U.S. Army, Directorate of Public Works
Planning & Environmental Branch
Attn: IMNE-MON-PWE, 173 Riverside Ave.
Fort Monmouth, NJ 07703

TRANSMITTAL

TO:
Gregory Zalaskus, Case Manager
John Prendergast, Technical Coordinator
NJ DEP
Bureau of Case Management
401 E. State St., 5th Fl, West Wing
PO Box 028
Trenton, NJ 08625-0028
Telephone Number: (609) 984-2065

FROM:
Douglas C. Guenther, DCG
Environmental Protection Specialist
Phone: 732-532-0986;
Fax: 732-532-6263; DSN: 992-0986
E-mail:
Douglas.Guenther@Mail1.Monmouth.Army.mil

DATE:
February 7, 2006

☐ URGENT ☑ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

SUBJECT:

Document Submittal (Hand Delivered at Meeting)

Attached Please Find:

(2) Copies (one each) of the Remedial Action Report for the 800, 700, and 400 Areas, October 2005, Final, prepared by Tetra Tech EM, Inc. including electronic copy on CD.

(2) Copies (one each) of the Remedial Investigation Report and Remedial Action Workplan, October 2005, Site 2567, Draft, prepared by Versar, Inc. including electronic copy on CD.

(2) Copies (one each) of the Remedial Investigation Report and Remedial Action Workplan, October 2005, Site 283, Draft, prepared by Versar, Inc including electronic copy on CD.

Greg and John,

These will be discussed during the February 7, 2006 meeting.

FINAL

Remedial Investigation Report
And
Remedial Action Workplan

Site 2567

U. S. Army Garrison Fort Monmouth
Fort Monmouth, New Jersey

Directorate of Public Works

October 28, 2005

Versar INC.
4700 South McClintock Drive, Suite 150
Tempe, Arizona 85282

Contract No. DACA 51-02-D-0007
Delivery Order No. 2V28

United States Army
Fort Monmouth, New Jersey

Remedial Investigation Report
And
Remedial Action Workplan

Site 2567

Fort Monmouth, New Jersey

October 28, 2005

PREPARED BY:

4700 SOUTH MCCLINTOCK DRIVE, SUITE 150
TEMPE, ARIZONA 85282

October 28, 2005

VERSAR PROJECT NO. 110571.0571.428

TABLE OF CONTENTS

EXECUTIVE SUMMARY i
1.0 INTRODUCTION **1-1**
1.1 Objectives 1-1
1.2 Report Organization 1-1
2.0 SITE BACKGROUND AND ENVIRONMENTAL SETTING **2-1**
2.1 Site Location and Description 2-1
2.2 Site Background 2-1
2.2.1 UST Closure and Site Assessment for Two USTs – Weston, 1993 2-2
2.2.2 UST Closure and Site Assessment for Four USTs – Weston, 1995 2-2
2.2.3 Groundwater Monitoring Letter Report – ATC, 2000 2-4
2.2.4 SI Report for Main Post and Charles Wood Areas – Weston, 1995 2-5
2.3 Site Conditions 2-5
2.4 Environmental Setting 2-6
2.4.1 Regional and Local Geology 2-6
2.4.2 Hydrogeology 2-7
2.4.3 Soils 2-9
2.4.4 Topography and Surface Drainage 2-10
3.0 SITE ACTIVITIES **3-1**
3.1 Well Installation 3-1
3.2 Groundwater Monitoring Well Sample Collection Activities 3-1
3.3 Geoprobe® Groundwater Sample Collection Activities 3-2
3.4 Groundwater Depth Measurements 3-3
3.5 Slug Testing Procedures 3-3
3.6 Sensitive Receptors and Well Search 3-4
4.0 SITE PHYSICAL CHARACTERISTICS **4-1**
4.1 Lithology 4-1
4.2 Groundwater Flow 4-2
4.2.1 Groundwater Flow Direction 4-2
4.2.2 Hydrogeologic Properties 4-2
5.0 SITE CHEMICAL CHARACTERIZATION **5-1**
5.1 Groundwater Monitoring Well Sampling Results 5-1
5.1.1 VOCs 5-2
5.1.2 SVOCs 5-2
5.1.3 Pesticides and PCBs 5-2
5.1.4 TAL Metals 5-2
5.2 Groundwater Geoprobe® Point Sampling Results 5-3
5.3 Potential COCs 5-3
5.4 Dissolved Oxygen 5-5
6.0 CONTAMINANT MIGRATION AND GROUNDWATER USE DESIGNATION **6-1**
6.1 Groundwater Model Development 6-1
6.1.1 Conceptual Site Model 6-1
6.1.2 Biodegradation Model 6-2
6.1.3 Dissolved Oxygen 6-2

6.1.4 Model Results and Discussion 6-4
6.2 Sensitive Receptor Survey Results 6-4
6.3 Aquifer Classification 6-5
6.4 Contaminant Migration Summary 6-6
7.0.CONCLUSIONS AND RECOMMENDATIONS 7-1
8.0.REMEDIAL ACTION WORKPLAN 8-1
8.1 Description of Remedial Action Alternatives 8-1
8.2 Comparative Analysis of Remedial Action Alternatives 8-2
8.3 Approach 8-3
8.3.1 Monitored Natural Attenuation 8-3
8.3.2 Quality Assurance Project Plan (QAPP) 8-3
8.3.3 Remedial Action Progress Report (RAPR) 8-4
8.4 Project Organization 8-4
8.5 Site Specific Health and Safety Plan (SSHSP) 8-4
8.6 Effectiveness Analysis and Certification 8-4
8.7 Remedial Action Costs 8-4
9.0.REFERENCES 9-1

TABLES

Table 2-1 Well Construction Summary
Table 3-1 Groundwater Monitoring Well Sample Collection Summary
Table 3-2 Geoprobe® Sample Collection Summary
Table 3-3 Groundwater Elevation Summary
Table 4-1 Data for Geologic Cross-Section A-A'
Table 4-2 Data for Geologic Cross-Section A-A"
Table 4-3 Slug Testing Results
Table 5-1 Groundwater Sampling Results from Monitoring Wells
Table 5-2 Groundwater Sampling Results from Geoprobe® Points
Table 5-3 Determination of Contaminants of Concern
Table 5-4 Aquifer Dissolved Oxygen
Table 6-1 tert-Butyl Alcohol Biodegradation at Monitoring Well 2567-MW1
Table 6-2 Well Search Summary

FIGURES

Figure 2-1 Site Location Map
Figure 2-2 Site Layout
Figure 2-3 Monitoring Well Location Map
Figure 2-4 Former UST Location Map
Figure 2-5 Underground Utilities Location Map
Figure 2-6 Geologic Map of New Jersey
Figure 2-7 Outcrop and Thickness of the Composite Confining Unit
Figure 2-8 Soil Map of Monmouth County, New Jersey
Figure 4-1 Geologic Cross-Section Location Map
Figure 4-2 Geologic Cross-Section A-A'
Figure 4-3 Geologic Cross-Section A-A"
Figure 4-4a Groundwater Elevation Contour Map (Aug 00)
Figure 4-4b Groundwater Elevation Contour Map (Nov 00)
Figure 4-4c Groundwater Elevation Contour Map (Feb 01)
Figure 4-4d Groundwater Elevation Contour Map (May 01)
Figure 4-4e Groundwater Elevation Contour Map (Aug 01)
Figure 4-4f Groundwater Elevation Contour Map (Nov 01)
Figure 4-4g Groundwater Elevation Contour Map (Feb 02)
Figure 4-4h Groundwater Elevation Contour Map (May 02)
Figure 4-4i Groundwater Elevation Contour Map (Aug 02)
Figure 4-4j Groundwater Elevation Contour Map (Oct 02)
Figure 4-4k Groundwater Elevation Contour Map (Feb 03)
Figure 4-4l Groundwater Elevation Contour Map (Jun 03)
Figure 4-4m Groundwater Elevation Contour Map (Jul 03)
Figure 4-4n Groundwater Elevation Contour Map (Oct 03)
Figure 4-4o Groundwater Elevation Contour Map (Jan 04)
Figure 5-1 Groundwater Sampling Results for TBA
Figure 6-1 Geologic Cross-Section B-B'
Figure 6-2 Predicted TBA Concentration at 2567-MW1
Figure 6-3 Predicted Area Impacted by TBA
Figure 6-4 Domestic and Irrigation Wells

APPENDICES

Appendix A	UST Closure and Site Assessment Report for Building 2567, Tanks 33 and 46, Roy F. Weston, Inc., October 1993
Appendix B	UST Closure and Site Assessment Report, Building 2567, UST Nos. 42, 43, 44, and 45, Roy F. Weston, Inc., January 1995
Appendix C	Results of Long-Term Groundwater Monitoring Program, Fort Monmouth, Building 2567, Fort Monmouth, New Jersey (Letter Report), ATC Associates, May 2000
Appendix D	Site Investigation Report – Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, Roy F. Weston, Inc., December 1995
Appendix E	Boring Logs and Monitoring Well Construction Records
Appendix F	Site Photographs
Appendix G	Groundwater Monitoring Well Sampling Laboratory Data Sheets
Appendix H	Geoprobe® Point Groundwater Sampling Laboratory Data Sheets
Appendix I	Slug Test Analyses and Raw Data
Appendix J	Sensitive Receptor Survey
Appendix K	Well Survey and Well Search

EXECUTIVE SUMMARY

VERSAR, Inc. (Versar) has been contracted by the United States (U.S.) Army Garrison, Fort Monmouth (Fort Monmouth), Directorate of Public Works (DPW), Fort Monmouth, New Jersey to prepare a Remedial Investigation Report (RIR) to document groundwater conditions at Site 2567 located in the Charles Wood Area of Fort Monmouth, New Jersey. This report addresses the remedial investigation activities performed at this site to investigate groundwater conditions from April 1997 through January 2004.

Site 2567 is located in the Charles Wood Area of Fort Monmouth at the northwest corner of the intersection between Laboratory Road and Hope Road. Site 2567 includes Building 2567, two gasoline dispenser islands located within the paved area south of the building and dense wooded areas located to the south and east of the site. Two Underground Storage Tank (UST) closure reports have been submitted to the New Jersey Department of Environmental Protection (NJDEP) regarding USTs in the immediate vicinity of Site 2567.

The *UST Closure and Site Assessment Report for Building 2567, Tanks 33 and 46* documents the removal of two single-wall steel USTs located adjacent to Building 2567. Both USTs were cleaned, excavated and disposed of in accordance with NJDEP requirements. Following the removal of these two USTs, eight post-excavation samples were collected and contained either non-detectable concentrations of total petroleum hydrocarbons (TPHC) or concentrations below NJDEP criteria.

The *UST Closure and Site Assessment Report, Building 2567, UST Nos. 42, 43, 44 and 45* documented the removal of four gasoline USTs located under the pavement approximately 30 feet southeast of Building 2567. The DPW notified the NJDEP of a fuel leak at the Charles Wood gas station, Building 2567. Four groundwater monitoring wells were installed in 1991 to evaluate groundwater quality in the area of Building 2567 and the USTs at Site 2567 were closed. Approximately 936 cubic yards of soil were excavated from the area surrounding the USTs and the dispenser island. Twelve post-excavation soil samples were collected and TPHC was either not detected or detected below NJDEP criteria.

Subsequently, 23 post-excavation soil samples were collected from the side walls of the excavation area. TPHC was detected in one sample at a concentration below the NJDEP criteria. There were three volatile organic compounds (VOCs) detected at concentrations exceeding the NJDEP Residential Direct Contact Soil Cleanup Criteria (RDCSCC) or the Impact to Groundwater Soil Cleanup Criteria (IGWSCC). Lead was detected below the RDCSCC. There is no IGWSCC for lead.

In response to the suspected discharges from the USTs following the reported release, four groundwater monitoring wells were installed near Building 2567. These wells were sampled in five sampling rounds; during these sampling events, four VOCs and lead were detected in groundwater samples collected at Site 2567 at concentrations greater than the Class II-A NJDEP Ground Water Quality Criteria (GWQC).

The Weston 1995 report identified methyl tert-butyl ether (MTBE) and tert-butyl alcohol (TBA) as groundwater contaminants without GWQC; however, both MTBE and TBA exceeded the interim GWQC in multiple rounds of sampling at one monitoring well.

In September 1994, one additional monitoring well (2567-MW5) was installed by the DPW to determine if contaminants were present downgradient from the site.

In a letter report submitted to the NJDEP in May 2000, ATC Associates (ATC) reported sampling results collected during six sampling events from five monitoring wells at Site 2567. During these six sampling events, five VOCs (benzene, MTBE, TBA, xylenes and methylene chloride) were detected in groundwater samples collected at Site 2567 at concentrations greater than their respective GWQC. Lead was not detected in any of the groundwater samples collected during this time at concentrations exceeding its GWQC.

As presented in the Weston SI Report, several natural and anthropogenic factors contribute to the wide range in concentrations of metals in soils, which further impact the concentration of metals in groundwater. A low-flow sampling methodology was proposed for use by the DPW and accepted by the NJDEP to assess the impact of entrained sediments on the dissolved phase metals concentrations at Fort Monmouth.

Fort Monmouth DPW has conducted a Remedial Investigation (RI), including a groundwater sampling program, to define the areal extent of potential pollutants and evaluate impacts to groundwater in the vicinity of Site 2567. Remedial investigation activities were performed from September 1991 and continued through January 2004.

A total of seven monitoring wells comprise the quarterly groundwater monitoring program conducted by the DPW. The location of each well was strategically selected by the DPW to monitor possible contaminants released into the groundwater due to the former USTs located at Building 2567. As part of the remedial investigation, a quarterly groundwater sampling program was conducted from April 1997 through January 2004 at Site 2567.

During the 30 quarterly sampling events, four VOCs and five Target Analyte List (TAL) metals were detected in groundwater samples at concentrations above their respective NJDEP GWQC. Based on the magnitude of their exceedences, the frequency of their occurrences and their wide-ranging results, TBA is identified as the only contaminant of concern (COC) at Site 2567.

The RI also included the collection of groundwater depth measurements, the performance of slug tests, evaluation of aquifer classification, and the completion of a sensitive receptor survey. The results of the field and laboratory investigations were used to develop a conceptual site model to provide a basis for the development of a three-dimensional computer model. The conceptual site model considers the site-specific topography, groundwater recharge, groundwater flow conditions and the geologic formations present at the site. A MODFLOW computer model was used to simulate

groundwater flow and contaminant transport beneath the site. The purpose of developing a groundwater model for Site 2567 was to predict the migration of the identified COC in site groundwater.

In order to evaluate groundwater conditions and potential COC migration at Site 2567, additional Geoprobe® groundwater samples were collected from seven points in February and April 2004.

Continued groundwater monitoring of TBA degradation through monitored natural attenuation (MNA) at Site 2567 is recommended. Additional groundwater quality sampling results obtained from samples collected at Site 2567 will be reported in Remedial Action Progress Reports (RAPRs).

A Limited Action with MNA alternative has been selected for Site 2567 based upon its appropriateness for remediation of the low residual concentrations of COCs present at the site in a time frame acceptable to the NJDEP. MNA is very low in cost, and the low COC concentrations do not require a permanent alternative. This alternative is equally effective in the short- and long-term, is easy to implement and can attain compliance with NJDEP criteria. Historical groundwater sampling results at Site 2567 indicate that natural attenuation is occurring at an acceptable rate.

Quarterly groundwater sampling at Site 2567 will include groundwater samples collected from monitoring wells 2567-MW1, 2567-MW2, 2567-MW3, 2567-MW4, 2567-MW5, 2567-MW6 and 2567-MW7. The groundwater samples collected from these monitoring wells will be analyzed by the FMETL for VOCs plus 15 TICs.

The remedial action will be performed in accordance with the Quality Assurance Project Plan (QAPP) and the site-specific Health and Safety Plan (SSHSP) for Site 2567.

1.0 INTRODUCTION

Versar has been contracted by the U.S. Army Garrison, Fort Monmouth DPW, Fort Monmouth, New Jersey to prepare an RIR to document groundwater and surface water conditions at Site 2567 located at the Charles Wood Area, Fort Monmouth, New Jersey. This report addresses the remedial investigation activities performed at this site to investigate groundwater conditions from April 1997 through January 2004.

1.1 Objectives

The objectives of this RIR are to define aquifer chemical and physical characteristics and to determine the requirement for further remedial activities at Site 2567. The remedial investigation was conducted in accordance with NJDEP *Technical Requirements for Site Remediation* (February 2003), NJAC 7:26E, et seq.

The remedial investigation and subsequent preparation of the RIR encompassed the following:

- Characterization of groundwater quality over time through quarterly groundwater sampling events conducted from April 1997 through January 2004.
- Characterization of groundwater quality during two low-flow sampling events in May and June 2001.
- Comparison of the results of the groundwater quality monitoring programs with the NJDEP GWQC.
- Investigation and evaluation of the designated aquifer uses, the associated aquifer classification, and the appropriate groundwater quality criteria for groundwater resources beneath Site 2567. The NJDEP Ground Water Quality Standards (GWQS) specify the quality criteria and designated uses for groundwater and also contain technical and general policies to ensure that the designated uses can be adequately protected.
- Performance of slug tests during August 2001 to characterize the hydraulic conductivity and groundwater flow regime.
- Development of a biodegradation model for potential COCs at Site 2567 based on hydrogeologic data, field investigation programs and technical research to evaluate the migration of potential COCs beneath the site.
- Formulation of recommendations for future remedial investigation or remedial action alternatives for Site 2567.

1.2 Report Organization

This report is organized to minimize repetition. **Section 2.0** provides background information and a general description of Site 2567 located in the Charles Wood Area of Fort Monmouth. **Section 3.0** describes and summarizes the field activities conducted at Site 2567 including groundwater and surface water sampling and aquifer testing. **Section 4.0** presents the physical characterization of Site 2567, including lithology and groundwater conditions. Chemical characterization is presented in **Section 5.0**, which includes groundwater sampling results and the determination of potential COCs. **Section 6.0** discusses the potential for contaminant migration in the vicinity of Site 2567 and

presents groundwater modeling involving COCs. Conclusions and recommendations are presented in **Section 7.0**. The references used to prepare this report are listed in **Section 8.0**.

2.0 SITE BACKGROUND AND ENVIRONMENTAL SETTING

The following sections describe the site background and environmental setting of the area surrounding Fort Monmouth and Site 2567. Included is a description of the site location, background, current conditions and environmental setting.

2.1 Site Location and Description

Fort Monmouth is located in the central-eastern portion of New Jersey in Monmouth County, approximately 45 miles south of New York City and 70 miles northeast of Philadelphia (**Figure 2-1**). In addition to the Main Post, the installation includes two subposts, the Charles Wood Area and the Evans Area. The Main Post encompasses approximately 630 acres and is bounded by State Highway 35, Parkers Creek, Lafetra Brook, the New Jersey Transit Railroad and a residential area to the south. The post was established in 1918 during World War I (WWI) as an Army Signal Corps training center. The Main Post currently provides administrative, training, and housing support functions, as well as providing many of the community facilities for Fort Monmouth. The primary mission of Fort Monmouth is to provide command, administrative, and logistical support for Headquarters, U.S. Army Communications and Electronics Command (CECOM). CECOM is a major subordinate command of the U.S. Army Materiel Command (AMC) and is the host tenant at Fort Monmouth.

Site 2567 is located in the Charles Wood Area of Fort Monmouth at the northwest corner of the intersection between Laboratory Road and Hope Road (**Figure 2-2**). Site 2567 includes Building 2567, two gasoline dispenser islands located within the paved area south of the building and dense wooded areas located to the south and east of the site.

2.2 Site Background

In the early 1990s, the DPW developed a UST program for managing approximately 506 USTs located throughout the Fort Monmouth installation (Main Post, Charles Wood and Camp Evans areas). This program was created to work toward replacing the use of heating oil as a major energy source and to convert to natural gas. The DPW's approach involved installing new gas lines and new gas-fed boilers and removing the non-regulated (residential) USTs. Since 1990, approximately 97 percent of the aforementioned USTs at Fort Monmouth have been removed.

As part of the DPW's UST management program, two UST closure reports (October 1993 and January 1995) have been submitted to the NJDEP regarding USTs in the immediate vicinity of Site 2567. In addition to these two closure reports, the DPW submitted one letter report (May 2000) detailing the results of a long-term groundwater monitoring program for Site 2567. These three reports are presented in **Appendix A**, **Appendix B** and **Appendix C** and are discussed below.

In 1995, the DPW submitted a Site Investigation (SI) report to the NJDEP (Weston, 1995) for the Main Post and Charles Wood areas. Relevant sections of this SI report are presented in **Appendix D** and are discussed below in **Section 2.2.3**. The Weston SI report was incorporated into the discussion of COCs (**Section 5.2**) for Site 2567.

The groundwater monitoring program presented in this report includes the five wells originally installed as part of the closure of former USTs. The locations of these five monitoring wells and two additional wells installed during this remedial investigation are shown in **Figure 2-3**. A well construction summary is provided in **Table 2-1**. Monitoring well records are provided in **Appendix E**.

2.2.1 UST Closure and Site Assessment for Two USTs – Weston, 1993

According to the *UST Closure and Site Assessment Report for Building 2567, Tanks 33 and 46*, prepared by Weston for the DPW, October 1, 1993 (**Appendix A**), there were two single-wall steel USTs (USTs 33 and 46) located adjacent to Building 2567 (**Figure 2-4**). UST No. 33 was a 1,000-gallon No.2 fuel oil UST, and UST No. 46 was a 500-gallon waste oil UST. On December 31, 1991, both USTs were cleaned, excavated and disposed of in accordance with NJDEP requirements. No holes were noted in the USTs, and no potentially contaminated soils were observed surrounding the USTs. U.S. Department of Health (DEH) records indicate that UST No. 46 was never in use. Following the removal of these two tanks, eight post-excavation samples were collected and analyzed for TPHC. The eight soil samples contained either non-detectable concentrations of contaminants or concentrations below NJDEP subsurface cleanup criteria.

2.2.2 UST Closure and Site Assessment for Four USTs – Weston, 1995

According to the *UST Closure and Site Assessment Report, Building 2567, UST Nos. 42, 43, 44, and 45*, prepared by Weston for the DPW in January 1995 (**Appendix B**), there were four gasoline USTs (Nos. 42 through 45) located under the pavement approximately 30 feet southeast of Building 2567 (**Figure 2-4**). UST Nos. 42, 43 and 44 were single-walled steel 10,000-gallon unleaded gasoline USTs. UST No. 45 was a single-walled steel 6,000-gallon leaded gasoline UST.

In December 1989, the DPW notified the NJDEP of a fuel leak at the Charles Wood gas station, Building 2567 (Case No. 89-12-12-1442). In January 1990, a tightness test was conducted on the premium gasoline line, which tested tight. In January 1991, UST Nos. 42, 43 and 44 were tightness tested. UST Nos. 42 and 44 passed the UST system tightness test, although UST No. 43 failed this test (Case No. 91-8-27-1414). In response to the failed tightness test, UST No. 43 was placed out of service and four groundwater monitoring wells were installed in 1991 to evaluate groundwater quality in the area of Building 2567. The closure, remediation and construction of a new facility near Building 2567 were conducted by the DPW in 1993.

In February 1993, UST Nos. 42 through 45 were closed at Site 2567. During the closure, UST Nos. 42 through 45 were drained and removed along with associated piping. The subsurface evaluator did not observe any holes in any of these four USTs after they were removed from the ground. There was no sheen observed on groundwater during the UST removals. Based on visual observations of stained soils and screening with a PID, approximately 936 cubic yards of soil were excavated from the area surrounding the

USTs and the dispenser island (**Figure 2-4**). The excavation was extended to a maximum depth of 11 feet (where groundwater was encountered).

Soil Sampling
On February 2, 1993, four post-excavation samples were collected from the bottom and north side wall of the excavation and analyzed for TPHC. In addition, on February 8, 1994, eight post-excavation soil samples were collected from the east sidewall and also analyzed for TPHC. In these 12 post-excavation soil samples, TPHC was either not detected or detected below NJDEP soil cleanup criteria.

On February 24, 1993, 23 post-excavation soil samples were collected from the sidewalls of the excavation area and analyzed for TPHC, VOCs plus 15 tenatively identified compounds (TICs) and lead. The soil sampling results were compared to the NJDEP RDCSCC and IGWSCC.

TPHC was detected in one sample at a concentration below the NJDEP cleanup criteria. There were three VOCs detected in these 23 post-excavation soil samples at concentrations exceeding the RDCSCC or the IGWSCC. Benzene was detected at concentrations ranging from 1.8 mg/kg to 45 mg/kg. The IGWSCC for benzene is 1 mg/kg and the RDCSCC for benzene is 3 mg/kg. Ethylbenzene was detected at concentrations ranging from 120 mg/kg to 170 mg/kg. The IGWSCC for ethylbenzene is 100 mg/kg and the RDCSCC for ethylbenzene is 1000 mg/kg. Total xylenes were detected at concentrations ranging from 11.7 mg/kg to 1200 mg/kg. The IGWSCC for total xylenes is 10 mg/kg and the RDCSCC for total xylenes is 410 mg/kg. Lead was detected below the RDCSCC of 400 mg/kg at concentrations ranging from 7.77 mg/kg to 129 mg/kg. There is no IGWSCC for lead.

Appendix B includes these soil sampling results as presented in the 1995 Weston SI and Closure Report.

Groundwater Sampling
In response to the suspected discharges from the USTs following the reported release in 1989 and failed tightness test in 1991, four groundwater monitoring wells (2567-MW1, 2567-MW2, 2567-MW3 and 2567-MW4) were installed near Building 2567 in October 1991 (see **Table 2-1** and **Figure 2-3**). Soil boring logs and monitoring well records are contained in **Appendix E**. These wells were sampled in five sampling rounds (December 1991, October 1992, April 1993, February 1994, and March 1994). The groundwater samples that were collected during December 1991, October 1992, February 1994 and March 1994 were analyzed for VOCs plus 15 TICs. The groundwater samples that were collected during April 1993 were analyzed for semi-volatile organic compounds (SVOCs) plus 15 TICs.

During these sampling events, four VOCs (benzene, 1,2-dichloroethene, xylenes, and methylene chloride) and lead were detected in groundwater samples collected at Site 2567 at concentrations greater than the Class II-A NJDEP GWQC. There were no SVOCs detected in groundwater samples collected in April 1993 at concentrations

greater than the GWQC. Groundwater sampling results for wells 2567-MW1 through 2567-MW4, as presented in the 1995 Weston SI report, are included in **Appendix B**.

In the groundwater results tables included in the 1995 Weston SI report, Weston identified MTBE and TBA as groundwater contaminants without GWQC. As of December 2001, the NJDEP applies the interim groundwater quality criteria of 70 ug/L and 100 ug/L to MTBE and TBA, respectively. The exceedences of these interim criteria for the groundwater samples collected between December 1991 and March 1994 are discussed below.

MTBE was detected at concentrations exceeding the interim GWQC of 70 ug/L in four rounds of sampling collected at one monitoring well location (2567-MW1). Concentrations ranged from 650 ug/L (February 1994) to 2,200 ug/L (December 1991).

TBA was detected at concentrations exceeding the interim GWQC of 100 ug/L in three rounds of sampling collected at one monitoring well location (2567-MW1). Concentrations ranged from 470 ug/L (April 1993) to 5,400 ug/L (October 1992).

In the 1995 Weston SI and closure report, Weston presented two groundwater flow maps in addition to groundwater sampling results. These groundwater flow maps both show groundwater flow to the southeast. Weston also conducted an NJDEP well search to identify all irrigation, monitoring, domestic, industrial and public supply wells near Site 2567. The nearest domestic well was found to be 6,500 feet southeast of Site 2567.

In September 1994, one additional monitoring well (2567-MW5) was installed by the DPW to determine if contaminants were present downgradient from the site. Well 2567-MW5 is located southeast of the site on the eastern side of Hope Road (see **Table 2-1**, **Figure 2-3** and **Appendix E**). The results for groundwater samples collected at well 2567-MW5 were presented by ATC in the letter report discussed below.

2.2.3 Groundwater Monitoring Letter Report – ATC, 2000

In a letter report submitted to the NJDEP in May 2000 (**Appendix C**), ATC reported sampling results collected from five monitoring wells at Site 2567 (2567-MW1 through 2567-MW5). These groundwater samples were collected by the DPW during six quarterly sampling rounds between May 1995 and April 1997. In this letter report, ATC also presented one groundwater flow map that shows groundwater flow to the southeast. Groundwater sampling results for wells 2567-MW1 through 2567-MW5, as presented in the ATC letter report (May 2000), are included in **Appendix C**.

The groundwater samples collected at Site 2567 during May 1995, August 1995, November 1995, February 1996, and April 1997 were analyzed for VOCs plus 15 TICs and lead. The groundwater samples collected at Site 2567 during January 1997 were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and lead.

During these six sampling events, four VOCs (benzene, MTBE, xylenes and methylene chloride) were detected in groundwater samples collected at Site 2567 at concentrations

greater than the GWQC. The results of the groundwater sampling indicated that benzene concentrations decreased in monitoring well 2567-MW3 during the period addressed by the ATC letter report. Lead was not detected at concentrations exceeding the GWQC in any of the groundwater samples collected during this time.

In the groundwater results tables included in the ATC 2000 letter report, ATC identified TBA as a groundwater contaminant without an associated GWQC. As discussed above in **Section 2.2.2**, the NJDEP currently applies the interim groundwater quality criterion of 100 ug/L for TBA contamination in class II-A aquifers. In four sampling rounds (May 1995, August 1995, November 1995, and February 1996), TBA was detected above the groundwater criteria of 100 ug/L in groundwater samples collected at well 2567-MW1 at concentrations ranging from 780 ug/L to 930 ug/L.

2.2.4 SI Report for Main Post and Charles Wood Areas – Weston, 1995

Weston, as part of the SI of the Fort Monmouth military installation, conducted soil sampling, monitoring well installation and sampling and geophysical surveying. In addition to sampling of soil and groundwater at sites throughout the Main Post and Charles Wood areas of Fort Monmouth, Weston established background concentrations of chemical constituents in soil and groundwater for the Fort Monmouth installation, as reported in the 1995 Weston SI report. These background concentrations have been used by the DPW for comparing sampling results for native constituents of soil and groundwater.

As presented in the Weston SI Report, several natural and anthropogenic factors contribute to the wide range in concentrations of metals in soils, which further impact the concentration of metals in groundwater. Soils derived from the glauconitic sands contain abundant aluminum, calcium, potassium, iron, magnesium and manganese (among others), which are likely to be present at elevated concentrations in the groundwater, particularly when sediments are entrained in the collected groundwater samples. A low-flow sampling methodology was proposed for use by the DPW and accepted by the NJDEP to assess the impact of entrained sediments on the dissolved phase metals concentrations at the Main Post and Charles Wood areas of Fort Monmouth. Using a low-flow sampling methodology to reduce the presence of entrained sediment has generally yielded substantial reductions in the dissolved phase concentrations of metals, such as arsenic, antimony, beryllium, cadmium, chromium, cobalt, lead, mercury, selenium, silver, thallium and vanadium at Fort Monmouth sites. Significant decreases in the concentrations of metals characteristic of glauconitic sand also were observed. These included aluminum, barium, calcium, copper, iron, magnesium, manganese, nickel, potassium, sodium and zinc.

2.3 Site Conditions

Versar conducted a site walk-through in April 2004, to assess site conditions at Site 2567. The site consists of Building 2567, which is a convenience store and gasoline station, paved parking areas along the west, south, and east sides of the building, and two gasoline dispenser islands located within the paved area south of the building. There are

dense wooded areas located south and east of the site. Site 2567 photographs were taken during a site walk-through in 2001 and are included in **Appendix F**.

The gas station currently utilizes three double-fiberglass reinforced 10,000-gallon USTs to store gasoline (UST Nos. 81515-66, 81515-67, and 81515-68). These three USTs are located at the same approximate area as the former gasoline USTs (UST Nos. 81515-42 through 81515-45, shown in **Figure 2-4**). Underground utility lines at Site 2567, including gas, storm sewer and water are shown in **Figure 2-5**. There is also an abandoned sewer line in the vicinity of the former gasoline USTs. A swale runs parallel to Hope Road, and elevations of the base of the swale indicate that the swale may intersect groundwater in the vicinity of the site. Underground utilities and the swale may impact shallow groundwater flow at Site 2567, as discussed in **Sections 4.0** and **6.0** below.

2.4 Environmental Setting

The following is a description of the geological/hydrogeological setting of the area surrounding Site 2567. Included is a description of the regional geology of the area surrounding Fort Monmouth, as well as descriptions of the local geology and hydrogeology of the Charles Wood area.

2.4.1 Regional and Local Geology

Monmouth County lies within the New Jersey Section of the Atlantic Coastal Plain physiographic province. Site 2567 is located in what may be referred to as the Outer Coastal Plain subprovince, or the Outer Lowlands. The geologic map of New Jersey is provided as **Figure 2-6**.

In general, New Jersey Coastal Plain formations consist of a seaward-dipping wedge of unconsolidated deposits of clay, silt, sand and gravel. These formations typically strike northeast-southwest with a dip ranging from 10 to 60 feet per mile and were deposited on Precambrian and lower Paleozoic rocks (Zapecza, 1989). These sediments, predominantly derived from deltaic, shallow marine and continental shelf environments, date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

The formations record several major transgressive/regressive cycles and contain units, which are generally thicker to the southeast and reflect a deeper water environment. More than 20 regional geologic units are present within the sediments of the Coastal Plain. Regressive, upward coarsening deposits are usually aquifers (e.g., Englishtown and Kirkwood Formations and the Cohansey Sand), while the transgressive deposits act as confining units (e.g., the Merchantville, Marshalltown and Navesink Formations). The individual thickness for these units varies greatly (e.g., from several feet to several hundred feet). The Coastal Plain deposits thicken to the southeast from the Fall Line (e.g., a boundary zone between older, resistant rocks and younger, softer plain sediments) to greater than 6,500 feet in Cape May County (Brown and Zapecza, 1990).

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Main Post and Charles Wood areas. The Red Bank Sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member (Shrewsbury) of the Red Bank Sand is a yellowish-gray to reddish brown clayey medium-to-coarse-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski). The lower member (Sandy Hook) is a dark gray to black, medium-to-fine grained sand with abundant clay, mica and glauconite.

The Tinton Sand conformably overlies the Red Bank Sand and ranges from a clayey medium to very coarse-grained feldspathic-quartz and glauconite-sand to a glauconitic-coarse sand. The color varies from dark yellowish orange or light brown to moderate brown and from light olive to grayish olive. Glauconite may constitute 60 to 80 percent of the sand fraction in the upper part of the unit. The upper part of the Tinton Sand is often highly oxidized and iron oxide encrusted (Minard, 1969).

The Hornerstown Sand unconformably overlies the Red Bank Sand and dips to the southeast at 50 to 60 feet per mile. The Hornerstown Sand consists of dark green clayey glauconitic sand.

The Tertiary-age Kirkwood Formation and Vincentown Formations crop out approximately two miles south of the Main Post. The Vincentown Formation contains a lower member which is greenish-gray glauconitic sand and an upper member which ranges from sand to clayey limestone. The Kirkwood Formation consists of alternating layers of sand and clay. The Vincentown and Kirkwood Formations dip to the southeast at approximately 20 and 27 feet per mile, respectively (Jablonski, 1968).

Based on the interpretation of lithologic boring logs (**Appendix E**), the lithology of native material at Site 2567 consists of the Tinton Sand. Below Building 2567 and the surrounding paved areas exists asphalt and/or fill material overlying sedimentary layers of light green sand, dark brown/green clay with trace amounts of sand, and medium-fine sand. In the area of monitoring well 2567-MW5, there exists a slightly different progression consisting of brown fine sand overlying black, soft clay, followed by brown fine sand with trace amounts of silt, and finally gray medium sand intermixed with well-rounded gravel. Further discussion of the subsurface conditions is presented in **Section 4.0**.

2.4.2 Hydrogeology

Fort Monmouth lies in the Atlantic and Eastern Gulf Coastal Plain groundwater region. This groundwater region is underlain by undeformed, unconsolidated to semi-consolidated sedimentary deposits. The chemistry of the water near the surface is variable with low dissolved solids and high iron concentrations. The water chemistry in areas underlain by glauconitic sediments (such as Red Bank, Tinton and Hornerstown Sands) is dominated by calcium, magnesium, manganese, aluminum and iron. The sediments in the area of Fort Monmouth were deposited in fluvial-deltaic to near shore environments.

The water table aquifer in the Main Post and Charles Wood areas is identified as part of the "Composite Confining Unit," or minor aquifers. The minor aquifers include the Navesink formation, Red Bank Sand, Tinton Sand, Hornerstown Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation and the basal clay of the Kirkwood Formation. These geologic formations comprise a "Composite Confining Bed" for the Wenonah Mount Laurel Aquifer (Zapecza, 1984). Measured hydraulic conductivities for the Navesink Hornerstown Confining Unit, presented in Martin (1998) range from 0.0005 to 9 feet per day, with a geometric mean of 0.12 feet per day. The hydraulic conductivity of 0.12 feet per day is discussed in relation to Site 2567 in **Section 6.1.4**.

Wells installed in the Red Bank and Tinton Sands produce 2 to 25 gallons per minute (gpm) (Jablonski, 1968). Groundwater is typically encountered at the Charles Wood areas at shallow depths below ground surface (bgs) (2 to 9 feet bgs). Water in the surficial aquifer generally flows east toward the Atlantic Ocean.

As presented in **Figure 2-7**, Fort Monmouth is located within the outcrop area of the Composite Confining Unit (Martin, 1998), which also includes the Red Bank Sand, Tinton Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation and the basal clay of the Kirkwood Formation. The Composite Confining Unit is approximately 125 feet thick at Site 2567.

Based on a review of the NJDEP GWQS, January 7, 1993, Versar has determined that the site is underlain by a Class III-A aquifer. A formal presentation of this finding was made to the NJDEP on April 17, 2001. The primary designated use for Class III-A groundwater is the release or transmittal of groundwater to adjacent classification areas and surface water, as relevant. Secondary designated uses in Class III-A include any reasonable use. Further discussion of the Class III-A aquifer designation is presented in **Section 6.3**.

Shallow groundwater may be locally influenced within the Charles Wood Area by the following factors:

- Tidal influence (based on proximity to the Atlantic Ocean, rivers and tributaries)
- Topography
- Nature of the fill material within the Charles Wood Area
- Presence of clay and silt lenses in the natural overburden deposits
- Local groundwater recharge areas (e.g., streams, lakes)
- Roadways, utility conduits and stormwater culverts

Due to the fluvial nature of the overburden deposits (e.g., sand and clay lenses), shallow groundwater flow direction is best determined on a case-by-case basis. Groundwater in the vicinity of Site 2567 appears to be flowing in a south-southeast direction toward

Wampum Brook. Underground utilities may have a significant effect of diverting shallow groundwater flow.

2.4.3 Soils

According to the U.S. Department of Agriculture (USDA), Soil Conservation Service, Monmouth County Soil Survey (April 1989), the majority of the Main Post and Charles Wood areas is covered by urban land (**Figure 2-8**). The soil survey describes urban land as areas where concrete, asphalt, buildings, shopping centers, airports or other impervious surfaces cover 80 percent or more of the surface. In addition, the survey indicated that the natural subsurface soils have largely been replaced with artificial or foreign fill materials (developed land with disturbed soils).

The following soil series and classification units are mapped in the Charles Wood area:

- DoB Downer sandy loam (with 2 to 5 percent slopes)
- FrB Freehold sandy loam (with 2 to 5 percent slopes)
- FUB Freehold sandy loam/urban land complex (with 0 to 10 percent slopes)
- HUA Holmdel sandy loam/urban land complex (with 0 to 5 percent slopes)
- HV Humaquepts, frequently flooded
- KvA Kresson loam (with 0 to 5 percent slopes)
- PT Pits, Sand and Gravel
- Sn Shrewsbury sandy loam
- UA Udorthents, smoothed and
- UD Udorthents – urban land complex (with 0 to 3 percent slopes).

The Downer series soils are well-drained soils that are found on uplands and terraces. The soils are formed in acid, silty coastal plain sediments. The Freehold soils are also well drained and are formed in acid, loamy, coastal plain sediments that, by volume, are 1 to 10 percent glauconite and are found on uplands. The Holmdel series consists of moderately well drained or somewhat poorly drained soils on uplands. The soils are formed in acid, loamy, coastal plain sediments that have 2 to 10 percent glauconite by volume. The Humaquepts soils are somewhat poorly- to very poorly- drained soils that are formed in stratified, sandy, or loamy sediments of fluvial origins. The Humaquepts soils are located on the floodplain and are subject to flooding several times each year. The Kresson loam is a nearly level to gently sloping soil and is somewhat poorly drained. The soil is found on low divides and in depressions. The Shrewsbury soils consist of poorly drained soils or upland flats that are formed in acid, loamy, coastal sediments that, by volume, are as much as 10 percent glauconite. The Udorthents soils have been altered by excavation or filling activities, and may include old sand and gravel pits. In filled areas, these soils consist of loamy material that is more than 20 inches thick. The filled areas include floodplain, tidal marshes and areas with moderately well-drained to very poorly drained soils. Some Udorthent soils contain concrete, asphalt, metal and glass. The soils in the vicinity of Site 2567 are classified as HUA – Holmdel sandy loam/urban land complex (**Figure 2-8**).

2.4.4 Topography and Surface Drainage

Over the last 80 years, the natural topography of Fort Monmouth has been altered by excavation and filling activities by the military. Site 2567 is located just north of the floodplain of Wampum Brook. The USGS topographic map (**Figure 2-1**) shows that the land surface of the site is relatively flat at an elevation of approximately 30 to 35 feet above mean sea level (amsl).

Surface water bodies in the vicinity of the Charles Wood area include two unnamed tributaries of Wampum Brook. Wampum Brook is joined by several unnamed tributaries east of Charles Wood, prior to becoming Wampum Lake. Wampum Lake discharges into Mill Creek, which flows toward the Main Post area.

The U.S. Fish and Wildlife Service (FWS) National Wetland Inventory Long Branch quadrangle maps indicate the presence of several wetlands at the Main Post and Charles Wood areas. In the Charles Wood Area, the golf course lake is classified as palustrine open water/unknown bottom, and several areas along the unnamed tributaries of Wampum Brook are classified as palustrine forested wetland, broad-leaved deciduous.

Based on the topography of the area, surface water runoff is expected to flow in a southeast direction toward Wampum Brook. There are drainage ditches that run south along Hope Road and an unnamed tributary/drainage ditch that crosses underneath Hope Road about 200 feet south of Site 2567 (**Figure 2-2**). Surface water runoff from Site 2567 drains into these ditches and flows south then east into Wampum Brook.

3.0 SITE ACTIVITIES

Fort Monmouth DPW has conducted remedial investigation activities, including a groundwater sampling program, to define the areal extent of potential pollutants and evaluate impacts to groundwater in the vicinity of Site 2567. Remedial investigation activities were performed from September 1991 and continued through January 2004. These activities were managed by the Fort Monmouth DPW and performed by TECOM-Vinnell Services (TVS). The details of remedial investigation activities that occurred at Site 2567 are described in the following sections.

3.1 Well Installation

A total of seven monitoring wells (2567-MW1, 2567-MW2, 2567-MW3, 2567- MW4, 2567-MW5, 2567-MW6 and 2567-MW7) comprise the quarterly groundwater monitoring program conducted by the DPW. Four of the seven monitoring wells were installed in 1991 during the Weston UST closure and site investigation (2567-MW1, 2567-MW2, 2567-MW3 and 2567- MW4). One monitoring well was installed in 1994 (2567-MW5), and the remaining two monitoring wells were installed by the DPW in 2000 (2567-MW6 and 2567-MW7). **Figure 2-3** shows the locations of the monitoring wells at Site 2567. The location of each well was strategically selected by the DPW to monitor possible contaminants released into the groundwater due to the former USTs located at Building 2567. Monitoring well construction details are discussed in **Section 2.2** and are summarized in **Table 2-1**. Well boring logs and monitoring well records are provided in **Appendix E**.

3.2 Groundwater Monitoring Well Sample Collection Activities

As part of the remedial investigation, a quarterly groundwater sampling program was conducted from April 1997 through January 2004 at Site 2567. Sampling activities were performed in accordance with the *Fort Monmouth Standard Sampling Operating Procedure* (December 1997). Laboratory analyses of the samples collected at Site 2567 were conducted at the Fort Monmouth Environmental Testing Laboratory (FMETL), a New Jersey certified laboratory (Certification No. 13461).

Five monitoring wells (2567-MW1, 2567-MW2, 2567-MW3, 2567-MW4 and 2567-MW5) were sampled during 28 quarterly sampling rounds (#1 through #28) from June 1997 through January 2004 and two low-flow sampling rounds for a total of 30 quarterly sampling rounds. Monitoring wells 2567-MW6 and 2567-MW7 were incorporated later into the quarterly monitoring program and sampled from August 2000 through January 2004 during 15 quarterly rounds (#14 through #28) and two low-flow sampling rounds for a total of 17 quarterly sampling rounds.

During the 30 rounds of quarterly groundwater sampling, a total of 240 groundwater samples, including 31 duplicate samples, 33 field blanks and 28 trip blanks for quality assurance/quality control (QA/QC), were collected from seven monitoring wells. The quarterly groundwater samples were analyzed as follows:

- During quarterly sampling rounds #1 and #2, VOCs plus 15 TICs were analyzed using USEPA Method 624, and lead was analyzed using USEPA Method 3113B.
- During quarterly sampling rounds #3 and #4, VOCs plus 15 TICs were analyzed using USEPA Method 624, SVOCs plus 25 TICs were analyzed using USEPA Method 625, pesticides and PCBs were analyzed using USEPA Method 608, and TAL metals were analyzed using USEPA Methods 3120B and 3112B.
- During quarterly sampling rounds #5 through #28, VOCs plus 15 TICs were analyzed using USEPA Method 624, and lead was analyzed using USEPA Method 3120B.

A summary of the groundwater sampling activities, including rounds, well IDs, sample IDs, sample locations, collection/analysis date, analytical parameters and analysis method, is provided in **Table 3-1**. Copies of the groundwater sampling chain-of-custody forms and laboratory data sheets are presented in **Appendix G**. The results of the quarterly groundwater monitoring program for Site 2567 are discussed in **Section 5.1**.

In consideration of the potential benefits of the low-flow sampling procedure, two additional rounds of low-flow sampling (Low Flow #1 and Low Flow #2) were conducted from May 31-June 5, 2001 and June 25-26, 2001. A total of 21 samples, including three duplicate samples and four field blanks, were collected and analyzed for TAL metals to determine whether elevated metal concentrations observed in the groundwater samples at Site 2567 are due to entrained soil particles (e.g., high turbidity) rather than dissolved phased groundwater constituents. The samples were analyzed by the FMETL for TAL metals utilizing USEPA Methods 3120B and 3112B.

Sampling equipment was thoroughly decontaminated before and after each use, in accordance with the *Fort Monmouth Standard Sampling Operating Procedure* (1997). Following collection, groundwater samples were immediately placed in laboratory-supplied bottleware. The sample containers were labeled, sealed, packed in ice and transported to the FMETL under proper chain-of-custody procedures.

During each of the monitoring well sampling rounds, aquifer chemical characteristics including pH, temperature, conductivity and dissolved oxygen (DO) were recorded prior to sampling. These chemical characteristics are included in the laboratory data packages. The aquifer DO data is presented in **Section 5.3** and discussed in **Section 6.1.3**.

3.3 Geoprobe® Groundwater Sample Collection Activities

In order to evaluate groundwater conditions and potential COC migration at Site 2567, additional Geoprobe® groundwater samples were collected from seven points in February and April 2004. Sampling activities were performed in accordance with the *Fort Monmouth Standard Sampling Operating Procedure* (December 1997). Laboratory analyses of the samples collected at Site 2567 were conducted at the Fort Monmouth Environmental Testing Laboratory (FMETL), a New Jersey certified laboratory (Certification No. 13461).

Seven Geoprobe® sampling points (GW-1, GW-2, GW-3, W-1, W-2, W-3 and W-4) were sampled during two separate sampling events in February and April 2004.

During the two Geoprobe® groundwater sampling events, a total of 13 groundwater samples, including two duplicate samples, two field blanks and two trip blanks for QA/QC, were collected from the seven Geoprobe® points. The Geoprobe® groundwater samples were analyzed as follows:

- During the two sampling events, VOCs plus 15 TICs were analyzed using USEPA Method 624.

A summary of the Geoprobe® groundwater sampling activities, including Geoprobe® point IDs, sample IDs, sample locations, collection/analysis date, analytical parameters and analysis method, is provided in **Table 3-2**. Copies of the groundwater sampling chain-of-custody forms and laboratory data sheets are presented in **Appendix H**. The results of the Geoprobe® groundwater sampling program for Site 2567 are discussed in **Section 5.2**.

Sampling equipment was thoroughly decontaminated before and after each use, in accordance with the *Fort Monmouth Standard Sampling Operating Procedure* (1997). Following collection, groundwater samples were immediately placed in laboratory-supplied bottleware. The sample containers were labeled, sealed, packed in ice and transported to the FMETL under proper chain-of-custody procedures.

3.4 Groundwater Depth Measurements

During each of the 30 groundwater monitoring rounds conducted at Site 2567 (including the 28 quarterly monitoring rounds and two low-flow rounds), measurements of the depth to water in each of the monitoring wells was recorded with an accuracy of 0.01 feet. These depth to groundwater measurements, recorded from 1997 through 2004, are presented in **Table 3-2**. The groundwater elevation at each well was calculated by subtracting the measured depth to groundwater from the elevation of the top of the well casing. Groundwater elevations are discussed in **Section 4.2**.

3.5 Slug Testing Procedures

Versar conducted slug testing on the seven monitoring wells located at Site 2567 from August 16-17, 2001. The slug testing was performed to estimate hydrogeologic properties of the shallow soils at this site, such as groundwater velocity, to be used for contaminant transport modeling. The equipment used to perform the slug testing included a Hermit Environmental Data logger (Model 1000C), a 10-psi pressure transducer, and a 4-foot long, 3.5-inch diameter PVC slug.

The slug testing was performed by first recording the depth to top of groundwater, then placing the slug and the transducer into the well and allowing the water to equilibrate to a level close to the original water level. The new water level was set as the reference water level for the data logger during the slug test. The slug was then removed and the data logger recorded the changing water level with time. The collected data were then

transferred to a personal computer for later review and reduction. The raw data are presented in **Appendix H**. The results are discussed in **Section 4.2**.

3.6 Sensitive Receptors and Well Search

Searches were conducted using various databases and historical information to identify receptors and groundwater wells that may be potentially affected by Site 2567. An Offsite Receptor Report (dated October 24, 2001) was prepared for Site 2567 by Environmental Data Resources, Inc. (EDR).

In addition, a search of the comprehensive well database maintained by the NJDEP Well Permitting and Regulations Section of the Bureau of Water Allocation was performed to identify groundwater wells that may potentially be affected by Site 2567. The search was performed for a one-mile radius surrounding the central point of the Site 2567. A copy of the sensitive receptor survey is provided in **Appendix I** and a copy of the well search summary is provided in **Appendix J**. The results of the sensitive receptor survey and well search are discussed in **Section 6.2**.

4.0 SITE PHYSICAL CHARACTERISTICS

The following sections represent the findings of the geologic and hydrogeologic characterization program for Site 2567. These sections include a detailed discussion of the physical properties of the unconsolidated soil, bedrock and groundwater underlying the study area. Groundwater elevation data collected by the DPW from August 1997 through January 2004 are presented in this section.

4.1 Lithology

The lithology encountered at Site 2567 consists primarily of fill material, fine sand, silt and clay. Two geologic cross-sections were prepared for Site 2567. Geologic cross-sections A-A' and A-A" were based on the boring logs of monitoring wells in the study area, as well as the locations of underground utilities. The geologic cross-section location map is included as **Figure 4-1**. Geologic cross-sections A-A' (**Figure 4-2**) and A-A" (**Figure 4-3**) include the locations of underground utility pipes, which are discussed with regard to shallow groundwater flow in **Section 4.2**. The data used to construct the geologic cross-sections are presented in **Table 4-1** (data for geologic cross-section A-A') and **Table 4-2** (data for geologic cross-section A-A"). The boring logs used to create the cross-section data tables are contained in **Appendix E**.

Geologic cross-section A-A' (**Figure 4-2**) depicts the profiles for monitoring wells 2567-MW2, 2567-MW3 and 2567-MW6, and portrays the following lithology:

- In the boring of well 2567-MW2, asphalt was encountered at the surface, fill was encountered below the asphalt to a depth of 5 feet bgs, and native material was encountered beneath the fill to a depth of 13 feet bgs.
- In the boring of well 2567-MW3, asphalt was encountered at the surface, fill was encountered below the asphalt to a depth of 4 feet bgs, and native material was encountered beneath the fill to a depth of 13 feet bgs.
- In the boring of well 2567-MW6, topsoil and roots were encountered at the surface, fill was encountered below the topsoil to a depth of 5 feet bgs, and native material was encountered to a depth of 13 feet bgs.
- There are three underground utilities shown in geologic cross-section A-A’: a 15-inch diameter sewer line, a 6-inch diameter gas line and a 15-inch diameter abandoned storm sewer line.
- Geologic cross-section A-A’’ portrays an area of fill with unknown depth beneath the gas line, sanitary sewer line and abandon storm sewer line.

Geologic cross-section A-A" (**Figure 4-3**) depicts the profiles for monitoring wells 2567-MW2, 2567-MW1 and 2567-MW5, and portrays the following lithology:

- As in geologic cross-section A-A' (**Figure 4-2**), the boring of well 2567-MW2, asphalt was encountered at the surface, fill was encountered below the asphalt to a depth of 5 feet bgs, and native material was encountered beneath the fill to a depth of 13 feet bgs.

- In the boring of well 2567-MW1, asphalt was encountered at the surface, fill was encountered below the asphalt to a depth of 4 feet bgs, and native material was encountered to a depth of 13 feet bgs.
- In the boring of well 2567-MW5, native material was encountered from the surface to a depth of 12.5 feet bgs. As an approximation, geologic cross-section A-A" shows approximately 1 foot of topsoil and roots at the surface of well 2567-MW5, which was not noted on the boring log for this well.
- There are three underground utilities shown on geologic cross-section A-A": one 6-inch diameter gas line, one gas main of unknown diameter, and one 36-inch diameter water main.
- Geologic cross-section A-A" portrays an area of fill with unknown depth and lithology surrounding the gas and water mains.
- Geologic cross-section A-A'' portrays an area of fill with a depth of at least 11 feet in the vicinity of the former UST excavation.

The fill encountered in the well borings at Site 2567 consisted of light orange to brown sand (Unit 3). Fill with unknown lithology is portrayed in **Figure 4-2** as Unit 7. The native material encountered in the well borings at Site 2567 consisted of poorly sorted brown, green, gray and black clay, silt and fine sand (Units 4, 5, 8, 9 and 10) and gray sand with well-rounded gravel (Unit 11). The lithology of the native material is consistent with the Tinton Sand (Minard, 1969).

4.2 Groundwater Flow

During the groundwater sampling program at Site 2567 (28 quarterly rounds and two low-flow rounds), groundwater was encountered in monitoring wells at Site 2567 at depths ranging from 1.69 to 12.20 feet bgs (**Table 3-2**) with a slight gradient toward the southeast. Groundwater velocity and flow directions were predicted based on the interpretation of groundwater contour maps and slug test results, as well as the locations of underground utilities.

4.2.1 Groundwater Flow Direction

In accordance with NJAC 7:26E-3.13(d)2iv, 15 groundwater contour maps were generated for Site 2567 based on groundwater depth measurements from the seven monitoring wells collected on August 22, 2000 (**Figure 4-4a**), November 1, 2000 (**Figure 4-4b**), February 9, 2001 (**Figure 4-4c**), May 8, 2001 (**Figure 4-4d**), August 15, 2001 (**Figure 4-4e**), November 9, 2001 (**Figure 4-4f**), February 26, 2002 (**Figure 4-4g**), May 28, 2002 (**Figure 4-4h**), August 20, 2002 (**Figure 4-4i**), October 28, 2002 (**Figure 4-4j**), February 26, 2003 (**Figure 4-4k**), June 11, 2003 (**Figure 4-4l**), July 22, 2003 (**Figure 4-4m**), October 7, 2003 (**Figure 4-4n**) and January 16, 2004 (**Figure 4-4o**). The groundwater underlying Site 2567 appears to be consistently flowing to the southeast. No significant variations in groundwater flow conditions were observed in these 15 groundwater contour maps. Groundwater elevation data are presented in **Table 3-2**.

4.2.2 Hydrogeologic Properties

As discussed in **Section 3.4**, Versar conducted slug testing of the seven monitoring wells located at Site 2567 on August 16 and 17, 2001. Versar used the computer software

Aquifer Test by Waterloo Hydrogeologic, Inc. (version 3.01, 2001) to reduce the slug testing data using the Bouwer-Rice methodologies. Data plots generated by Aquifer Test are presented in **Appendix I**. A summary of the calculated conductivity values is presented in **Table 4-3**.

The calculated conductivity values range from 18.8 feet/day at monitoring well 2567-MW7 to 35.6 feet/day at Monitoring Well 2567-MW3, with a calculated geometric mean of 25.9 feet/day. The variability in the range of hydraulic conductivities is associated with the shallow depth of the monitoring wells, partial penetration into the aquifer, and the heterogeneous nature of the fill material at the site. The geometric mean is used instead of the average due to the commonly high range of variability in hydraulic conductivity measurements.

The groundwater flow gradient for the site was estimated using the groundwater elevation data discussed above. The groundwater flow gradient (*i*) is calculated by measuring the distance (L) between two equipotential lines h_1 and h_2 using the following equation:

$$i = \frac{h_1 - h_2}{L}$$

The groundwater flow gradient for Site 2567, based on water level measurements collected on February 9, 2001, was estimated at approximately 0.02 feet per foot.

Groundwater flow velocity (v) in the vicinity of the site was then estimated using the groundwater flow gradient (*i*), an estimated hydraulic conductivity (K) for the surrounding soils based on the slug test results, and an assumed porosity (α) in the following equation:

$$v = \frac{Ki}{\alpha}$$

The hydraulic conductivity (K) used in the calculation, 25.9 feet/day, is the geometric average based on the results of slug testing performed by Versar (**Table 4-3**). The porosity (α) was estimated at 40% using average values for silt and sands (Heath, USGS, 1989). The groundwater velocity for the site was calculated to be approximately 1.3 feet per day (equal to 475 feet per year) based on the February 9, 2001 water-level measurements.

As discussed in **Section 2.4.2**, Site 2567 is located within the Composite Confining Unit, which typically has low hydraulic conductivities (on the order of 0.1 feet per day). However, the higher hydraulic conductivity of the subsurface materials at Site 2567 is most likely due to the following factors:

- Fill material is present in the subsurface throughout much of Site 2567.
- The native material (Tinton Sand Formation) found at Site 2567, is comprised of relatively coarse material such as sand and sub-rounded quartz gravel.

5.0 SITE CHEMICAL CHARACTERIZATION

This section includes a discussion of the chemical characterization of Site 2567 based on the various samples collected and analyzed including 30 rounds of monitoring well samples. DPW personnel were responsible for the collection of samples during this remedial investigation. Sample analyses were performed by the FMETL. In **Section 5.1**, groundwater sampling results are presented for samples collected between April 1997 and January 2004. In **Section 5.1**, the groundwater sampling results are evaluated and one potential COC (TBA) is identified for groundwater at Site 2567.

5.1 Groundwater Monitoring Well Sampling Results

This section presents a discussion of the results of laboratory analyses performed for the 30 rounds (28 quarterly rounds plus two additional low-flow rounds) of groundwater samples collected from April 1997 through January 2004 from the seven monitoring wells (2567-MW1 through 2567-MW7) at Site 2567. The groundwater samples were collected and analyzed for VOCs plus 15 TICs, SVOCs plus 15 TICs, pesticides, plychlorinated biphenyls (PCBs) and TAL metals. The two low-flow sampling rounds were conducted from May 31 to June 5, 2001 and June 25-26, 2001 using a low-flow groundwater sampling technique for TAL metals.

As discussed in **Section 2.4.2**, Fort Monmouth is underlain by a Class III-A aquifer. The appropriate groundwater quality criteria for Class III-A are the criteria for the most stringent classification for vertically or horizontally adjacent ground waters that are not Class III-A (NJAC 7:9-6.7e). The NJDEP criteria used for comparison of groundwater analytical results were the higher of the Practical Quantitation Limits (PQLs) and the NJDEP GWQC for Class II-A aquifers (NJAC 7:9-6, Table 1). Analytes detected in groundwater monitoring well samples at Site 2567 at concentrations above the NJDEP criteria are bold and highlighted in **Table 5-1**. The chain-of-custody forms for groundwater monitoring well samples and laboratory data sheets are provided in **Appendix G**. **Figure 5-1** shows the distribution of COCs for groundwater within the area of Site 2567.

During the 30 quarterly sampling events, a total of 11 VOCs were detected in site groundwater. Four VOCs were detected at concentrations that exceeded their respective GWQC in at least one sample, while the remaining seven VOCs were detected below their respective GWQC. A total of four SVOCs were detected in site groundwater below their respective GWQC. No pesticides or PCBs were detected in site groundwater. A total of 18 metals were detected in site groundwater. Five metals were detected at concentrations that exceed their respective GWQC in at least one sample, while the remaining 13 metals were detected below their respective GWQC.

Analytes exceeding the NJDEP GWQC in groundwater samples are presented in four subsections: VOCs (**Section 5.1.1**), SVOCs (**Section 5.1.2**), Pesticides and PCBs (**Section 5.1.3**) and TAL Metals (**Section 5.1.4**).

5.1.1 VOCs

During 30 quarterly sampling events, four VOCs were detected in site groundwater at concentrations that exceeded their respective GWQC in at least one sample.

Benzene was detected at concentrations exceeding the GWQC of 1.0 ug/L in eight rounds of sampling collected at two monitoring well locations. Concentrations ranged from 1.03 ug/L (sampling round #8) in 2567-MW3 to 39.4 ug/L (sampling round #2) in 2567-MW1.

Methylene chloride was detected at concentrations exceeding the interim GWQC of 2.0 ug/L in one round of sampling collected at one monitoring well location at a concentration of 25 ug/L (sampling round #2) in 2567-MW3.

MTBE was detected at concentrations exceeding the interim GWQC of 70 ug/L in four rounds of sampling collected at two monitoring well locations. Concentrations ranged from 81.82 ug/L (sampling round #5) in 2567-MW3 to 240 ug/L (sampling round #2) in 2567-MW1.

TBA was detected at concentrations exceeding the interim GWQC of 100 ug/L in 24 rounds of sampling collected at two monitoring well locations. Concentrations ranged from 143.26 ug/L (sampling round #7) in 2567-MW1 to 1,488.05 ug/L (sampling round #2) in 2567-MW1.

5.1.2 SVOCs

No SVOCs were detected above the appropriate GWQC at the site.

5.1.3 Pesticides and PCBs

No pesticides or PCBs were detected at the site.

5.1.4 TAL Metals

During 30 quarterly sampling events, five metals were detected in groundwater samples at concentrations above their respective NJDEP GWQC.

Aluminum was detected at concentrations exceeding the GWQC of 200 ug/L in four rounds of sampling collected at five monitoring well locations. Concentrations ranged from 261 ug/L (sampling round #4) in 2567-MW2 to 1,832 ug/L (sampling round #4) in 2567-MW3.

Iron was detected at concentrations exceeding the GWQC of 300 ug/L in four rounds of sampling collected at seven monitoring well locations. Concentrations ranged from 3,290 ug/L (Low Flow #2) in 2567-MW6 to 19,180 ug/L (sampling round #3) in 2567-MW5.

Lead was detected at concentrations exceeding the GWQC of 10 ug/L in seven rounds of sampling collected at two monitoring well locations. Concentrations ranged from 10.7 ug/L (sampling round #1) to 49.5 ug/L (sampling round #23) in 2567-MW5.

Manganese was detected at concentrations exceeding the GWQC of 50 ug/L in four rounds of sampling collected at six monitoring well locations. Concentrations ranged from 56.4 ug/L (sampling round #4) in 2567-MW5 to 271.8 ug/L (sampling round #3) in 2567-MW2.

Sodium was detected at concentrations exceeding the GWQC of 50,000 ug/L in two rounds of sampling collected at two monitoring well locations. Concentrations ranged from 51,200 ug/L (Low Flow #1) in 2567-MW1 to 98,300 ug/L (Low Flow #1) in 2567-MW2.

5.2 Groundwater Geoprobe® Point Sampling Results

This section presents a discussion of the results of laboratory analyses performed for the groundwater samples collected in February and April 2004 from the seven Geoprobe® points (GW-1, GW-2, GW-3, W-1, W-2, W-3 and W-4) at Site 2567. The groundwater samples were collected and analyzed for VOCs plus 15 TICs.

As discussed in **Section 2.4.2**, Fort Monmouth is underlain by a Class III-A aquifer. The appropriate groundwater quality criteria for Class III-A are the criteria for the most stringent classification for vertically or horizontally adjacent ground waters that are not Class III-A (NJAC 7:9-6.7e). The NJDEP criteria used for comparison of groundwater analytical results were the higher of the PQLs and the NJDEP GWQC for Class II-A aquifers (NJAC 7:9-6, Table 1). Analytes detected in Geoprobe® point groundwater samples at Site 2567 at concentrations above the NJDEP criteria are bold and highlighted in **Table 5-2**. The chain-of-custody forms for groundwater Geoprobe® point samples and laboratory data sheets are provided in **Appendix H**. **Figure 5-1** shows the distribution of COCs for groundwater within the area of Site 2567.

During the one sampling event, a total of two VOCs, MTBE and TBA, were detected in site groundwater at concentrations below their respective GWQC in at least one sample.

5.3 Potential COCs

In order to determine the contaminants of concern at Site 2567, the first step was to identify exceedences of the NJDEP criteria. These exceedences are presented in **Section 5.1** and **Section 5.2** above and in **Table 5-1** and **Table 5-2**. There were several factors that were used to eliminate or identify analytes as COCs. These factors include the magnitude and frequency of the exceedences, comparisons to low-flow sampling results (for metals only) and comparisons to established background concentrations. **Table 5-3** summarizes the process used to identify contaminants of concern at Site 2567.

There were four VOCs (benzene, methylene chloride, MTBE and TBA) that were detected in groundwater at concentrations exceeding the GWQC. Of the four VOCs detected above the NJDEP GWQC, three are considered to be uncharacteristic (benzene, MTBE and TBA), as discussed below:

- Benzene has not been detected in monitoring wells at Site 2567 above its NJDEP criteria of 1.0 ug/L since May 1999 and it has not been detected at all in monitoring wells since July 1999. Benzene was not detected in any of the Geoprobe® points. Although benzene was identified as a contaminant at Site 2567 in the 1995 Weston SI and closure report, due to the magnitude and frequency of its exceedences, benzene is no longer considered to be a COC.
- Methylene chloride exceeded the NJDEP criteria of 3.0 ug/L in only one groundwater monitoring well sample collected at Site 2567 since April 1997 and is therefore not considered to be a COC.
- MTBE has not been detected in groundwater samples at Site 2567 at concentrations exceeding its GWQC since June 1998. MTBE was not detected in any of the Geoprobe® points at concentrations exceeding its GWQC. Although MTBE was identified as a contaminant at Site 2567 in the 1995 Weston SI and closure report, due to the magnitude and frequency of its exceedences, MTBE is no longer considered to be a COC.
- TBA was detected above the NJDEP criteria of 100 ug/L during 23 rounds of sampling conducted at monitoring well 2567-MW1. TBA was also detected above the NJDEP criteria of 100 ug/L during one round of groundwater sampling at monitoring well 2567-MW3 (in August 1997). TBA was detected in one of the seven Geoprobe® points at a concentration below its GWQC. Based on these results, TBA is determined to be a COC at Site 2567.

There were no SVOCs detected at concentrations exceeding the GWQC, and therefore no SVOCs are considered COCs at Site 2567. In addition, there are no pesticides or PCBs considered to be COCs at Site 2567 because none were detected in groundwater samples at the site.

There were five metals that were detected in site groundwater at concentrations exceeding the NJDEP GWQC (aluminum, iron, lead, manganese and sodium). The specific exceedences and the identification of each of these metals as a potential contaminant of concern are discussed below. As presented in the Weston SI Report (1995), several natural and man-made factors contribute to the wide range in concentrations of metals in soils, which further impact the concentration of metals in groundwater. Soils derived from the glauconitic sands contain abundant aluminum, calcium, potassium, iron, magnesium and manganese (among others), which are likely to be present at elevated concentrations in the groundwater, particularly when sediments are entrained in the collected groundwater samples. A low-flow sampling methodology was proposed for use by the DPW and accepted by the NJDEP to assess the impact of suspended sediments on the dissolved phase metals concentrations at the site. Using a low-flow sampling methodology to reduce the presence of suspended sediment yielded substantial reductions in the dissolved phase concentrations of metals, particularly for the constituents regarded as “non-native” (e.g., arsenic, antimony, beryllium, cadmium, chromium, cobalt, lead, mercury, selenium, silver, thallium, vanadium). Significant decreases in the concentrations of naturally occurring metals have been observed when the low-flow sampling procedure was used prior to analysis, including the results for aluminum, barium, calcium, copper, iron, magnesium, manganese, nickel, potassium,

sodium and zinc. However, the native metal constituents (e.g., those indigenous to the soil types present at Fort Monmouth) were consistently present in the groundwater, even when the low-flow sampling methodology was employed.

The five different metals that were detected in site groundwater at concentrations exceeding the NJDEP GWQC are distinguished into background and non-native metals. The indigenous metals are compared to the Main Post Maximum Background Concentrations (MBC) identified in the Weston SI Report (1995), which are presented in **Tables 5-1** and **5-3**. The non-native metals are discussed in relation to the NJDEP GWQC only.

Of the five metals detected in site groundwater that exceed the NJDEP cleanup criteria, four metals (aluminum, iron, manganese and sodium) are common background constituents in Monmouth County soils. The water chemistry in areas underlain by glauconitic sediments (such as Red Bank, Tinton and Hornerstown Sands) is dominated by calcium, magnesium, manganese, aluminum and iron. Elevated concentrations of these metals are routinely observed in groundwater samples collected at Fort Monmouth. In consideration of these facts, the groundwater analytical results for these eight metals were compared to their respective MBCs of 121,000 ug/L (aluminum), 431,000 ug/L (iron), 331 ug/L (manganese), and 21,500 ug/L (sodium). Aluminum, iron and manganese are not considered to be COCs because these metals did not exceed their respective MBC. Sodium is not considered to be a COC due to the proximity of Site 2567 to sea water.

There was one non-native metal that exceeded its GWQC (lead). Lead is not considered to be a COC at Site 2567 because there were only seven exceedences of NJDEP criteria in groundwater samples collected at two monitoring well locations.

Two separate rounds of sampling (May 31 to June 5, 2001, and June 25-26, 2001) were performed during the groundwater sampling program using the low-flow groundwater sampling technique as discussed in **Section 3.2.1**. This technique was used to determine if the detected metal concentrations observed in the groundwater samples are a function of entrained sediments suspended in the groundwater during the course of well purging and sampling activities, or an accurate representation of dissolved phase aquifer/groundwater conditions. Since the five metals detected above the GWQC at Site 2567 were not considered to be COCs through other reasons (as discussed above), the low-flow sample results do not affect the determination of the COCs.

Based on the magnitude of the exceedences, the frequency of occurrences and the wide-ranging results, one VOC (TBA) is identified as potential COC at Site 2567 and is given further consideration with regard to contaminant migration potential in **Section 6.0** of this RIR. No other potential COCs were identified at Site 2567.

5.4 Dissolved Oxygen

During each of the monitoring well sampling rounds, the DO of the groundwater was recorded prior to sampling. The average DO ranged from 1.85 mg/L in well 2567-MW7

to 3.31 in well 2567-MW5. The aquifer DO measurements for groundwater sampling rounds between April 1997 and January 2004 are shown in **Table 5-4**. The DO measurements are included in the laboratory data packages. The aquifer DO is discussed in more detail in **Section 6.1.3**.

6.0 CONTAMINANT MIGRATION AND GROUNDWATER USE DESIGNATION

As discussed above, there was one identified COCs in groundwater at Site 2567: TBA. The possible migration and degradation of this COC is discussed below.

Section 6.1 presents a groundwater model that addresses TBA biodegradation and migration at Site 2567. Predictions for the migration and change in TBA concentration over time are based on the most recent groundwater sampling results for TBA at Site 2567 and published biodegradation rates for TBA in groundwater. These model results are presented graphically and in tabular form.

Following the discussion of the groundwater migration model for Site 2567, **Section 6.2** presents the results of the sensitive receptor survey. A discussion of appropriate aquifer classification is provided in **Section 6.3**. The findings of the contaminant migration model and groundwater use designation are summarized in **Section 6.4**.

6.1 Groundwater Model Development

The parameters used in the groundwater flow model were based on Fort Monmouth survey data, published literature covering the hydrogeology of the region, as well as field measurements of groundwater elevation at the site (discussed in **Section 4.2**). A biodegradation spreadsheet model was used to predict the decay and contaminant transport of TBA at Site 2567. The biodegradation model incorporates the effects of horizontal groundwater flow, biodegradation and retardation.

6.1.1 Conceptual Site Model

Land surface at the Charles Wood Area is mostly flat with some moderate slopes, with elevation ranging from 20 feet amsl in the northeast to 60 feet amsl in the southwest. Site 2567 is located approximately 200 feet north of an unnamed tributary/drainage to Wampum Brook (**Figure 2-2**), which flows eastward into Wampum Brook. The USGS topographic map (**Figure 2-1**) shows that the land surface of the site is relatively flat with an elevation of approximately 30 feet amsl. Surface water runoff from Site 2567 is likely to flow south along Hope Road and into the unnamed tributary to Wampum Brook identified in **Figure 2-2**.

As discussed in **Section 2.4.1**, the geologic formations that outcrop at the Charles Wood Area of Fort Monmouth include the Tinton and Red Bank Sands, as well as the Hornerstown Formation. These formations, along with the Navesink Formation, are part of the Composite Confining Unit that overlies the Wenonah-Mount Laurel Aquifer (Zapecza, 1990). A cross section of the New Jersey Coastal plain that shows these formations is presented in **Figure 6-1.**

As discussed in **Section 4.1**, the lithology encountered at Site 2567 consists primarily of fill material, fine sand, silt and clay. The well borings in the paved area of Site 2567 (2567-MW1 through 2567-MW4) encountered fill with a maximum depth ranging from 4

to 9 feet bgs. The fill consisted of light orange and light green sand. The native material encountered in the well borings consisted of brown, green and black clay, silt and fine sand, as well as gray sand with well-rounded gravel. The lithology of the native material is consistent with the Tinton Sand (Minard, 1969).

As discussed in **Section 4.2**, groundwater was encountered in the seven monitoring wells at Site 2567 at depths ranging from 1.69 to 12.20 feet bgs. The groundwater underlying Site 2567 appears to be consistently flowing to the southeast with a gradient of approximately 0.02 feet per foot.

6.1.2 Biodegradation Model

A Microsoft Excel spreadsheet (**Table 6-1**) was used to predict the biodegradation and migration of TBA at Site 2567. The biodegradation model incorporates the effects of horizontal groundwater flow, first-order biodegradation and retardation. The results of this biodegradation model are discussed with respect to possible offsite migration of the TBA at Site 2567. The model results were used to explain groundwater sample results for the one identified COC at Site 2567.

As discussed in **Section 5.1**, TBA was detected in well 2567-MW1 during 23 of the 30 rounds of sampling at concentrations in excess of the NJDEP criteria of 100 ug/L at concentrations ranging from 143.26 ug/L to 1,488.05 ug/L. In one round of sampling (sampling round #5), TBA was detected below the NJDEP criteria of 100 ug/L in well 2567-MW1 at a concentration of 95.63 ug/L. TBA was also detected above the NJDEP criteria of 100 ug/L in well 2567-MW3 in only one round (940 ug/L in sampling round #2). Due to the infrequent occurances of TBA in well 2567-MW3, the biodegradation model does not address TBA contamination at this well. TBA was not detected in the other five wells sampled during the 30 rounds of groundwater samples collected and analyzed from Site 2567.

Due to the lack of a decreasing trend in the TBA detections in well 2567-MW1, a site-specific decay rate for TBA was not calculated. Instead, the first-order, aerobic decay constant of 0.0019 (1/day) was obtained from published results (high value listed in Howard, 1991) and used in the model. This published decay constant corresponds to a half-life of 365 days.

6.1.3 Dissolved Oxygen

The aerobic biodegradation of the COCs at Site 2567 is justified based on analysis of the DO observed during monitoring well sampling at Site 2567. During each sampling event at each well, DO was recorded while the wells were being purged. **Table 5-4** shows the DO measurements for the monitoring wells at Site 2567 during sampling events between April 1997 and January 2004.

Aerobic respiration is the first reaction in an aerobic environment that contains microorganisms capable of biodegradation (Wiedemeir, 1999). Once the available DO is depleted and anaerobic conditions dominate the interior regions of the organic contaminant plume, anaerobic microorganisms can utilize other electron acceptors in the

following order of preference: nitrate, manganese, iron (III), sulfate and finally, carbon dioxide. As each electron acceptor being utilized for biodegradation becomes depleted, the next most preferable electron acceptor is utilized. Each successive redox couple provides less energy to the microorganism.

Aerobic degradation requires the presence of DO. If the subsurface environment becomes devoid of oxygen, the rate of aerobic biodegradation will typically be limited by oxygen supply rather than by nutrient concentration. For anaerobic biodegradation the microbial competition ultimately will determine the dominant process, but the dominant process can vary both temporally and spatially. Therefore, either iron (III) reduction, sulfate reduction or methanogenesis may dominate depending on seasonal variations in concentrations of DO and sulfate.

Using stoichiometry, a utilization factor can be developed showing the ratio of the oxygen consumed to the mass of DO consumed in the biodegradation reactions. Similarly, utilization factors can be developed to show the ratio of the mass of metabolic by-products (such as ferrous iron) that are generated to the mass of dissolved organic degraded in the biodegradation reactions. When the available electron acceptor/by-product concentrations are divided by the appropriate utilization factor, an estimate of the biodegradation capacity of the ground water flowing through the source zone and plume can be developed as follows:

Biodegradation Capacity (mg/L) =

{(Average Upgradient Electron Acceptor Concentration) -
(Minimum Plume Zone Electron Acceptor Concentration)} / Utilization Factor

The upgradient well used in the calculation of Biodegradation Capacity is well 2567-MW2. The plume zone is assumed to be located in the vicinity of well 2567-MW1. The following utilization factors and site biodegradation capacity, based on the degradation of benzene, MTBE and TBA, are calculated for Site 2567:

Contaminant of Concern	Upgradient Well	Average Upgradient Dissolved Oxygen (mg/L)	Plume Zone Well	Minimum Plume Zone Dissolved Oxygen (mg/L)	Utilization Factor	Site Biodegradation Capacity (mg/L)
Aerobic Biodegeradation of Benzene: $C_6H_6 + 7.5O_2 \rightarrow 6CO_2 + 3H_2O$						
Benzene	2567-MW2	4.04	2567-MW3	1.00	3.08	0.98
Aerobic Biodegeradation of MTBE: $C_5H_{12}O + 7.5O_2 \rightarrow 5CO_2 + 6H_2O$						
MTBE	2567-MW2	4.04	2567-MW3	1.00	2.73	1.11
Aerobic Biodegeradation of TBA: $C_4H_{10}O + 6O_2 \rightarrow 4CO_2 + 5H_2O$						
TBA	2567-MW2	4.04	2567-MW1	1.40	0.385	6.85

The highest concentration of TBA detected at well 2567-MW1 (in February 2001) was 1,488.05 ug/L (=1.48805 mg/L). Based on the calculations presented in the preceding table and on site observations, groundwater has enough biodegradation capacity to degrade dissolved-phase TBA, if aerobic reactions are occurring at Site 2567.

6.1.4 Model Results and Discussion

The TBA biodegradation model parameters and results for well 2567-MW1 is presented in **Table 6-1**. At monitoring well 2567-MW1, the initial TBA concentration was measured to be 1,488.05 ug/L on February 9, 2001. This concentration led to a predicted time of 3.9 years for compliance with the NJDEP criteria (100 ug/L). The migration distance of TBA from well 2567-MW1 is predicted to be 1,800 feet. The predicted TBA concentration at well 2567-MW1 is shown in **Figure 6-2**. **Figure 6-3** displays the area that is estimated to be impacted by future TBA migration.

The model predictions for TBA do not match observations of TBA concentrations in groundwater at Site 2567. If the TBA contamination will migrate approximately 1,800 feet in 3.9 years, as predicted in the biodegradation model, TBA should have already migrated to one of the three downgradient monitoring wells 2567-MW5, 2567-MW6 or 2567-MW7. However, TBA was not detected in any of these three monitoring wells in any of the sampling rounds presented in this RIR (see **Table 5-1**), and was also not detected in samples collected at well 2567-MW5 between May 1995 and April 1997. Additionally, TBA was not detected in six of seven groundwater Geoprobe® sampling points. Therefore, it appears that no significant migration of TBA has occurred at Site 2567.

6.2 Sensitive Receptor Survey Results

The sensitive receptor survey was completed by performing two tasks: an Offsite Receptor Report and an NJDEP well record search.

Offsite Receptor Report

An Offsite Receptor Report (dated October 24, 2001) was prepared for Site 2567 by EDR of Southport, Connecticut. A copy of the Offsite Receptor Report, identifying sensitive receptors in the area, is provided in **Appendix J**.

The Offsite Receptor Report indicates that there are seven schools and one daycare facility located within a one-mile of Site 2567. The seven schools were located between ½ and 1 mile from Site 2567. The day care facility is located approximately ½ mile south of Site 2567 and approximately ¼ mile south of Wampum Brook.

Well Record Search

A search of the comprehensive well database maintained by the NJDEP Well Permitting and Regulations Section of the Bureau of Water Allocation was performed by Versar to identify groundwater wells that may be potentially affected by contaminant migration at Site 2567. The search was performed for a one-mile radius surrounding the central point of Site 2567.

The well records obtained during the Well Search are provided in **Appendix K** and are summarized in **Table 6-2**. The wells designated for domestic or irrigation uses are presented in **Figure 6-4**. The migration distance of 1,800 feet, which is discussed above, was used as a basis for comparison. There were no domestic wells identified by records within 1,800 feet of Site 2567 with the following exception (though actual water use and physical presence were not verified):

NJDEP Permit #2919540
Permit Date: 11/9/87
Location: N40°17'33" W74°04'53"
Depth of well: 200 feet
Approximate distance from site: 1,400 feet (southwest)

Due to the significant distance of this one sensitive receptor to Site 2567, as well as the south to southeasterly groundwater flow direction from Site 2567, the concern for this groundwater receptor is minimal. The probability that any well in the vicinity of the site is being used for consumptive purposes is low, thus minimizing health-based risks associated with ingestion. Therefore, no sensitive receptors are likely to be impacted by the presence of COCs in the groundwater beneath Site 2567.

6.3 Aquifer Classification

Upon review of the NJDEP Groundwater Quality Standards (NJAC 7:9-6), January 7, 1993, Site 2567 is found to be underlain by a Class III-A aquifer. The primary designated use for Class III-A ground water is the release or transmittal of groundwater to adjacent classification areas and surface water, as relevant. Secondary designated uses in Class III-A include any reasonable uses. For an area to be classified as a Class III-A aquifer, the groundwater must meet the following characteristics:

- Class III-A groundwater includes portions of the saturated zones (that meet the criteria below) of the Woodbury Formation, Merchantville Formation, Marshalltown Formation, Navesink Formation, Hornerstown Formation, aquitard formations of the Potomac-Raritan-Magothy aquifer system and the Kirkwood aquifer system, portions of the glacial moraine and glacial lake deposits, and other geologic units having the characteristics of an aquitard. Class III-A areas have the following characteristics (NJAC 7:9-6.5):
  - The average thickness of a Class III-A aquifer must be at least 50 feet
  - Typical hydraulic conductivity of a Class III-A aquifer is approximately 0.1 feet/day or less
  - The aereal extent defined as Class III-A must be at least 100 acres.

The shallow aquifer at Site 2567 meets each of the four criteria listed above. These criteria are discussed below:

- The Charles Wood Area of Fort Monmouth is located within the outcrop area of the Composite Confining Unit (Martin, 1998), which includes the Red Bank Sand, Tinton Sand, Vincentown Formation, Manasquan Formation, Shark River

Formation, Piney Point Formation and the basal clay of the Kirkwood Formation (see **Section 2.4.2**). The thickness of the Composite Confining Unit in the vicinity of Fort Monmouth is approximately 125 feet.

- Published hydraulic conductivities (Martin, 1998) for the Composite Confining Unit yield a geometric mean of 0.12 feet per day, which is consistent with an aquitard.
- The Charles Wood area of Fort Monmouth is greater than 100 acres.

6.4 Contaminant Migration Summary

TBA was identified as the only COC in groundwater at Site 2567 using the NJDEP GWQC for Class II-A aquifers. The Class II-A criteria were used for comparison with site-specific data obtained from the various sampling rounds because the GWQS (NJAC 7:9-6.7e) state that the groundwater quality criteria to be used for Class III-A aquifers are the most stringent criteria associated with vertically or horizontally adjacent groundwaters that are not Class III-A.

Groundwater modeling and a sensitive receptor survey were conducted to determine whether groundwater from Site 2567 could impact surface water, off-site domestic wells and the subsurface groundwater aquifers. The groundwater modeling shows the impact of TBA migration in groundwater will be minimal. The results of the groundwater modeling (**Section 6.1**) and sensitive receptor survey (**Section 6.2**) are summarized below:

- The surface waters nearest to Site 2567 are the unnamed tributary to Wampum Brook and Wampum Brook. Using published biodegradation rates for TBA, the biodegradation model predicts that the TBA will degrade at well 2567-MW1 within 3.9 years. However, because downgradient sampling did not detect TBA, impacts to surface water are not expected.
- The sensitive receptor survey indicates that the closest downstream domestic well is approximately 1,400 feet southwest of the site, which is too far off the predicted groundwater flow direction to be impacted by COC migration.
- The risk of impacts to human health or to domestic animals associated with the ingestion of the TBA is negligible. It is unlikely that the well in the vicinity of the site is used for consumptive purposes due to poor overall water quality and low well yields. The potential migration of COCs from Site 2567 to this well in any reasonable time period is not possible.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Geologic publications show that Site 2567 is located within an aquitard (the Navesink-Hornerstown Confining Unit). The low hydraulic conductivity of the aquitard and the thickness of the aquitard at the site conform to the requirements of a Class III-A aquifer, as specified in the NJDEP GWQS (NJAC 7:9-6, January 7, 1993).

The analytical results for the groundwater samples collected between June 1997 and January 2004 indicate that TBA is a potential COC at Site 2567. The Class II-A criteria were used for comparison with site-specific data obtained from the various sampling rounds because the GWQS (N.J.A.C. 7:9-6.7e) state that the GWQC to be used for Class III-A aquifers are the most stringent criteria associated with vertically or horizontally adjacent groundwaters that are not Class III-A. Although previous investigations at Site 2567 did not address TBA as a potential COC, the current NJDEP interim groundwater criteria of 100 ug/L was used in reference to TBA concentrations in this RIR, and further remedial investigations should consider exceedences of this interim groundwater criteria.

Based on a review of the groundwater sampling results by the DPW and NJDEP, it appears that no significant migration of TBA has occurred at Site 2567. TBA degradation has the potential to occur at the site, based on the site results and the model. Continued monitoring of TBA degradation through monitored natural attenuation (MNA) is recommended at the site.

8.0 REMEDIAL ACTION WORKPLAN

The following sections present the RAWP for the remediation of the identified COC at Site2567: TBA. This RAWP was prepared in accordance with the applicable sections of NJDEP *Technical Requirements for Site Remediation* (February 2003), NJAC 7:26E, et seq. The remedial activities described in the RAWP will be performed by the DPW.

8.1 Description of Remedial Action Alternatives

Based on the findings of the previous RIR sections of this report, four general response actions were considered for implementation at Site 2567: No Action, Limited Action and MNA, *In-Situ* Active Restoration and *Ex-Situ* Active Restoration. Numerous remedial technologies were identified for each general response action, and process options of each remedial technology were screened based on effectiveness, implementability and cost. The remedial technology process options derived from the consideration of the general response actions yielded the following remedial action alternatives for further consideration: No Action, Limited Action with MNA, Limited Action with Enhanced Bioremediation and MNA and a Mass Extraction Pump-and-Treat System with MNA.

Alternative #1: No Action

A No Action alternative is evaluated to establish a baseline for the comparison of other remedial alternatives. Under this alternative, no remedial action will take place and there are no associated costs.

Alternative #2: Limited Action with MNA

A Limited Action with MNA alternative includes long-term monitoring of groundwater and surface water. No active treatment will be implemented to remove the COC from groundwater at the site under this alternative. Monitoring of groundwater and surface water for the natural attenuation of the COC will verify that the COC is naturally biodegrading and TBA levels are continually decreasing over time. This remedial action alternative will minimize capital and Operation and Maintenance (O&M) costs while effectively allowing COC concentrations to naturally degrade below action levels.

Alternative #3: Limited Action with Enhanced Bioremediation and MNA

A Limited Action with Enhanced Bioremediation and MNA alternative includes direct-push injections of Hydrogen Release Compound® (HRC®) and long-term monitoring of groundwater and surface water. The HRC® will be injected into the "hot-spot" areas of the site, accelerating the rate of biodegradation of the COC. Monitoring of groundwater and surface water for the natural attenuation of the COC will verify that the COC is naturally biodegrading and PCE levels are continually decreasing over time. This remedial action alternative has low capital costs and virtually zero O&M costs while effectively enhancing and accelerating the degradation of COC concentrations to below action levels.

Alternative #4: Mass Extraction Pump-and-Treat System with MNA

A Mass Extraction Pump-and-Treat System with MNA alternative includes powered machinery that actively pumps contaminated groundwater to an above-ground remediation facility and long-term monitoring of groundwater and surface water. The Mass Extraction Pump-and-Treat System degrades contamination levels in the above-ground facility and often returns the treated water to a nearby surface water body. Monitoring of groundwater and surface water for the natural attenuation of the COC will verify that the COC is naturally biodegrading and TBA levels are continually decreasing over time. This remedial action alternative typically requires extensive O&M costs, as well as high capital costs for equipment and site preparation.

8.2 Comparative Analysis of Remedial Action Alternatives

Each of the above alternatives was evaluated against a standard set of criteria, such as protection of human health and the environment, compliance with the NJDEP, short- and long-term effectiveness, permanence, reduction of toxicity, mobility or volume through treatment, implementability and cost.

Alternative #1: A No Action alternative takes no actions to eliminate, reduce or control exposure pathways, provides no short- or long-term effectiveness or permanence and does not comply with NJDEP criteria. This alternative is not appropriate for remediating COCs under current conditions at Site 2567.

Alternative #3: Limited Action with Enhanced Bioremediation and MNA alternatives are becoming increasingly popular due to their extremely low capital costs and non-existent O&M costs and their aggressive treatment of contaminant plumes. Not only are these remedial alternatives low in cost and active treatments, they are easily implemented, very effective in the short-term, not permanent and are accepted by the NJDEP. However, due to the low residual concentrations of COCs present at Site 2567, this alternative would not significantly impact COC levels at the site.

Alternative #4: A Mass Extraction Pump-and-Treat System with MNA is one of the most widely used groundwater remediation technologies. This remedial alternative is a very aggressive treatment approach with long-term effectiveness and permanence; however, this alternative is also difficult to implement, has low short-term effectiveness, is high is cost and often experiences unforeseen difficulties relating to the sorption of COCs to soil particles. The molecular nature of groundwater contaminants allows them to sorb to soil particles, which prevents the COCs from being effectively pumped out of the ground for treatment. Greater capital costs combined with protracted O&M costs, plus the high incidence of unexpected treatment difficulties and marginal efficiency, often lead to total project costs that exceed the initial estimates by an order of magnitude. Due to the low residual COC concentrations at Site 2567, this approach is not of appropriate cost and remediation strength for success at the site.

Alternative #2: A Limited Action with MNA alternative has been selected for Site 2567 based upon its appropriateness for remediation of the low residual concentrations of COCs present at the site in a time frame acceptable to the NJDEP. MNA is very low in

cost, and the low COC concentrations do not require a permanent alternative. This alternative is equally effective in the short- and long-term, is easy to implement and can attain compliance with NJDEP criteria. Historical groundwater sampling results at Site 2567 indicate that natural attenuation is occurring at an acceptable rate. The specifics of the MNA remedial action are discussed below.

8.3 Approach

The following sections provide details of the approach the DPW will use to perform this remedial action.

8.3.1 Monitored Natural Attenuation

The long-term monitoring program at Fort Monmouth includes semi-annual groundwater monitoring and quarterly surface water sampling at strategic locations. Continued groundwater and surface water monitoring at Site 2567 is recommended.

Quarterly groundwater sampling at Site 2567 will include groundwater samples collected from monitoring wells 2567-MW1, 2567-MW2, 2567-MW3, 2567-MW4, 2567-MW5, 2567-MW6 and 2567-MW7. The groundwater samples collected from these monitoring wells will be analyzed by the FMETL for VOCs plus 15 TICs. NJDEP GWQC for the identified COC should be used for comparison to groundwater sampling results. A remedial action progress report will be submitted annually. The following table summarizes the groundwater sampling program at Site 2567.

Monitoring Well	Analyzed for	Future Sampling Status
2567-MW1	VOCs	Continue Quarterly Sampling
2567-MW2	VOCs	Continue Quarterly Sampling
2567-MW3	VOCs	Continue Quarterly Sampling
2567-MW4	VOCs	Continue Quarterly Sampling
2567-MW5	VOCs	Continue Quarterly Sampling
2567-MW6	VOCs	Continue Quarterly Sampling
2567-MW7	VOCs	Continue Quarterly Sampling

8.3.2 Quality Assurance Project Plan (QAPP)

Field sampling activities will be conducted in accordance with the NJDEP Field Sampling Manual. The FMETL will conduct all analyses in accordance with the New Jersey Laboratory Certification Program.

Quality control samples will be collected to assure that data developed during sampling are comparable to, or are of greater quality than, prior data collected at the site. Quality control samples for this project include trip blanks, field blanks and duplicate samples. One trip blank will be included with each sample shipment; one field blank will be taken each day that sampling is performed. Duplicate samples are to be collected at a rate of one duplicate sample for every 20 samples; therefore, one duplicate sample is required for every round of samples submitted to the FMETL for analysis. The FMETL will conduct internal auditing procedures according to their established Quality Assurance Manual.

All samples will be placed in laboratory-supplied bottles and placed on ice upon collection to assure samples are maintained below 4°C. Proper chain-of-custody procedures will be followed, tracking the samples from collection through analysis and reporting.

8.3.3 Remedial Action Progress Report (RAPR)

An RAPR will be prepared one year after the completion of this RIR/RAWP in accordance with NJDEP *Technical Requirements for Site Remediation* (February 2003), NJAC 7:26E-6.6. The RAPR will include a summary of the remedial actions performed during the reporting period, an analysis of the semi-annual groundwater and surface water sampling results collected during the reporting period, conclusions about the effectiveness of the MNA program, and the trends of the COC and recommendations concerning further action at Site2567.

8.4 Project Organization

The Contracting Officer's Representative (COR) for this project is Mr. Dinker Desai, who is responsible for all procurement and change orders. Mr. Doug Guenther can provide technical site guidance as requested by the contractor. Any variance to the NJDEP *Technical Requirements for Site Remediation* (February 2003), NJAC 7:26E, et seq. will be communicated to the NJDEP immediately. No variance to the NJDEP regulations will be permitted unless approved by the NJDEP Case Manager, Mr. Greg Zalaskus.

8.5 Site Specific Health and Safety Plan (SSHSP)

The SSHSP will be prepared, as required by NJDEP *Technical Requirements for Site Remediation* (February 2003), NJAC 7:26E, et seq., and adhered to as part of the remediation activities.

8.6 Effectiveness Analysis and Certification

The effectiveness of this remedial action will be assured through an evaluation of the quarterly groundwater sampling analytical results. This analysis will be performed as discussed in **Section 8.2.1**.

8.7 Remedial Action Costs

The estimated costs for implementation of the remedial action to be performed at Site 2567 are provided below:

Estimated Costs of Remedial Actions to be Performed at Site 2567 (per year)	
TASK	**ESTIMATED COSTS**
1. Total Labor Cost	$ 3,200
2. Laboratory costs	$ 5,700
3. Data analysis and Progress Report	$ 8,700
TOTAL ESTIMATED COSTS	$ 17,600
TOTAL ESTIMATED COST TO CLOSURE	$ 91,000

9.0 REFERENCES

ATC Associates, letter report submitted to the NJDEP in May 2000, *Results of Long-Term Groundwater Monitoring Program, Fort Monmouth, Building 2567, Fort Monmouth, New Jersey*.

Domenico, P.A. and F.W. Schwartz, 1998, *Physical and Chemical Hydrogeology, 2nd ed.* New York, John Wiley and Sons, New York.

Heath, R.C., 1989, *Basic ground-water hydrology*, U.S. Geological Survey Water-Supply Paper 2220, 5th printing, U.S. Government Printing Office, Washington, DC.

Howard, P.H., et. al., 1991, *Handbook of Environmental Degradation Rates*. Lewis Publishers.

Jablonski, L.A., 1968, *Groundwater Resources of Monmouth County, New Jersey. USGS Special Report 23*. USGS, Washington, DC.

Martin, M., 1998, *Groundwater Flow in the New Jersey Coastal Plain*. USGS Professional Paper 1404-H.

Meisler, H., J.A. Miller, L.L. Knobel, and R.L. Wait, 1988, "Region 22, Atlantic and Eastern Gulf Coastal Plan," in *Hydrogeology: The Geology of North America*, W. Back, J.S. Rosenhein, and P.R. Seaber, editors. Vol. 0-2. pp. 209-218.

Minard, J.P., 1969, *Geology of Sandy Hook Quadrangle in Monmouth County, New Jersey*. U.S. Government Printing Office, Washington, DC.

New Jersey Geological Survey, 1994, *Geologic Map of New Jersey*.

National Institute for Occupational Safety and Health (NIOSH), U.S. Department of Health and Human Services, 1997, *NIOSH Pocket Guide to Chemical Hazards*, Washington, D.C.

Roy F. Weston, Inc. (Weston), October 1993, *UST Closure and Site Assessment Report for Building 2567, Tanks 33 and 46,* Fort Monmouth, New Jersey.

Roy F. Weston, Inc. (Weston), January 1995, *UST Closure and Site Assessment Report, Building 2567, UST Nos. 42, 42, 43, 44, and 45*, prepared by Roy F. Weston, Inc. (Weston) for the DPW in January 1995, Fort Monmouth, New Jersey.

Roy F. Weston, Inc. (Weston), December 1995, *Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey*.

U.S. Army Garrison, Fort Monmouth, Directorate of Public Works (DPW), December 1997, *Fort Monmouth Standard Sampling Operating Procedure*, New Jersey.

U.S. Army Garrison, Fort Monmouth, Directorate of Public Works (DPW), Nad-83 Base Map of Fort Monmouth, New Jersey.

U.S. Army Garrison, Fort Monmouth, Directorate of Public Works (DPW), Nad-83 Topographic Survey of Fort Monmouth, New Jersey.

USDA Soil Conservation Service, 1989, *Soil Survey of Monmouth County, New Jersey.*

U.S. Geological Survey, 1981, *Long Branch Quadrangle Map*.

VERSAR, Inc. (Versar), 12 September, 2000, *Indefinite Quantity Indefinite Delivery Contract No. DACA51-00-D-0004 Fort Monmouth, Contract Support Services Relating to the Investigation of Groundwater and Surface Water at Five Restoration Sites*.

Wiedemeier, T.H., Rifai, H.S., Newell, C.J., and Wilson, J.T., 1999. *Natural Attenuation of Fuels and Chlorinated Solvents in the Subsurface*. John Wiley and Sons, New York.

Zapecza, O., 1989, *Hydrogeologic Framework of the New Jersey Coastal Plain.* U.S. Geological Survey Professional Paper 1404-B. U.S. Government Printing Office, Washington, DC.

TABLES

Table 2-1
Well Construction Summary
Site 2567 - Charles Wood Area
Fort Monmouth, New Jersey

Well ID	NJDEP Permit Number	Northing	Easting	Elevation of Inner Casing Survey Mark	Elevation of Ground Surface	Hole Diameter	Total Depth of Well	Depth to Top of Screen	Screen Length	Screen Diameter	Screen Material	Date of Construction
Units	**--**	**ft**	**ft**	**ft (amsl)[1]**	**ft (amsl)[1]**	**in**	**ft (bgs)[2]**	**ft (bgs)[2]**	**ft**	**in**	**--**	**--**
2567-MW1	29-26925	532956.749	609537.780	33.93	34.14	10	13.0	3.0	10.0	4.0	10 Slot PVC	9/31/91
2567-MW2	29-26926	533016.726	609468.755	35.26	35.28	10	13.0	3.0	10.0	4.0	10 Slot PVC	10/1/91
2567-MW3	29-26947	532939.317	609472.358	33.88	33.94	10	13.0	3.0	10.0	4.0	10 Slot PVC	10/1/91
2567-MW4	29-26948	533042.700	609544.264	33.51	33.64	10	12.0	2.0	10.0	4.0	10 Slot PVC	9/31/91
2567-MW5	29-31783	532871.131	609697.518	34.99	31.83	8	12.5	2.5	10.0	4.0	20 Slot PVC	9/23/94
2567-MW6	29-42585	532869.379	609542.569	35.10	32.86	8	13.0	3.0	10.0	4.0	10 Slot PVC	5/12/00
2567-MW7	29-42586	532879.489	609473.420	36.34	33.41	8	13.0	3.0	10.0	4.0	10 Slot PVC	5/12/00

Notes:
[1]amsl = above mean sea level
[2]bgs = below ground surface
Where a difference in reported data exists between a monitoring well permit and the corresponding boring log, data from the permit was used.
The wells presented in this table were installed by the Department of Public Works (DPW) at Fort Monmouth, New Jersey.
NA = Not available
Well locations were recorded using Trimble GPS equipment in August 2001.

Table 3-1
Groundwater Monitoring Well Sample Collection Summary
Site 2567
Fort Monmouth, New Jersey

Round #	Sample ID	Monitoring Well ID	Date Collected	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Analysis Method
1	2446.01	Trip Blank	04/11/97	04/22/97	aqueous	Blank	VOCs +15	Method 624
	2446.02	Field Blank	04/11/97	04/22/97	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	2446.03	2567-MW4	04/11/97	04/22/97	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2446.04	2567-MW5	04/11/97	04/22/97	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2446.05	2567-MW2	04/11/97	04/22/97	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2446.06	2567-MW1	04/11/97	04/22/97	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2446.07	2567-MW3	04/11/97	04/22/97	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2446.08	Duplicate	04/11/97	04/22/97	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
2	2940.01	Trip Blank	08/28/97	09/02/97	aqueous	Blank	VOCs +15	Method 624
	2940.02	Field Blank	08/28/97	09/02/97	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	2940.03	2567-MW5	08/28/97	09/02/97	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2940.04	2567-MW2	08/28/97	09/02/97	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2940.05	2567-MW4	08/28/97	09/02/97	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2940.06	2567-MW3	08/28/97	09/02/97	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2940.07	2567-MW1	08/28/97	09/08/97	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2940.08	Duplicate	08/28/97	09/08/97	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
3	3188.01	Trip Blank	12/02/97	12/05/97	aqueous	Blank	VOCs +15	Method 624
	3188.02	Field Blank	12/02/97	12/05/97	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3188.03	2567-MW2	12/02/97	12/05/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3188.04	2567-MW4	12/02/97	12/05/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3188.05	2567-MW5	12/02/97	12/06/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3188.06	2567-MW1	12/02/97	12/06/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3188.07	2567-MW3	12/02/97	12/06/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3188.08	Duplicate	12/02/97	12/10/97	aqueous	GW	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
4	3381.01	Trip Blank	03/04/98	03/06/98	aqueous	Blank	VOCs +15	Method 624
	3381.02	Field Blank	03/04/98	03/06/98	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3381.03	2567-MW1	03/04/98	03/06/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3381.04	2567-MW2	03/04/98	03/06/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3381.05	2567-MW3	03/04/98	03/06/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3381.06	2567-MW4	03/04/98	03/06/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3381.07	Duplicate	03/04/98	03/06/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	3381.08	2567-MW5	03/04/98	03/06/98	aqueous	GW	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
5	3605.01	Trip Blank	06/01/98	06/02/98	aqueous	Blank	VOCs +15	Method 624
	3605.02	Field Blank	06/01/98	06/02/98	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	3605.03	2567-MW1	06/01/98	06/02/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3605.04	2567-MW2	06/01/98	06/02/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3605.05	2567-MW3	06/01/98	06/02/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3605.06	2567-MW4	06/01/98	06/02/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3605.07	2567-MW5	06/01/98	06/02/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3605.08	Duplicate	06/01/98	06/02/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
6	3912.01	Trip Blank	09/24/98	10/05/98	aqueous	Blank	VOCs +15	Method 624
	3912.02	Field Blank	09/24/98	09/29/98	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	3912.03	2567-MW4	09/24/98	09/29/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3912.04	2567-MW2	09/24/98	09/29/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3912.05	2567-MW1	09/24/98	09/29/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3912.06	Duplicate	09/24/98	09/29/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3916.01	Field Blank	09/25/98	10/06/98	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	3916.02	2567-MW3	09/25/98	09/29/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3916.03	2567-MW5	09/25/98	09/29/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B

Notes:
GW : Groundwater
TAL metals : Target Analyte List metals
VOCs+15: Volatile Organic Compounds plus 15 tentatively identified compounds (TICs)
SVOCs+15: Semi-Volatile Organic Compounds plus 15 TICs
*Low Flow Sampling Method was used to collect sample

Table 3-1
Groundwater Monitoring Well Sample Collection Summary
Site 2567
Fort Monmouth, New Jersey

Round #	Sample ID	Monitoring Well ID	Date Collected	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Analysis Method
7	4144.01	Trip Blank	12/16/98	12/28/98	aqueous	Blank	VOCs +15	Method 624
	4144.02	Field Blank	12/16/98	12/28/98	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	4144.03	2567-MW1	12/16/98	12/28/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4144.04	2567-MW2	12/16/98	12/28/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4144.05	2567-MW3	12/16/98	12/28/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4144.06	2567-MW4	12/16/98	12/28/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4144.07	2567-MW5	12/16/98	12/28/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4144.08	Duplicate	12/16/98	12/28/98	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
8	4296.01	Trip Blank	02/24/99	02/26/99	aqueous	Blank	VOCs +15	Method 624
	4296.02	Field Blank	02/24/99	02/26/99	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	4296.03	2567-MW1	02/24/99	02/26/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4296.04	2567-MW2	02/24/99	02/26/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4296.05	2567-MW3	02/24/99	02/26/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4296.06	2567-MW4	02/24/99	02/27/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4296.07	2567-MW5	02/24/99	02/27/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4296.08	Duplicate	02/24/99	02/27/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
9	4524.01	Trip Blank	05/29/99	06/03/99	aqueous	Blank	VOCs +15	Method 624
	4524.02	Field Blank	05/29/99	06/01/99	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	4524.03	2567-MW1	05/29/99	06/01/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4524.04	2567-MW2	05/29/99	06/01/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4524.05	2567-MW3	05/29/99	06/01/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4524.06	2567-MW4	05/29/99	06/01/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4524.08	Duplicate	05/29/99	06/01/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4535.01	2567-MW5	06/08/99	06/10/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
10	4635.01	Trip Blank	07/21/99	07/22/99	aqueous	Blank	VOCs +15	Method 624
	4635.02	Field Blank	07/21/99	07/22/99	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	4635.03	2567-MW1	07/21/99	07/22/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4635.04	2567-MW2	07/21/99	07/22/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4635.05	2567-MW3	07/21/99	07/22/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4635.06	2567-MW4	07/21/99	07/22/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4635.07	2567-MW5	07/21/99	07/22/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4635.08	Duplicate	07/21/99	07/22/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
11	4871.01	Trip Blank	10/21/99	10/25/99	aqueous	Blank	VOCs +15	Method 624
	4871.02	Field Blank	10/21/99	10/25/99	aqueous	Blank	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4871.03	Duplicate	10/21/99	10/25/99	aqueous	GW	VOCs+15; SVOCs+25; Pesticides; PCBs; TAL metals	Method 624; Method 625; Method 608; Methods 3112B and 3120B
	4872.01	2567-MW1	10/21/99	10/25/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4872.02	2567-MW2	10/21/99	10/25/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4872.03	2567-MW3	10/21/99	10/25/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4872.04	2567-MW4	10/21/99	10/25/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4872.05	2567-MW5	10/21/99	10/26/99	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
12	5167.01	Trip Blank	02/14/00	02/16/99	aqueous	Blank	VOCs +15	Method 624
	5167.02	Field Blank	02/14/00	02/15/00	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	5167.03	Duplicate	02/14/00	02/15/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5167.04	2567-MW1	02/14/00	02/15/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5167.05	2567-MW2	02/14/00	02/15/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5167.06	2567-MW3	02/14/00	02/15/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5167.07	2567-MW4	02/14/00	02/15/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5167.08	2567-MW5	02/14/00	02/15/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B

Notes:
GW : Groundwater
TAL metals : Target Analyte List metals
VOCs+15: Volatile Organic Compounds plus 15 tentatively identified compounds (TICs)
SVOCs+15: Semi-Volatile Organic Compounds plus 15 TICs
*Low Flow Sampling Method was used to collect sample

Table 3-1
Groundwater Monitoring Well Sample Collection Summary
Site 2567
Fort Monmouth, New Jersey

Round #	Sample ID	Monitoring Well ID	Date Collected	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Analysis Method
13	5417.01	2567-MW1	05/15/00	05/17/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5417.02	2567-MW2	05/15/00	05/17/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5417.03	2567-MW3	05/15/00	05/17/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5417.04	2567-MW4	05/15/00	05/17/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5417.05	2567-MW5	05/15/00	05/17/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5417.06	Trip Blank	05/15/00	05/17/00	aqueous	Blank	VOCs +15	Method 624
	5417.07	Field Blank	05/15/00	05/17/00	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	5417.08	Duplicate	05/15/00	05/17/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
14	5647.01	Trip Blank	08/22/00	08/31/00	aqueous	Blank	VOCs +15	Method 624
	5647.02	Field Blank	08/22/00	08/31/00	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	5647.03	Duplicate	08/22/00	08/31/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5647.04	2567-MW1	08/22/00	08/31/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5647.05	2567-MW2	08/22/00	08/31/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5647.06	2567-MW3	08/22/00	08/31/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5647.07	2567-MW4	08/22/00	08/31/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5647.08	2567-MW5	08/22/00	08/31/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5647.09	2567-MW6	08/22/00	08/31/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5647.10	2567-MW7	08/22/00	08/31/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
15	5825.01	Trip Blank	11/01/00	11/07/00	aqueous	Blank	VOCs +15	Method 624
	5825.02	Field Blank	11/01/00	11/07/00	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	5825.03	Duplicate	11/01/00	11/07/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5825.04	2567-MW1	11/01/00	11/07/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5825.05	2567-MW2	11/01/00	11/07/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5825.06	2567-MW3	11/01/00	11/07/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5825.07	2567-MW4	11/01/00	11/07/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5825.08	2567-MW5	11/01/00	11/07/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5825.09	2567-MW6	11/01/00	11/07/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	5825.10	2567-MW7	11/01/00	11/07/00	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
16	707	Trip Blank	02/09/01	02/10/01	aqueous	Blank	VOCs +15	Method 624
	708	Field Blank	02/09/01	02/10/01	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	709	Duplicate	02/09/01	02/10/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	710	2567-MW1	02/09/01	02/10/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	711	2567-MW2	02/09/01	02/10/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	712	2567-MW3	02/09/01	02/10/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	713	2567-MW4	02/09/01	02/12/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	714	2567-MW5	02/09/01	02/12/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	715	2567-MW6	02/09/01	02/12/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	716	2567-MW7	02/09/01	02/12/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
Low Flow #1	1615401	Field Blank	05/31/01	06/01/01	aqueous	Blank	TAL Metals	Method 3112B, 3120B
	1615405	Field Duplicate	05/31/01	06/01/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
	1615402	2567-MW05	05/31/01	06/01/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
	1615403	2567-MW04	05/31/01	06/01/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
	1615404	2567-MW01	05/31/01	06/01/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
Low Flow #1	1616801	Field Blank	06/05/01	06/05/01	aqueous	Blank	TAL Metals	Method 3112B, 3120B
	1616802	2567-MW3	06/05/01	06/05/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
	1616803	2567-MW2	06/05/01	06/05/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
	1616804	2567-MW7	06/05/01	06/05/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
	1616805	2567-MW6	06/05/01	06/05/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
Low Flow #2	1621101	Field Blank	06/25/01	06/25/01	aqueous	Blank	TAL Metals	Method 3112B, 3120B
	1621106	Field Duplicate	06/25/01	06/25/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
	1621102	2567-MW1	06/25/01	06/25/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
	1621105	2567-MW2	06/25/01	06/25/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
	1621104	2567-MW3	06/25/01	06/25/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
	1621103	2567-MW4	06/25/01	06/25/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
Low Flow #2	1621401	Field Blank	06/26/01	06/26/01	aqueous	Blank	TAL Metals	Method 3112B, 3120B
	1621405	Field Duplicate	06/26/01	06/26/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
	1621404	2567-MW5	06/26/01	06/26/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
	1621403	2567-MW6	06/26/01	06/26/01	aqueous	GW	TAL Metals	Method 3112B, 3120B
	1621402	2567-MW7	06/26/01	06/26/01	aqueous	GW	TAL Metals	Method 3112B, 3120B

Notes:
GW : Groundwater
TAL metals : Target Analyte List metals
VOCs+15: Volatile Organic Compounds plus 15 tentatively identified compounds (TICs)
SVOCs+15: Semi-Volatile Organic Compounds plus 15 TICs
*Low Flow Sampling Method was used to collect sample

Table 3-1
Groundwater Monitoring Well Sample Collection Summary
Site 2567
Fort Monmouth, New Jersey

Round #	Sample ID	Monitoring Well ID	Date Collected	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Analysis Method
17	1610701	Trip Blank	05/08/01	05/16/01	aqueous	Blank	VOCs +15	Method 624
	1610702	Field Blank	05/08/01	05/16/01	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	1610703	Duplicate	05/08/01	05/16/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1610704	2567-MW1	05/08/01	05/16/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1610705	2567-MW2	05/08/01	05/16/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1610706	2567-MW3	05/08/01	05/16/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1610707	2567-MW4	05/08/01	05/16/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1610708	2567-MW5	05/08/01	05/16/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1610709	2567-MW6	05/08/01	05/16/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1610710	2567-MW7	05/08/01	05/16/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
18	1635601	Trip Blank	08/15/01	08/23/01	aqueous	Blank	VOCs +15	Method 624
	1635602	Field Blank	08/15/01	08/23/01	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	1635603	Duplicate	08/15/01	08/23/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1635604	2567-MW1	08/15/01	08/23/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1635605	2567-MW2	08/15/01	08/23/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1635606	2567-MW3	08/15/01	08/23/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1635607	2567-MW4	08/15/01	08/23/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1635608	2567-MW5	08/15/01	08/23/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1635609	2567-MW6	08/15/01	08/23/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1635610	2567-MW7	08/15/01	08/23/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
19	1657301	Trip Blank	11/09/01	11/10/01	aqueous	Blank	VOCs +15	Method 624
	1657302	Field Blank	11/19/01	11/10/01	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	1657303	Duplicate	11/19/01	11/10/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1657304	2567-MW1	11/19/01	11/10/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1657305	2567-MW2	11/19/01	11/10/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1657306	2567-MW3	11/19/01	11/10/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1657307	2567-MW4	11/19/01	11/10/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1657308	2567-MW5	11/19/01	11/10/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1657309	2567-MW6	11/19/01	11/10/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	1657310	2567-MW7	11/09/01	11/10/01	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
20	2011201	Trip Blank	02/26/02	03/04/02	aqueous	Blank	VOCs +15	Method 624
	2011202	Field Blank	02/26/02	03/04/02	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	2011203	Duplicate	02/26/02	03/04/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2011204	2567-MW1	02/26/02	03/04/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2011205	2567-MW2	02/26/02	03/04/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2011206	2567-MW3	02/26/02	03/04/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2011207	2567-MW4	02/26/02	03/04/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2011208	2567-MW5	02/26/02	03/04/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2011209	2567-MW6	02/26/02	03/04/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2011210	2567-MW7	02/26/02	03/04/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
21	2033101	Trip Blank	05/28/02	06/06/02	aqueous	Blank	VOCs +15	Method 624
	2033102	Field Blank	05/28/02	06/06/02	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	2033103	Duplicate	05/28/02	06/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2033104	2567-MW1	05/28/02	06/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2033105	2567-MW2	05/28/02	06/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2033106	2567-MW3	05/28/02	06/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2033107	2567-MW4	05/28/02	06/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2033108	2567-MW5	05/28/02	06/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2033109	2567-MW6	05/28/02	06/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2033110	2567-MW7	05/28/02	06/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
22	2058501	Trip Blank	08/20/02	08/22/02	aqueous	Blank	VOCs +15	Method 624
	2058502	Field Blank	08/20/02	08/22/02	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	2058503	Duplicate	08/20/02	08/22/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2058504	2567-MW1	08/20/02	08/22/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2058505	2567-MW2	08/20/02	08/22/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2058506	2567-MW3	08/20/02	08/22/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2058507	2567-MW4	08/20/02	08/22/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2058508	2567-MW5	08/20/02	08/22/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2058509	2567-MW6	08/20/02	08/22/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2058510	2567-MW7	08/20/02	08/22/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B

Notes:
GW : Groundwater
TAL metals : Target Analyte List metals
VOCs+15: Volatile Organic Compounds plus 15 tentatively identified compounds (TICs)
SVOCs+15: Semi-Volatile Organic Compounds plus 15 TICs
*Low Flow Sampling Method was used to collect sample

Table 3-1
Groundwater Monitoring Well Sample Collection Summary
Site 2567
Fort Monmouth, New Jersey

Round #	Sample ID	Monitoring Well ID	Date Collected	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Analysis Method
23	2076201	Trip Blank	10/28/02	11/06/02	aqueous	Blank	VOCs +15	Method 624
	2076202	Field Blank	10/28/02	11/06/02	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	2076203	Duplicate	10/28/02	11/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2076204	2567-MW1	10/28/02	11/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2076205	2567-MW2	10/28/02	11/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2076206	2567-MW3	10/28/02	11/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2076207	2567-MW4	10/28/02	11/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2076208	2567-MW5	10/28/02	11/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2076209	2567-MW6	10/28/02	11/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	2076210	2567-MW7	10/28/02	11/06/02	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
24	3008301	Trip Blank	02/26/03	03/12/03	aqueous	Blank	VOCs +15	Method 624
	3008302	Field Blank	02/26/03	03/12/03	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	3008303	Duplicate	02/26/03	03/12/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3008304	2567-MW1	02/26/03	03/12/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3008305	2567-MW2	02/26/03	03/12/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3008306	2567-MW3	02/26/03	03/12/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3008307	2567-MW4	02/26/03	03/12/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3008308	2567-MW5	02/26/03	03/12/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3008309	2567-MW6	02/26/03	03/12/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3008310	2567-MW7	02/26/03	03/12/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
25	3028301	Trip Blank	06/11/03	06/24/03	aqueous	Blank	VOCs +15	Method 624
	3028302	Field Blank	06/11/03	06/24/03	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	3028303	Duplicate	06/11/03	06/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3028304	2567-MW1	06/11/03	06/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3028305	2567-MW2	06/11/03	06/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3028306	2567-MW3	06/11/03	06/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3028307	2567-MW4	06/11/03	06/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3028308	2567-MW5	06/11/03	06/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3028309	2567-MW6	06/11/03	06/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3028310	2567-MW7	06/11/03	06/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
26	3039701	Trip Blank	07/22/03	07/24/03	aqueous	Blank	VOCs +15	Method 624
	3039702	Field Blank	07/22/03	07/24/03	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	3039703	Duplicate	07/22/03	07/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3039704	2567-MW1	07/22/03	07/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3039705	2567-MW2	07/22/03	07/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3039706	2567-MW3	07/22/03	07/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3039707	2567-MW4	07/22/03	07/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3039708	2567-MW5	07/22/03	07/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3039709	2567-MW6	07/22/03	07/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3039710	2567-MW7	07/22/03	07/24/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
27	3063401	Trip Blank	10/07/03	10/17/03	aqueous	Blank	VOCs +15	Method 624
	3063402	Field Blank	10/07/03	10/17/03	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	3063403	Duplicate	10/07/03	10/17/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3063404	2567-MW1	10/07/03	10/17/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3063405	2567-MW2	10/07/03	10/17/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3063406	2567-MW3	10/07/03	10/17/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3063407	2567-MW4	10/07/03	10/17/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3063408	2567-MW5	10/07/03	10/17/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3063409	2567-MW6	10/07/03	10/17/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	3063410	2567-MW7	10/07/03	10/17/03	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
28	4004301	Trip Blank	01/16/04	01/27/04	aqueous	Blank	VOCs +15	Method 624
	4004302	Field Blank	01/16/04	01/27/04	aqueous	Blank	VOCs+15; Lead	Method 624; Method 3113B
	4004303	Duplicate	01/16/04	01/27/04	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4004304	2567-MW1	01/16/04	01/27/04	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4004305	2567-MW2	01/16/04	01/27/04	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4004306	2567-MW3	01/16/04	01/27/04	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4004307	2567-MW4	01/16/04	01/27/04	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4004308	2567-MW5	01/16/04	01/27/04	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4004309	2567-MW6	01/16/04	01/27/04	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B
	4004310	2567-MW7	01/16/04	01/27/04	aqueous	GW	VOCs+15; Lead	Method 624; Method 3113B

Notes:
GW : Groundwater
TAL metals : Target Analyte List metals
VOCs+15: Volatile Organic Compounds plus 15 tentatively identified compounds (TICs)
SVOCs+15: Semi-Volatile Organic Compounds plus 15 TICs
*Low Flow Sampling Method was used to collect sample

Table 3-2
Geoprobe Groundwater Sample Collection Summary
Site 2567
Fort Monmouth, New Jersey

Round #	Sample ID	Monitoring Well ID	Date Collected	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Analysis Method
1	4008901	Trip Blank	02/02/04	02/06/04	aqueous	Blank	VOCs +15	Method 624
	4008902	Field Blank	02/02/04	02/06/04	aqueous	Blank	VOCs+15	Method 624
	4008903	GW-1	02/02/04	02/06/04	aqueous	GW	VOCs+15	Method 624
	4008905	GW-2	02/02/04	02/06/04	aqueous	GW	VOCs+15	Method 624
	4008906	GW-3	02/02/04	02/06/04	aqueous	GW	VOCs+15	Method 624
	4008904	Duplicate	02/02/04	02/06/04	aqueous	GW	VOCs+15	Method 624
	4031601	Trip Blank	04/30/04	05/06/04	aqueous	Blank	VOCs+15	Method 624
	4031602	Field Blank	04/30/04	05/06/04	aqueous	Blank	VOCs+15	Method 624
	4031603	W-1	04/30/04	05/06/04	aqueous	GW	VOCs+15	Method 624
	4031604	W-2	04/30/04	05/06/04	aqueous	GW	VOCs+15	Method 624
	4031606	W-3	04/30/04	05/06/04	aqueous	GW	VOCs+15	Method 624
	4031607	W-4	04/30/04	05/06/04	aqueous	GW	VOCs+15	Method 624
	4031605	Duplicate	04/30/04	05/06/04	aqueous	GW	VOCs+15	Method 624

Notes:
GW : Groundwater
VOCs+15: Volatile Organic Compounds plus 15 tentatively identified compounds (TICs)

Table 3-3
Groundwater Elevation Summary
Site 2567
Fort Monmouth, New Jersey

		Round#: 1			2			3			4		
Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.
2567-MW1	33.93	04/11/97	3.80	30.13	08/28/97	4.80	29.13	12/02/97	3.90	30.03	03/04/98	3.51	30.42
2567-MW2	35.26	04/11/97	3.40	31.86	08/28/97	4.30	30.96	12/02/97	3.45	31.81	03/04/98	2.92	32.34
2567-MW3	33.88	04/11/97	3.15	30.73	08/28/97	4.00	29.88	12/02/97	3.10	30.78	03/04/98	2.48	31.4
2567-MW4	33.51	04/11/97	2.55	30.96	08/28/97	3.20	30.31	12/02/97	2.45	31.06	03/04/98	2.11	31.4
2567-MW5	34.99	04/11/97	7.20	27.79	08/28/97	7.50	27.49	12/02/97	7.20	27.79	03/04/98	7.30	27.69
2567-MW6	35.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2567-MW7	36.34	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
1) Elev.: Elevation in feet above mean sea level.
2) Depth to water: depth in feet from the inner casing survey mark.
3) NS: Not Sampled

Table 3-3
Groundwater Elevation Summary
Site 2567
Fort Monmouth, New Jersey

		Round#: 5			5			6			7		
Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.
2567-MW1	33.93	06/01/98	4.06	29.87	NS	NS	NS	09/24/98	5.21	28.72	12/09/98	4.90	29.03
2567-MW2	35.26	06/01/98	3.59	31.67	NS	NS	NS	09/24/98	12.20	23.06	12/09/98	3.42	31.84
2567-MW3	33.88	06/01/98	3.99	29.89	06/19/98	3.99	29.89	09/25/98	4.56	29.32	12/16/98	4.25	29.63
2567-MW4	33.51	06/01/98	2.33	31.18	06/19/98	2.33	31.18	09/24/98	3.55	29.96	12/12/98	3.11	30.4
2567-MW5	34.99	06/01/98	7.55	27.44	NS	NS	NS	09/25/98	7.59	27.4	12/16/98	7.34	27.65
2567-MW6	35.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2567-MW7	36.34	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
1) Elev.: Elevation in feet above mean sea level.
2) Depth to water: depth in feet from the inner casing survey mark.
3) NS: Not Sampled

Table 3-3
Groundwater Elevation Summary
Site 2567
Fort Monmouth, New Jersey

		Round#: 8			9			10			11		
Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.
2567-MW1	33.93	02/24/99	3.75	30.18	05/29/99	4.20	29.73	07/21/99	5.48	28.45	10/21/99	4.03	29.9
2567-MW2	35.26	02/24/99	3.38	31.88	05/29/99	3.83	31.43	07/21/99	5.03	30.23	10/21/99	3.65	31.61
2567-MW3	33.88	02/24/99	3.16	30.72	05/29/99	3.55	30.33	07/21/99	4.85	29.03	10/21/99	3.93	29.95
2567-MW4	33.51	02/24/99	2.44	31.07	05/29/99	2.76	30.75	07/21/99	3.98	29.53	10/21/99	2.37	31.14
2567-MW5	34.99	02/24/99	8.16	26.83	06/08/99	7.33	27.66	07/21/99	7.87	27.12	10/21/99	8.57	26.42
2567-MW6	35.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2567-MW7	36.34	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
1) Elev.: Elevation in feet above mean sea level.
2) Depth to water: depth in feet from the inner casing survey mark.
3) NS: Not Sampled

Table 3-3
Groundwater Elevation Summary
Site 2567
Fort Monmouth, New Jersey

		Round#: 12			13			14			15		
Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.
2567-MW1	33.93	02/14/00	3.31	30.62	05/15/00	4.04	29.89	08/22/00	3.87	30.06	11/01/00	4.24	29.69
2567-MW2	35.26	02/14/00	3.00	32.26	05/15/00	3.77	31.49	08/22/00	3.51	31.75	11/01/00	4.15	31.11
2567-MW3	33.88	02/14/00	3.42	30.46	05/15/00	3.40	30.48	08/22/00	3.17	30.71	11/01/00	3.56	30.32
2567-MW4	33.51	02/14/00	1.69	31.82	05/15/00	2.65	30.86	08/22/00	2.49	31.02	11/01/00	2.91	30.6
2567-MW5	34.99	02/14/00	5.75	29.24	05/15/00	6.92	28.07	08/22/00	6.73	28.26	11/01/00	7.16	27.83
2567-MW6	35.10	NS	NS	NS	NS	NS	NS	08/22/00	7.06	28.04	11/01/00	7.26	27.84
2567-MW7	36.34	NS	NS	NS	NS	NS	NS	08/22/00	6.65	29.69	11/02/00	6.80	29.54

Notes:
1) Elev.: Elevation in feet above mean sea level.
2) Depth to water: depth in feet from the inner casing survey mark.
3) NS: Not Sampled

Table 3-3
Groundwater Elevation Summary
Site 2567
Fort Monmouth, New Jersey

		Round#:	16		Low Flow 1			Low Flow 2			17		
Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.
2567-MW1	33.93	02/09/01	3.30	30.63	02/09/01	3.30	30.63	02/09/01	3.30	30.63	05/08/01	4.15	29.78
2567-MW2	35.26	02/09/01	2.75	32.51	02/09/01	2.75	32.51	02/09/01	2.75	32.51	05/08/01	3.95	31.31
2567-MW3	33.88	02/09/01	2.50	31.38	02/09/01	2.50	31.38	02/09/01	2.50	31.38	05/08/01	3.40	30.48
2567-MW4	33.51	02/09/01	1.99	31.52	02/09/01	1.99	31.52	02/09/01	1.99	31.52	05/08/01	2.68	30.83
2567-MW5	34.99	02/09/01	5.26	29.73	02/09/01	5.26	29.73	02/09/01	5.26	29.73	05/08/01	7.47	27.52
2567-MW6	35.10	02/09/01	6.44	28.66	02/09/01	6.44	28.66	02/09/01	6.44	28.66	05/08/01	7.42	27.68
2567-MW7	36.34	02/09/01	6.23	30.11	02/09/01	6.23	30.11	02/09/01	6.23	30.11	05/08/01	7.02	29.32

Notes:
1) Elev.: Elevation in feet above mean sea level.
2) Depth to water: depth in feet from the inner casing survey mark.
3) NS: Not Sampled

Table 3-3
Groundwater Elevation Summary
Site 2567
Fort Monmouth, New Jersey

		Round#: 18			19			20			21		
Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.
2567-MW1	33.93	08/15/01	4.95	28.98	11/09/01	5.11	28.82	02/26/02	3.95	29.98	05/28/02	4.09	29.84
2567-MW2	35.26	08/15/01	4.65	30.61	11/09/01	4.81	30.45	02/26/02	3.86	31.4	05/28/02	3.83	31.43
2567-MW3	33.88	08/15/01	4.30	29.58	11/09/01	4.30	29.58	02/26/02	3.29	30.59	05/28/02	3.40	30.48
2567-MW4	33.51	08/15/01	3.50	30.01	11/09/01	3.65	29.86	02/26/02	2.71	30.8	05/28/02	2.83	30.68
2567-MW5	34.99	08/15/01	7.70	27.29	11/09/01	7.83	27.16	02/26/02	6.95	28.04	05/28/02	5.91	29.08
2567-MW6	35.10	08/15/01	8.15	26.95	11/09/01	8.09	27.01	02/26/02	6.82	28.28	05/28/02	7.29	27.81
2567-MW7	36.34	08/15/01	7.75	28.59	11/09/01	7.56	28.78	02/26/02	6.71	29.63	05/28/02	6.83	29.51

Notes:
1) Elev.: Elevation in feet above mean sea level.
2) Depth to water: depth in feet from the inner casing survey mark.
3) NS: Not Sampled

Table 3-3
Groundwater Elevation Summary
Site 2567
Fort Monmouth, New Jersey

		Round#: 22			23			24			25		
Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.
2567-MW1	33.93	08/20/02	5.45	28.48	10/28/02	3.62	30.31	02/26/03	3.11	30.82	06/11/03	3.35	30.58
2567-MW2	35.26	08/20/02	5.13	30.13	10/28/02	3.32	31.94	02/26/03	2.71	32.55	06/11/03	3.00	32.26
2567-MW3	33.88	08/20/02	4.03	29.85	10/28/02	2.98	30.9	02/26/03	2.39	31.49	06/11/03	2.55	31.33
2567-MW4	33.51	08/20/02	3.96	29.55	10/28/02	2.26	31.25	02/26/03	1.84	31.67	06/11/03	2.15	31.36
2567-MW5	34.99	08/20/02	8.03	26.96	10/28/02	5.95	29.04	02/26/03	5.37	29.62	06/11/03	5.78	29.21
2567-MW6	35.10	08/20/02	8.78	26.32	10/28/02	6.62	28.48	02/26/03	6.24	28.86	06/11/03	6.50	28.6
2567-MW7	36.34	08/20/02	8.28	28.06	10/28/02	6.40	29.94	02/26/03	6.07	30.27	06/11/03	6.26	30.08

Notes:
1) Elev.: Elevation in feet above mean sea level.
2) Depth to water: depth in feet from the inner casing survey mark.
3) NS: Not Sampled

Table 3-3
Groundwater Elevation Summary
Site 2567
Fort Monmouth, New Jersey

		Round#: 26			27			28		
Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.	Date	Depth to Water	Ground-water Elev.
2567-MW1	33.93	07/22/03	4.39	29.54	10/07/03	4.23	29.7	01/16/04	3.60	30.33
2567-MW2	35.26	07/22/03	3.91	31.35	10/07/03	3.89	31.37	01/16/04	3.42	31.84
2567-MW3	33.88	07/22/03	3.81	30.07	10/07/03	3.52	30.36	01/16/04	2.95	30.93
2567-MW4	33.51	07/22/03	2.62	30.89	10/07/03	2.75	30.76	01/16/04	2.37	31.14
2567-MW5	34.99	07/22/03	7.30	27.69	10/07/03	7.17	27.82	01/16/04	6.93	28.06
2567-MW6	35.10	07/22/03	7.61	27.49	10/07/03	7.31	27.79	01/16/04	6.65	28.45
2567-MW7	36.34	07/22/03	7.19	29.15	10/07/03	6.88	29.46	01/16/04	6.37	29.97

Notes:
1) Elev.: Elevation in feet
above mean sea level.
2) Depth to water: depth in feet
from the inner casing survey mark.
3) NS: Not Sampled

Table 4-1
Data for Geologic Cross-Section A-A'
Site 2567 - Charles Wood Area
Fort Monmouth, New Jersey

Well ID	Units	2567-MW2	2567-MW3	2567-MW6
Elevation of Top of Casing	ft (amsl)	35.26	33.88	35.1
Elevation of Ground Surface	ft (amsl)	35.28	33.94	32.86
Elevation of Top of Screen	ft (amsl)	32.28	30.94	29.86
Elevation of Groundwater (5/8/01)	ft (amsl)	31.31	30.48	27.68
Elevation of Top of Unit 4	ft (amsl)	30.28	NA	NA
Elevation of Top of Unit 5	ft (amsl)	27.28	29.94	NA
Elevation of Top of Unit 6	ft (amsl)	NA	NA	32.86
Elevation of Bottom of Well	ft (amsl)	22.28	20.94	19.86

Explanation of Units (see Minard, 1969):
Surface Materials:
*Unit 1 = topsoil/roots
*Unit 2 = asphalt/base stone
*Unit 3 = light orange and brown sand - fill
Native Material (Tinton Sand or Hornerstown Sand Formation):
Unit 4 = light green sand
Unit 5 = dark brown/black clay with some fine sand
Unit 6 = medium-fine sand

Notes:
*Shown in geologic cross section A-A' but not in table above
All measurements in feet.
amsl: above mean sea level
NA: Not Applicable
Unit numbering matches Geologic Cross Section A-A"

Table 4-2
Data for Geologic Cross-Section A-A"
Site 2567 - Charles Wood Area
Fort Monmouth, New Jersey

Well ID	Units	2567-MW2	2567-MW1	2567-MW5
Elevation of Top of Casing	ft (amsl)	35.26	33.93	34.99
Elevation of Ground Surface	ft (amsl)	35.28	34.14	31.83
Elevation of Top of Screen	ft (amsl)	32.28	31.14	29.33
Elevation of Groundwater (5/8/01)	ft (amsl)	31.31	29.78	27.52
Elevation of Top of Unit 1	ft (amsl)	0	NA	NA
Elevation of Top of Unit 2	ft (amsl)	30.28	NA	NA
Elevation of Top of Unit 3	ft (amsl)	27.28	32.14	NA
Elevation of Top of Unit 7	ft (amsl)	NA	NA	32.33
Elevation of Top of Unit 8	ft (amsl)	NA	NA	30.83
Elevation of Top of Unit 9	ft (amsl)	NA	NA	29.83
Elevation of Top of Unit 10	ft (amsl)	NA	NA	28.83
Elevation of Bottom of Well	ft (amsl)	22.28	21.14	19.33

Explanation of Units (see Minard, 1969):

Surface Materials:

*Unit 1 = topsoil/roots
*Unit 2 = asphalt/base stone
Unit 3 = light orange and brown sand - fill
Unit 4 = light green sand - fill
*Unit 7 = fill, unknown depth and lithology

Native Material (Tinton Sand Formation):

Unit 5 = dark brown/black clay with some fine green sand
Unit 8 = brown fine sand
Unit 9 = black, soft clay
Unit 10 = brown fine sand and silts
Unit 11 = gray medium sand with well-rounded gravel

Notes:

*Shown in geologic cross section A-A" but not in table
All measurements in feet.
amsl: above mean sea level
NA: Not Applicable
Unit numbering matches Geologic Cross Section A-A'

Table 4-3
Slug Testing Results Summary
Site 2567 - Charles Wood Area
Fort Monmouth, New Jersey

Well ID	Date	Depth to Static Water Level	DTW at t=0	b	DTW Adjustment	Hydraulic Conductivity (feet/day)
2567-MW1	8/17/2001	4.97	7.464	5.536	0.007	35.1
2567-MW2	8/17/2001	4.52	7.154	5.846	0.038	28.5
2567-MW3	8/17/2001	5.49	7.827	5.173	0.789	35.6
2567-MW4	8/17/2001	3.42	5.330	6.670	0.108	20.2
2567-MW5	8/17/2001	7.56	10.405	2.095	0.005	24.4
2567-MW6	8/17/2001	8.14	10.685	2.315	0.013	23.6
2567-MW7	8/16/2001	7.75	10.348	2.652	0.083	18.8
Geometric Mean of Hydraulic Conductivity (feet/day):						25.9

Notes:
DTW = Depth To Water
Depth to Static Water Level was estimated by subtracting 0.3 ft. from the measured DTW at the end of each test.
b = height of water in well at the beginning of the test.
DTW Adjustment = factor by which raw data was adjusted so final hermit data point equals final measured DTW.

Table 5-1
Groundwater Monitoring Well Sampling Results
Site 2567
Fort Monmouth, New Jersey

		Well ID	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1
Lab Sample ID	**NJDEP**	**Site Specific**	2446.06	2940.07	3188.06	3381.03	3605.03	3912.05	4144.03	4296.03	4524.03	4635.03	4872.01	5167.04	5417.01	5647.04	5825.04
Sample Date	**Criteria**	**MBC[1]**	04/11/97	08/28/97	12/02/97	03/04/98	06/01/98	09/24/98	12/16/98	02/24/99	05/29/99	07/21/99	10/21/99	02/14/00	05/15/00	08/22/00	11/01/00
		Round No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Volatiles																	
Acetone	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**1**	**N/A**	ND	**39.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	**300**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**NLE**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**2**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE[3]	**70**	**N/A**	ND	**240**	20.3	37	24.23	10.02	3.43	26.15	9.16	3.33	4.8	12.05	5.24	1.2	15.04
Di-isopropyl ether[3]	**100**	**N/A**	ND	ND	3.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl Alcohol (TBA)[3]	**100**	**N/A**	ND	ND	**357**	**560**	95.63	**283**	**143.26**	**675**	**605.1**	**155.56**	**497.3**	**992**	**458.88**	**218.42**	ND
Toluene	**1000**	**N/A**	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes[3]	**1000**	**N/A**	ND	72.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatiles																	
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	NS	NS	1.25	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene[3]	**100**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	**900**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine[3]	**100**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pesticides/PCBs			NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals																	
Aluminum	**200**	**121000**	NS	NS	128	186	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	**2000**	**699**	NS	NS	356.7	367.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	**20**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	**4**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	**NLE**	**45400**	NS	NS	46880	52030	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	**100**	**N/A**	NS	NS	1.8	3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	**NLE**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	**1000**	**65.6**	NS	NS	40	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	**300**	**431000**	NS	NS	**4112**	**5774**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	**10**	**N/A**	1.8	1.4	7	ND	0.5	ND	ND	ND	ND	ND	1.3	1.31	ND	ND	ND
Magnesium	**NLE**	**62700**	NS	NS	4970	5480	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	**50**	**331**	NS	NS	**92.8**	**107.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	**2**	**N/A**	NS	NS	0.4	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	**100**	**187**	NS	NS	2.4	2.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	**NLE**	**137000**	NS	NS	7120	7390	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	**50000**	**21500**	NS	NS	**76190**	48910	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	**NLE**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	**5000**	**233**	NS	NS	63	37	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and**bold**

*Sampling results that exceeded calibration limits were not run again with dilution due to a laboratory error.

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

D: Diluted Sample

NLE: No cleanup standard exists for this analyte

[1]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)

[2]Low Flow Sampling Method used to collect sample

[3]Interim Criteria used as NJDEP criteria

Table 5-1
Groundwater Monitoring Well Sampling Results
Site 2567
Fort Monmouth, New Jersey

		Well ID	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1	2567-MW1
Lab Sample ID	**NJDEP**	**Site Specific**	710	1615404	1621102	1610704	1635604	1657304	2011204	2033104	2058504	2076204	3008304	3028304	3039704	3063404	4004304
Sample Date	**Criteria**	**MBC[1]**	02/09/01	5/31/2001	6/25/2001	05/08/01	08/15/01	11/09/01	2/26/2002*	05/28/02	08/20/02	10/28/02	02/26/03	06/11/02	07/22/03	10/07/03	01/16/04
		Round No.	16	LF1[2]	LF2[2]	17	18	19	20	21	22	23	24	25	26	27	28
Volatiles																	
Acetone	**700**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**1**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	**300**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**NLE**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**700**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**2**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE[3]	**70**	**N/A**	4.83	NS	NS	2.1	ND	1.09	1.61	ND	ND	ND	ND	1.78	1.93	ND	2.08
Di-isopropyl ether[3]	**100**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl Alcohol (TBA)[3]	**100**	**N/A**	**1488.05**	NS	NS	**764.25**	**248.74**	ND	**859.38**	**331.75**	**441.16**	**259.69**	**828.6**	**186.42**	**205.86**	**175.48**	**224.08**
Toluene	**1000**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes[3]	**1000**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatiles																	
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	**900**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pesticides/PCBs			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals																	
Aluminum	**200**	**121000**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	**2000**	**699**	NS	526	0.528	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	**20**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	**4**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	**NLE**	**45400**	NS	68200	64.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	**100**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	**NLE**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	**1000**	**65.6**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	**300**	**431000**	NS	**8580**	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	**10**	**N/A**	ND	ND	ND	0.93	ND	ND	ND	ND	ND	1.22	1.4	ND	ND	ND	ND
Magnesium	**NLE**	**62700**	NS	**7900**	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	**50**	**331**	NS	**148**	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	**2**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	**100**	**187**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	**NLE**	**137000**	NS	6060	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	**50000**	**21500**	NS	**51200**	47.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	**NLE**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	**5000**	**233**	NS	9.4	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and**bold**

*Sampling results that exceeded calibration limits were not run again with dilution due to a laboratory error.

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

D: Diluted Sample

NLE: No cleanup standard exists for this analyte

[1]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)

[2]Low Flow Sampling Method used to collect sample

[3]Interim Criteria used as NJDEP criteria

Table 5-1
Groundwater Monitoring Well Sampling Results
Site 2567
Fort Monmouth, New Jersey

		Well ID	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2
Lab Sample ID	**NJDEP**	**Site Specific**	2446.05	2940.04	3188.03	3381.04	3605.04	3912.04	4144.04	4296.04	4524.04	4635.04	4872.02	5167.05	5417.02	5647.05	5825.05
Sample Date	**Criteria**	**MBC[1]**	04/11/97	08/28/97	12/02/97	03/04/98	06/01/98	09/24/98	12/16/98	02/24/99	05/29/99	07/21/99	10/21/99	02/14/00	05/15/00	08/22/00	11/01/00
		Round No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Volatiles																	
Acetone	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.99	ND
Benzene	**1**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	**300**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**NLE**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**2**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE[3]	**70**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl Alcohol (TBA)[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**1000**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes[3]	**1000**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatiles																	
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	NS	NS	ND	6.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene[3]	**100**	**N/A**	NS	NS	4.79	6.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	**900**	**N/A**	NS	NS	1.08	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine[3]	**100**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pesticides/PCBs			NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals																	
Aluminum	**200**	**121000**	NS	NS	78	**261**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	**2000**	**699**	NS	NS	796.2	188.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	**20**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	**4**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	**NLE**	**45400**	NS	NS	67840	21250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	**100**	**N/A**	NS	NS	1.7	1.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	**NLE**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	**1000**	**65.6**	NS	NS	8	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	**300**	**431000**	NS	NS	**16290**	**12450**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	**10**	**N/A**	**10.7**	ND	**20**	8	1.4	ND	ND	ND	ND	ND	1.2	1.49	ND	ND	ND
Magnesium	**NLE**	**62700**	NS	NS	7520	2030	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	**50**	**331**	NS	NS	**271.8**	**99.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	**2**	**N/A**	NS	NS	0.4	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	**100**	**187**	NS	NS	3.9	2.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	**NLE**	**137000**	NS	NS	8730	7880	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	**50000**	**21500**	NS	NS	**58690**	26640	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	**NLE**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	**5000**	**233**	NS	NS	53	93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and**bold**

*Sampling results that exceeded calibration limits were not run again with dilution due to a laboratory error.

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

D: Diluted Sample

NLE: No cleanup standard exists for this analyte

[1]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)

[2]Low Flow Sampling Method used to collect sample

[3]Interim Criteria used as NJDEP criteria

Table 5-1
Groundwater Monitoring Well Sampling Results
Site 2567
Fort Monmouth, New Jersey

		Well ID	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2	2567-MW2
Lab Sample ID	**NJDEP**	**Site Specific**	711	1616803	1621105	1610705	1635605	1657305	2011205	2033105	2058505	2076205	3008305	3028305	3039705	3063405	4004305
Sample Date	**Criteria**	**MBC[1]**	02/09/01	5/31/2001	6/25/2001	05/08/01	08/15/01	11/09/01	02/26/02	05/28/02	08/20/02	10/28/02	02/26/03	06/11/03	07/22/03	10/07/03	01/16/04
		Round No.	16	LF1	LF2	17	18	19	20	21	22	23	24	25	26	27	28
Volatiles																	
Acetone	**700**	**N/A**	ND	NS	NS	3.31	ND	ND	ND	ND	ND	ND	4.19	ND	ND	ND	ND
Benzene	**1**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	**300**	**N/A**	ND	NS	NS	2.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**NLE**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	1.94	ND	ND	ND	ND	ND	ND
Ethylbenzene	**700**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**2**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE[3]	**70**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether[3]	**100**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl Alcohol (TBA)[3]	**100**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**1000**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes[3]	**1000**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatiles																	
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	**900**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pesticides/PCBs			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals																	
Aluminum	**200**	**121000**	NS	72.1	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	**2000**	**699**	NS	398	283	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	**20**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	**4**	**N/A**	NS	ND	1.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	**NLE**	**45400**	NS	52400	26700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	**100**	**N/A**	NS	0.574	1.15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	**NLE**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	**1000**	**65.6**	NS	4.72	8.83	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	**300**	**431000**	NS	**5890**	**14300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	**10**	**N/A**	ND	ND	ND	1.02	ND	ND	ND	ND	ND	2.47	ND	ND	ND	0.831	ND
Magnesium	**NLE**	**62700**	NS	5490	3370	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	**50**	**331**	NS	**113**	**125**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	**2**	**N/A**	NS	0.13	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	**100**	**187**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	**NLE**	**137000**	NS	6630	4380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	**50000**	**21500**	NS	**98300**	27300	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	**NLE**	**N/A**	NS	ND	2.18	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	**5000**	**233**	NS	ND	27.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and**bold**

*Sampling results that exceeded calibration limits were not run again with dilution due to a laboratory error.

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

D: Diluted Sample

NLE: No cleanup standard exists for this analyte

[1]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)

[2]Low Flow Sampling Method used to collect sample

[3]Interim Criteria used as NJDEP criteria

Table 5-1
Groundwater Monitoring Well Sampling Results
Site 2567
Fort Monmouth, New Jersey

		Well ID	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3
Lab Sample ID	**NJDEP**	**Site Specific**	2446.07	2940.06	3188.07	3381.05	3605.05	3916.02	4144.06	4296.05	4524.05	4635.05	4872.03	5167.06	5417.03	5647.06	5825.06
Sample Date	**Criteria**	**MBC[1]**	04/11/97	08/28/97	12/02/97	03/04/98	06/01/98	09/25/98	12/16/98	02/24/99	05/29/99	07/21/99	10/21/99	02/14/00	05/15/00	08/22/00	11/01/00
		Round No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Volatiles																	
Acetone	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**1**	**N/A**	ND	ND	**4.31**	**19**	**4.68**	**5.96**	**15.45**	**1.03**	**1.7**	ND	ND	ND	ND	ND	ND
2-Butanone	**300**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**NLE**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	1.04	ND	ND	ND	ND	ND	ND
Methylene Chloride	**2**	**N/A**	ND	**25**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE[3]	**70**	**N/A**	ND	62	**188**	**102**	**81.82**	27.27	20.54	3.3	26.34	8.98	13.08	3.78	9.35	5.36	20.24
Di-isopropyl ether[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl Alcohol (TBA)[3]	**100**	**N/A**	ND	**940**	ND	ND	27.52	ND	19.38	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**1000**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes[3]	**1000**	**N/A**	ND	ND	ND	8.6	ND	3.62	3.67	ND	1.29	ND	ND	ND	ND	ND	ND
Semi-Volatiles																	
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	NS	NS	ND	1.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene[3]	**100**	**N/A**	NS	NS	1.92	1.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	**900**	**N/A**	NS	NS	3.9	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine[3]	**100**	**N/A**	NS	NS	4.5	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pesticides/PCBs			NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals																	
Aluminum	**200**	**121000**	NS	NS	**341**	**1832**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	**2000**	**699**	NS	NS	212.1	356.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	**20**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	**4**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	**NLE**	**45400**	NS	NS	27450	39820	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	**100**	**N/A**	NS	NS	1.5	3.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	**NLE**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	**1000**	**65.6**	NS	NS	79	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	**300**	**431000**	NS	NS	**5342**	**13860**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	**10**	**N/A**	2.5	ND	10	ND	ND	ND	ND	1	ND	ND	1.3	1.22	ND	ND	ND
Magnesium	**NLE**	**62700**	NS	NS	2910	4560	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	**50**	**331**	NS	NS	**56.6**	**144.4**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	**2**	**N/A**	NS	NS	0.4	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	**100**	**187**	NS	NS	2	1.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	**NLE**	**137000**	NS	NS	5440	6460	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	**50000**	**21500**	NS	NS	26920	39610	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	**NLE**	**N/A**	NS	NS	ND	2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	**5000**	**233**	NS	NS	81	30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and**bold**

*Sampling results that exceeded calibration limits were not run again with dilution due to a laboratory error.

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

D: Diluted Sample

NLE: No cleanup standard exists for this analyte

[1]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)

[2]Low Flow Sampling Method used to collect sample

[3]Interim Criteria used as NJDEP criteria

Table 5-1
Groundwater Monitoring Well Sampling Results
Site 2567
Fort Monmouth, New Jersey

		Well ID	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3	2567-MW3
Lab Sample ID	**NJDEP**	**Site Specific**	712	1616802	1621104	1610706	1635606	1657306	2011206	2033106	2058506	2076206	3008306	3028306	3039706	3063406	4004306
Sample Date	**Criteria**	**MBC[1]**	02/09/01	5/31/2001	6/25/2001	05/08/01	08/15/01	11/09/01	02/26/02	05/28/02	08/20/02	10/28/02	02/26/03	06/11/03	07/22/03	10/07/03	01/16/04
		Round No.	16	LF1	LF2	17	18	19	20	21	22	23	24	25	26	27	28
Volatiles																	
Acetone	**700**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	2.97	ND	ND	ND	ND
Benzene	**1**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	**300**	**N/A**	ND	ND	ND	ND	31.95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**NLE**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**2**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE[3]	**70**	**N/A**	1.96	NS	NS	11.95	17.8	5.51	4.14	3.13	ND	2.37	3.64	ND	6.82	4.56	ND
Di-isopropyl ether[3]	**100**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl Alcohol (TBA)[3]	**100**	**N/A**	ND	NS	NS	ND	67.42	ND	31.59	ND	ND	ND	ND	ND	ND	13.51	ND
Toluene	**1000**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes[3]	**1000**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38	ND
Semi-Volatiles																	
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	**900**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pesticides/PCBs			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals																	
Aluminum	**200**	**121000**	NS	195	22.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	**2000**	**699**	NS	298	275	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	**20**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	**4**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	**NLE**	**45400**	NS	32200	33100	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	**100**	**N/A**	NS	2.97	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	**NLE**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	**1000**	**65.6**	NS	6.27	9.93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	**300**	**431000**	NS	**12400**	**4670**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	**10**	**N/A**	ND	1.92	ND	0.96	ND	ND	ND	ND	ND	ND	ND	ND	0.983	ND	ND
Magnesium	**NLE**	**62700**	NS	3490	4030	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	**50**	**331**	NS	**137**	**74.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	**2**	**N/A**	NS	0.11	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	**100**	**187**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	**NLE**	**137000**	NS	4660	5470	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	**50000**	**21500**	NS	30700	**61100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	**NLE**	**N/A**	NS	2.46	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	**5000**	**233**	NS	22.7	16.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and**bold**

*Sampling results that exceeded calibration limits were not run again with dilution due to a laboratory error.

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

D: Diluted Sample

NLE: No cleanup standard exists for this analyte

[1]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)

[2]Low Flow Sampling Method used to collect sample

[3]Interim Criteria used as NJDEP criteria

Table 5-1
Groundwater Monitoring Well Sampling Results
Site 2567
Fort Monmouth, New Jersey

		Well ID	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4
Lab Sample ID	**NJDEP**	**Site Specific**	2446.03	2940.05	3188.04	3381.06	3605.07	3912.03	4144.05	4296.06	4524.06	4635.06	4872.04	5167.07	5417.08	5647.07	5825.07
Sample Date	**Criteria**	**MBC[1]**	04/11/97	08/28/97	12/02/97	03/04/98	06/01/98	09/24/98	12/16/98	02/24/99	05/29/99	07/21/99	10/21/99	02/14/00	05/15/00	08/22/00	11/01/00
		Round No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Volatiles																	
Acetone	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.57	ND
Benzene	**1**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	**300**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**NLE**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**2**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE[3]	**70**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl Alcohol (TBA)[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**1000**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes[3]	**1000**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatiles																	
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	NS	NS	ND	1.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene[3]	**100**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	**900**	**N/A**	NS	NS	1.37	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine[3]	**100**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pesticides/PCBs			NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals																	
Aluminum	**200**	**121000**	NS	NS	**1208**	**608**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	**2000**	**699**	NS	NS	156	103.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	**20**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	**4**	**N/A**	NS	NS	ND	2.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	**NLE**	**45400**	NS	NS	19850	14720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	**100**	**N/A**	NS	NS	9	1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	**NLE**	**N/A**	NS	NS	1.7	2.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	**1000**	**65.6**	NS	NS	14	11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	**300**	**431000**	NS	NS	**3586**	**4212**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	**10**	**N/A**	2.3	ND	9	ND	ND	ND	ND	ND	ND	ND	1.2	1.4	ND	ND	ND
Magnesium	**NLE**	**62700**	NS	NS	2320	1700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	**50**	**331**	NS	NS	**90**	**78.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	**2**	**N/A**	NS	NS	0.3	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	**100**	**187**	NS	NS	4.8	10.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	**NLE**	**137000**	NS	NS	2810	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	**50000**	**21500**	NS	NS	15600	12580	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	**NLE**	**N/A**	NS	NS	3	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	**5000**	**233**	NS	NS	57	79	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and**bold**

*Sampling results that exceeded calibration limits were not run again with dilution due to a laboratory error.

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

D: Diluted Sample

NLE: No cleanup standard exists for this analyte

[1]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)

[2]Low Flow Sampling Method used to collect sample

[3]Interim Criteria used as NJDEP criteria

Table 5-1
Groundwater Monitoring Well Sampling Results
Site 2567
Fort Monmouth, New Jersey

		Well ID	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4	2567-MW4
Lab Sample ID	**NJDEP**	**Site Specific**	713	1615403	1621103	1610707	1635607	1657307	2011207	2033107	2058507	2076207	3008307	3028307	3039707	3063407	4004307
Sample Date	**Criteria**	**MBC[1]**	02/09/01	5/31/2001	6/25/2001	05/08/01	08/15/01	11/09/01	02/26/02	05/28/02	08/20/02	10/28/02	02/26/03	06/11/03	07/22/03	10/07/03	01/16/04
		Round No.	16	LF1	LF2	17	18	19	20	21	22	23	24	25	26	27	28
Volatiles																	
Acetone	**700**	**N/A**	ND	NS	NS	4.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**1**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	**300**	**N/A**	ND	ND	ND	2.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**NLE**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**2**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE[3]	**70**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether[3]	**100**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl Alcohol (TBA)[3]	**100**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**1000**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes[3]	**1000**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatiles																	
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	**900**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pesticides/PCBs			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals																	
Aluminum	**200**	**121000**	NS	20.2	**602**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	**2000**	**699**	NS	233	196	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	**20**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	**4**	**N/A**	NS	ND	1.18	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	**NLE**	**45400**	NS	27100	20900	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	**100**	**N/A**	NS	0.729	1.79	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	**NLE**	**N/A**	NS	0.757	1.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	**1000**	**65.6**	NS	ND	29.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	**300**	**431000**	NS	**6510**	**4160**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	**10**	**N/A**	ND	ND	6.18	ND	2.2	ND	ND	ND	ND	ND	ND	2.26	1.22	ND	ND
Magnesium	**NLE**	**62700**	NS	3090	3240	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	**50**	**331**	NS	**160**	**118**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	**2**	**N/A**	NS	ND	0.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	**100**	**187**	NS	2.68	8.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	**NLE**	**137000**	NS	3300	2980	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	**50000**	**21500**	NS	22800	19300	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	**NLE**	**N/A**	NS	1.47	1.73	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	**5000**	**233**	NS	18.6	30.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and**bold**

*Sampling results that exceeded calibration limits were not run again with dilution due to a laboratory error.

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

D: Diluted Sample

NLE: No cleanup standard exists for this analyte

[1]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)

[2]Low Flow Sampling Method used to collect sample

[3]Interim Criteria used as NJDEP criteria

Table 5-1
Groundwater Monitoring Well Sampling Results
Site 2567
Fort Monmouth, New Jersey

		Well ID	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5
Lab Sample ID	**NJDEP**	**Site Specific**	2446.04	2940.03	3188.05	3381.08	3605.06	3916.03	4144.07	4296.07	4535.01	4635.07	4872.05	5167.08	5417.05	5647.08	5825.08
Sample Date	**Criteria**	**MBC[1]**	04/11/97	08/28/97	12/02/97	03/04/98	06/01/98	09/25/98	12/16/98	02/24/99	06/08/99	07/21/99	10/21/99	02/14/00	05/15/00	08/22/00	11/01/00
		Round No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Volatiles																	
Acetone	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**1**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	**300**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**NLE**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**2**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE[3]	**70**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl Alcohol (TBA)[3]	**100**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**1000**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes[3]	**1000**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatiles																	
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene[3]	**100**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	**900**	**N/A**	NS	NS	1.3	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine[3]	**100**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pesticides/PCBs			NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals																	
Aluminum	**200**	**121000**	NS	NS	**406**	**362.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	**2000**	**699**	NS	NS	93.1	58.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	**20**	**N/A**	NS	NS	1.3	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	**4**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	**NLE**	**45400**	NS	NS	21120	12180	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	**100**	**N/A**	NS	NS	5.5	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	**NLE**	**N/A**	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	**1000**	**65.6**	NS	NS	14	13.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	**300**	**431000**	NS	NS	**19180**	**16370**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	**10**	**N/A**	2.7	ND	7	ND	ND	ND	ND	1	ND	ND	4.4	1.21	ND	1.6	2.4
Magnesium	**NLE**	**62700**	NS	NS	3410	1961	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	**50**	**331**	NS	NS	**100.2**	**56.4**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	**2**	**N/A**	NS	NS	0.4	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	**100**	**187**	NS	NS	6.5	3.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	**NLE**	**137000**	NS	NS	3530	2675	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	**50000**	**21500**	NS	NS	10480	9134	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	**NLE**	**N/A**	NS	NS	5	6.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	**5000**	**233**	NS	NS	91	43.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and**bold**

*Sampling results that exceeded calibration limits were not run again with dilution due to a laboratory error.

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

D: Diluted Sample

NLE: No cleanup standard exists for this analyte

[1]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)

[2]Low Flow Sampling Method used to collect sample

[3]Interim Criteria used as NJDEP criteria

Table 5-1
Groundwater Monitoring Well Sampling Results
Site 2567
Fort Monmouth, New Jersey

		Well ID	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5	2567-MW5
Lab Sample ID	**NJDEP**	**Site Specific**	714	1615402	1621404	1610708	1635608	1657308	2011208	2033108	2058508	2076208	3008308	3028308	3039708	3063408	4004308
Sample Date	**Criteria**	**MBC[1]**	02/09/01	5/31/2001	6/26/2001	05/08/01	08/15/01	11/09/01	02/26/02	05/28/02	08/20/02	10/28/02	02/26/03	06/11/03	07/22/03	10/07/03	01/16/04
		Round No.	16	LF1	LF2	17	18	19	20	21	22	23	24	25	26	27	28
Volatiles																	
Acetone	**700**	**N/A**	ND	NS	NS	4.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**1**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	**300**	**N/A**	ND	ND	ND	2.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**NLE**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**2**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE[3]	**70**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether[3]	**100**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl Alcohol (TBA)[3]	**100**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**1000**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes[3]	**1000**	**N/A**	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatiles																	
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	**900**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pesticides/PCBs			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals																	
Aluminum	**200**	**121000**	NS	**893**	**557**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	**2000**	**699**	NS	86.8	68.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	**20**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	**4**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	**NLE**	**45400**	NS	21000	18000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	**100**	**N/A**	NS	5.32	5.04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	**NLE**	**N/A**	NS	1.96	0.803	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	**1000**	**65.6**	NS	6.17	12.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	**300**	**431000**	NS	**8850**	**3910**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	**10**	**N/A**	ND	8.47	3.21	4.53	8.4	9.7	6.5	3.6	**32.3**	**49.5**	3.57	**43.9**	**22.1**	**22.1**	ND
Magnesium	**NLE**	**62700**	NS	2910	2440	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	**50**	**331**	NS	**86.1**	46.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	**2**	**N/A**	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	**100**	**187**	NS	4.22	4.19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	**NLE**	**137000**	NS	3610	3470	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	**50000**	**21500**	NS	19200	17300	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	**NLE**	**N/A**	NS	8.23	4.74	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	**5000**	**233**	NS	57.5	36.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and**bold**

*Sampling results that exceeded calibration limits were not run again with dilution due to a laboratory error.

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

D: Diluted Sample

NLE: No cleanup standard exists for this analyte

[1]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)

[2]Low Flow Sampling Method used to collect sample

[3]Interim Criteria used as NJDEP criteria

Table 5-1
Groundwater Monitoring Well Sampling Results
Site 2567
Fort Monmouth, New Jersey

		Well ID	2567-MW6	2567-MW6	2567-MW6	2567-MW6	2567-MW6	2567-MW6	2567-MW6	2567-MW6	2567-MW6	2567-MW6	2567-MW6	2567-MW6	2567-MW6	2567-MW6	2567-MW6	2567-MW6	2567-MW6
Lab Sample ID	**NJDEP**	**Site Specific**	5647.09	5825.09	715	1616805	1621403	1610709	1635609	1657309	2011209	2033109	2058509	2076209	3008309	3028309	3039709	3063409	4004309
Sample Date	**Criteria**	**MBC[1]**	08/22/00	11/01/00	02/09/01	6/5/2001	6/26/2001	05/08/01	08/15/01	11/09/01	02/26/02	05/28/02	08/20/02	10/28/02	02/26/03	06/11/03	07/22/03	10/07/03	01/16/04
		Round No.	14	15	16	LF1	LF2	17	18	19	20	21	22	23	24	25	26	27	28
Volatiles																			
Acetone	**700**	**N/A**	4.02	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**1**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	**300**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**NLE**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**2**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE[3]	**70**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether[3]	**100**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl Alcohol (TBA)[3]	**100**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**1000**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes[3]	**1000**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatiles																			
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	**900**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pesticides/PCBs			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals																			
Aluminum	**200**	**121000**	NS	NS	NS	**381**	**320**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	**2000**	**699**	NS	NS	NS	94.3	79.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	**20**	**N/A**	NS	NS	NS	0.887	1.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	**4**	**N/A**	NS	NS	NS	ND	1.25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	**NLE**	**45400**	NS	NS	NS	11900	8170	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	**100**	**N/A**	NS	NS	NS	3.11	2.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	**NLE**	**N/A**	NS	NS	NS	2.09	5.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	**1000**	**65.6**	NS	NS	NS	2.53	19.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	**300**	**431000**	NS	NS	NS	**6000**	**3920**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	**10**	**N/A**	ND	ND	ND	ND	ND	1.48	ND	ND	ND	ND	1.32	ND	ND	ND	ND	ND	ND
Magnesium	**NLE**	**62700**	NS	NS	NS	1700	1360	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	**50**	**331**	NS	NS	NS	44.2	29.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	**2**	**N/A**	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	**100**	**187**	NS	NS	NS	5.77	10.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	**NLE**	**137000**	NS	NS	NS	2510	1930	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	**50000**	**21500**	NS	NS	NS	18100	15000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	**NLE**	**N/A**	NS	NS	NS	1.74	0.871	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	**5000**	**233**	NS	NS	NS	61.8	101	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and**bold**

*Sampling results that exceeded calibration limits were not run again with dilution due to a laboratory error.

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

D: Diluted Sample

NLE: No cleanup standard exists for this analyte

[1]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)

[2]Low Flow Sampling Method used to collect sample

[3]Interim Criteria used as NJDEP criteria

Table 5-1
Groundwater Monitoring Well Sampling Results
Site 2567
Fort Monmouth, New Jersey

		Well ID	2567-MW7	2567-MW7	2567-MW7	2567-MW7	2567-MW7	2567-MW7	2567-MW7	2567-MW7	2567-MW7	2567-MW7	2567-MW7	2567-MW7	2567-MW7	2567-MW7	2567-MW7	2567-MW7	2567-MW7
Lab Sample ID	**NJDEP**	**Site Specific**	5647.1	5825.1	716	1616804	1621402	1610710	1635610	1657310	2011210	2033110	2058510	2076210	3008310	3028310	3039710	3063410	4004310
Sample Date	**Criteria**	**MBC[1]**	08/22/00	11/01/00	02/09/01	6/5/2001	6/26/2001	05/08/01	08/15/01	11/09/01	02/26/02	05/28/02	08/20/02	10/28/02	02/26/03	06/11/03	07/22/03	10/07/03	01/16/04
		Round No.	14	15	16	LF1	LF2	17	18	19	20	21	22	23	24	25	26	27	28
Volatiles																			
Acetone	**700**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	**1**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	**300**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**NLE**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**700**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**2**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE[3]	**70**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether[3]	**100**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl Alcohol (TBA)[3]	**100**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**1000**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes[3]	**1000**	**N/A**	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatiles																			
bis(2-Ethylhexyl)phthalate	**30**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	**900**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine[3]	**100**	**N/A**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pesticides/PCBs			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Metals																			
Aluminum	**200**	**121000**	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	**2000**	**699**	NS	NS	NS	220	255	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	**20**	**N/A**	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	**4**	**N/A**	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	**NLE**	**45400**	NS	NS	NS	25500	30100	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	**100**	**N/A**	NS	NS	NS	0.852	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	**NLE**	**N/A**	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	**1000**	**65.6**	NS	NS	NS	2.78	10.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	**300**	**431000**	NS	NS	NS	**5250**	**6520**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	**10**	**N/A**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.855	ND	ND	ND
Magnesium	**NLE**	**62700**	NS	NS	NS	2950	4380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	**50**	**331**	NS	NS	NS	**113**	**157**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	**2**	**N/A**	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	**100**	**187**	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	**NLE**	**137000**	NS	NS	NS	4260	4970	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	**50000**	**21500**	NS	NS	NS	33300	30800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	**NLE**	**N/A**	NS	NS	NS	0.75	0.602	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	**5000**	**233**	NS	NS	NS	13.9	9.11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and**bold**

*Sampling results that exceeded calibration limits were not run again with dilution due to a laboratory error.

ND: Analyte not detected in sample

N/A: Not Applicable NS: Not Sampled

D: Diluted Sample

NLE: No cleanup standard exists for this analyte

[1]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)

[2]Low Flow Sampling Method used to collect sample

[3]Interim Criteria used as NJDEP criteria

Table 5-2
Geoprobe Groundwater Sampling Results
Site 2567
Fort Monmouth, New Jersey

		Geoprobe ID	GW-1	GW-2	GW-3	W-1	W-2	W-3	W-4
Lab Sample ID	**NJDEP**	**Site Specific**	4008903	4008905	4008906	4031603	4031604	4031606	4031607
Sample Date	**Criteria**	**MBC[1]**	02/02/04	02/02/04	02/02/04	04/30/04	04/30/04	04/30/04	04/30/04
Volatiles									
MTBE[2]	**70**	**N/A**	5.52	2.63	0.47	3.37	3.29	1.2	ND
tert-Butyl Alcohol (TBA)[2]	**100**	**N/A**	ND	ND	46	ND	ND	ND	ND

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb)

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) per NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and**bold**

ND: Analyte not detected in sample

N/A: Not Applicable

[1]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)

[2]Interim Criteria used as NJDEP criteria

Table 5-3
Determination of Contaminants of Concern
Site 2567
Fort Monmouth, New Jersey

Analyte	NJDEP Criteria[1]	Site Specific Groundwater MBC[2]	Maximum Result	No. of NJDEP Criteria Exceedences	No. of Site Maximum Background Exceedences	Comments
Volatiles						
Acetone	**700**	N/A	5.99	0	N/A	No exceedence of NJDEP criteria
Benzene	**1**	**N/A**	**39.4**	**8**	**N/A**	**Not a Contaminant of Concern. Benzene has not been detected at Site 2567 since July 1999.**
2-Butanone	300	N/A	31.95	0	N/A	No exceedence of NJDEP criteria
Carbon Disulfide	NLE	N/A	1.94	0	N/A	No exceedence of NJDEP criteria
Ethylbenzene	**700**	N/A	1.04	0	N/A	No exceedence of NJDEP criteria
Methylene Chloride	**2**	**N/A**	**25**	**1**	**N/A**	**Not a Contaminant of Concern: only one exceedence of NJDEP Cleanup Criteria.**
MTBE[3]	**70**	**N/A**	**240**	**4**	**N/A**	**Not a Contaminant of Concern. MTBE has not been detected in wells at Site 2567 above the NJDEP Groundwater Criteria [1] since June 1998.**
Di-isopropyl ether[3]	**100**	N/A	3.66	0	N/A	No exceedence of NJDEP criteria
Tert-Butyl Alcohol (TBA)[3]	**100**	**N/A**	**1488.05**	**24**	**N/A**	**Contaminant of Concern. exceedences primarily at well 2567-MW1. There was only one other well with an exceedence of the NJDEP criteria (2567-MW3 in August 1997).**
Toluene	**1000**	N/A	1.3	0	N/A	No exceedence of NJDEP criteria
Xylenes[3]	**1000**	N/A	72.7	0	N/A	No exceedence of NJDEP criteria
Semi-Volatiles						
bis(2-Ethylhexyl)phthalate	**30**	N/A	6.98	0	N/A	No exceedence of NJDEP criteria
Naphthalene[3]	**100**	N/A	6.98	0	N/A	No exceedence of NJDEP criteria
Di-n-butylphthalate	**900**	N/A	3.9	0	N/A	No exceedence of NJDEP criteria
Pyridine[3]	**100**	N/A	4.5	0	N/A	No exceedence of NJDEP criteria

Table 5-3
Determination of Contaminants of Concern
Site 2567
Fort Monmouth, New Jersey

Analyte	NJDEP Criteria[1]	Site Specific Groundwater MBC[2]	Maximum Result	No. of NJDEP Criteria Exceedences	No. of Site Maximum Background Exceedences	Comments
Pesticides/PCBs: None Detected						
Metals						
Aluminum	**200**	**121000**	**1832**	**7**	**0**	**Not a Contaminant of Concern: no exceedence of the Site Specific MBC**
Barium	**2000**	699	796.2	0	1	No exceedence of NJDEP criteria
Beryllium	**20**	N/A	1.3	0	N/A	No exceedence of NJDEP criteria
Cadmium	**4**	N/A	2.2	0	N/A	No exceedence of NJDEP criteria
Calcium	**NLE**	45400	67840	N/A	3	No NJDEP Groundwater Criteria
Chromium	**100**	N/A	9	0	N/A	No exceedence of NJDEP criteria
Cobalt	**NLE**	N/A	2.5	N/A	N/A	No NJDEP Groundwater Criteria
Copper	**1000**	65.6	79	0	1	No exceedence of NJDEP criteria
Iron	**300**	**431000**	**19180**	**10**	**0**	**Not a Contaminant of Concern: no exceedence of the Site Specific MBC**
Lead	**10**	**N/A**	**49.5**	**7**	**N/A**	**Not a Contaminant of Concern: only seven exceedences of NJDEP criteria at two monitoring wells.**
Magnesium	**NLE**	62700	7520	N/A	0	No NJDEP Groundwater Criteria
Manganese	**50**	**331**	**271.8**	**10**	**0**	**Not a Contaminant of Concern: no exceedence of the Site Specific MBC.**
Mercury	**2**	N/A	0.4	0	N/A	No exceedence of NJDEP criteria
Nickel	**100**	187	10.8	0	0	No exceedence of NJDEP criteria
Potassium	**NLE**	137000	8730	N/A	0	No NJDEP Groundwater Criteria
Sodium	**50000**	**21500**	**76190**	**2**	**6**	**Not a Contaminant of Concern due to the proximity of the site to sea water.**
Vanadium	**NLE**	N/A	6.8	N/A	N/A	No NJDEP Groundwater Criteria
Zinc	**5000**	233	93	0	0	No exceedence of NJDEP criteria

Notes:
All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb).
NJDEP GWQC: New Jersey Department of Environmental Protection Groundwater Quality Criteria.
N/A = Not Applicable
Exceeds NJDEP GWQC =
ND: Analyte not detected in sample
NLE: No limit established for this analyte
[1]Higher of Practical Quantitation Limits (PQLs) and Groundwater Quality Criteria (GWQC) per NJAC 7:9-6
[2]Fort Monmouth Site-specific Groundwater Maximum Background Concentrations (MBCs), background (native) metals only (Weston SI Report Dated 1995)
[3]Interim Criteria used as NJDEP criteria

Table 5-4
Aquifer Dissolved Oxygen
Site 2567
Fort Monmouth, New Jersey

2567-MW1		2567-MW2		2567-MW3		2567-MW4		2567-MW5	
Sample Date	DO (mg/L)	Sample Date	DO (mg/L)	Sample Date	DO (mg/L)	Sample Date	DO (mg/L)	Sample Date	DO (mg/L)
04/11/97	3.00	04/11/97	2.50	04/11/97	2.50	04/11/97	2.40	04/11/97	2.20
08/28/97	2.40	08/28/97	2.40	08/28/97	2.20	08/28/97	2.50	08/28/97	3.40
12/02/97	1.40	12/02/97	1.90	12/02/97	1.00	12/02/97	1.50	12/02/97	1.80
03/04/98	4.10	03/04/98	5.40	03/04/98	3.50	03/04/98	3.50	03/04/98	2.60
06/01/98	2.10	06/01/98	2.30	06/01/98	2.20	06/01/98	1.70	06/01/98	1.10
09/24/98	5.18	09/24/98	5.92	09/25/98	6.90	09/24/98	6.76	09/25/98	7.27
12/16/98	7.87	12/16/98	6.72	12/16/98	7.33	12/16/98	7.63	12/16/98	8.04
02/24/99	3.85	02/24/99	3.27	02/24/99	3.37	02/24/99	3.64	02/24/99	3.68
05/29/99	4.77	05/29/99	5.70	05/29/99	2.95	05/29/99	4.27	06/08/99	4.80
07/21/99	3.07	07/21/99	2.77	07/21/99	3.31	07/21/99	3.74	07/21/99	4.18
10/21/99	4.33	10/21/99	4.37	10/21/99	4.41	10/21/99	4.57	10/21/99	4.17
02/14/00	5.17	02/14/00	5.16	02/14/00	4.71	02/14/00	5.20	02/14/00	5.19
05/15/00	4.23	05/15/00	4.81	05/15/00	4.57	05/15/00	5.34	05/15/00	5.36
08/22/00	3.17	08/22/00	3.07	08/22/00	3.04	08/22/00	3.11	08/22/00	3.24
11/01/00	3.87	11/01/00	3.21	11/01/00	3.37	11/01/00	3.71	11/01/00	3.76
02/09/01	5.22	02/09/01	5.07	02/09/01	5.07	02/09/01	5.20	02/09/01	5.31
05/08/01	5.17	05/08/01	5.14	05/08/01	5.05	05/08/01	5.20	05/08/01	5.18
08/15/01	0.01	08/15/01	0.05	08/15/01	0.00	08/15/01	0.13	08/15/01	0.17
11/09/01	1.40	11/09/01	0.73	11/09/01	0.41	11/09/01	1.16	11/09/01	0.87
02/26/02	1.60	02/26/02	0.98	02/26/02	1.11	02/26/02	1.08	02/26/02	0.97
05/28/02	2.10	05/28/02	1.97	05/28/02	1.97	05/28/02	2.11	05/28/02	1.66
08/20/02	2.71	08/20/02	2.47	8/20/2002	2.91	08/20/02	2.31	08/20/02	2.32
10/28/02	0.00	10/28/02	0.29	10/28/02	0.08	10/28/02	0.63	10/28/02	5.10
02/26/03	1.03	02/26/03	2.17	02/26/03	2.69	02/26/03	2.99	02/26/03	2.50
06/11/03	1.84	06/11/03	2.11	06/11/03	2.52	06/11/03	2.32	06/11/03	2.30
07/22/03	0.40	07/22/03	0.43	07/22/03	0.40	07/22/03	0.52	07/22/03	1.38
10/07/03	1.74	10/07/03	1.11	10/07/03	1.96	10/07/03	2.01	10/07/03	2.03
01/16/04	2.61	01/16/04	2.21	01/16/04	2.08	01/16/04	2.17	01/16/04	2.17
Min:	0.00	Min:	0.05	Min:	0.00	Min:	0.13	Min:	0.17
Max:	7.87	Max:	6.72	Max:	7.33	Max:	7.63	Max:	8.04
Average:	3.01	Average:	3.01	Average:	2.91	Average:	3.12	Average:	3.31

Table 5-4
Aquifer Dissolved Oxygen
Site 2567
Fort Monmouth, New Jersey

2567-MW6	
Sample Date	DO (mg/L)
08/22/00	3.27
11/01/00	3.81
02/09/01	5.27
05/08/01	5.23
08/15/01	0.30
11/09/01	0.89
02/26/02	1.17
05/28/02	1.07
08/20/02	2.04
10/28/02	1.17
02/26/03	1.71
06/11/03	2.01
07/22/03	0.91
10/07/03	2.10
01/16/04	2.09
Min:	0.30
Max:	5.27
Average:	2.20

2567-MW7	
Sample Date	DO (mg/L)
08/22/00	3.31
11/01/00	3.87
02/09/01	NA
05/08/01	5.22
08/15/01	0.05
11/09/01	0.42
02/26/02	1.04
05/28/02	1.02
08/20/02	1.98
10/28/02	0.39
02/26/03	1.38
06/11/03	2.30
07/22/03	0.57
10/07/03	2.17
01/16/04	2.23
Min:	0.05
Max:	5.22
Average:	1.85

Notes:
1.) DO: Dissolved Oxygen
2.) NA: Not Available

Table 6-1
tert-Butyl Alcohol Biodegradation at Monitoring Well 2567-MW1
Site 2567 - Charles Woods Area
Fort Monmouth, New Jersey

Duration of tert-Butyl Alcohol Degradation Based on Published Biodegradation Rate		
Input		
Parameters	**Units**	**Constituent: tert-Butyl Alcohol (TBA)**
Δt	**days**	**90**
$T_{1/2}$	**days**	**365**
k (1)	**$days^{-1}$**	**0.00190**
Initial Concentration, C_0 (2)	**µg/L**	**1488.05**
February 9, 2001		
Calculation and Results		
Time (days)	**Date**	**Predicted Concentrations, C (ug/L)**
0	February 9, 2001	1488.05
90	May 10, 2001	1254.27
180	August 8, 2001	1057.22
270	November 6, 2001	891.12
360	February 4, 2002	751.12
450	May 5, 2002	633.12
540	August 3, 2002	533.65
630	November 1, 2002	449.81
720	January 30, 2003	379.14
810	April 30, 2003	319.58
900	July 29, 2003	269.37
990	October 27, 2003	227.05
1080	January 25, 2004	191.38
1170	April 24, 2004	161.31
1260	July 23, 2004	135.97
1350	October 21, 2004	114.61
1440	January 19, 2005	96.60
Time until NJDEP criteria is reached:		
1,440	**January 19, 2005**	**96.60**
New Jersey Criteria	**µg/L**	**100**

Notes:
NJ Critera = Interim Groundwater Quality Criteria
Constituent Predicted Concentration: $C_p(t) = C_p(t-1) * e^{-k\Delta t}$
Time to reach NJ Criteria = TNJC
Reaction Rate Constant = $k = -\ln(0.5)/t_{1/2}$

Length of Impacted Area Based on Available Published Biodegradation Rates		
Input Data		
Hydraulic Conductivity(3) (K)	**ft/day**	**25.9**
Hydraulic Gradient(4) (i):	**ft/ft**	**0.02**
Effective Porosity(5) (n_e):	**---**	**0.4**
Bulk Density of Formation(5) (ρ_b)	**kg/L**	**1.59**
n-Octanol/Carbon Partition(6) (K_{oc}):	**L/kg**	**2.27**
Fraction of Organic Carbon(7) (f_{oc})	**---**	**0.003**
Sorption Coefficient (K_d)	**L/kg**	**0.007**
Calculation and Results		
Seepage Velocity (ft/day)	vs = K*i/ne =	1.295
Retardation Factor	Rd = 1 + (Kd * ρ_b / ne) =	1.03
Pollutant Transport Rate (ft/day)	vpt = vs/Rd =	1.261
or (ft/year)		460.22
TNJC (days)	**Determined above**	**1,440**
TNJC (years)		**3.9**
Length (ft)	**vpt * TNJC =**	**1,800**

Notes:
(1) Half-Life for aerobic biodegradation in groundwater, upper limit: Howard, P.H. et. al. 1991. *Handbook of Environmental Degradation Rates.* Lewis Publishers.
(2) Initial concentration (Co) is the most recent concentration that was detected during the groundwater monitoring program.
(3) Hydraulic conductivity of surficial fill, K = 25.9 ft/day (Geometeric mean of slug tests performed by Versar in August 2001)
(4) Hydraulic gradient (i) derived from ground water elevation contours (August 2000)
(5) Effective porosity, n = 0.4, and bulk density, ρ_b = 1.5 g/mL (consistent with the type of soil - clayey sands, at the Site).
(6) K_{oc} data reference: USEPA Soil Screeening Guidance 1996.
(7) f_{oc} = 0.003 (the geometric mean of the minimum and maximum range of f_{oc}). *USEPA 1996* .

Table 6-2
Well Search Summary
Site 2567 - Charles Wood Area
Fort Monmouth, New Jersey

NJDEP Permit Number	Depth (feet)	Use*	Permit Date	Lattitude	Longitude
2900151	300	D	7/13/1951	401746	740546
2901121	70	D	6/2/1954	401706	740519
2901154	70	D	6/17/1954	401800	740546
2903374	50	D	8/15/1960	401733	740546
2903863	90	D	6/29/1962	401733	740546
2905076	100	D	5/20/1966	401733	740546
2907536	150	D	6/14/1974	401813	740533
2908442	60	D	8/3/1976	401826	740426
2911733	150	D	12/4/1981	401813	740533
2912070	40	G	5/14/1982	401720	740346
2912719	40	G	4/8/1983	401726	740406
2913187	80	G	9/12/1983	401819	740446
2913524	20	M	3/21/1984	401712	740406
2913525	20	M	3/21/1984	401712	740406
2913526	20	M	3/21/1984	401712	740406
2913527	20	M	3/21/1984	401712	740406
2913528	20	M	3/21/1984	401712	740406
2913529	20	M	3/21/1984	401712	740406
2913551	20	M	3/21/1984	401712	740406
2913552	20	M	3/21/1984	401712	740406
2913553	20	M	3/21/1984	401712	740406
2913581	50	E	7/20/1984	401712	740406
2914431	20	G	1/15/1985	401819	740446
2916207	220	D	2/17/1986	401726	740406
2916766	20	M	6/30/1986	401659	740432
2916767	20	M	6/30/1986	401659	740432
2916768	20	M	6/30/1986	401659	740432
2916769	20	M	6/30/1986	401659	740432
2916770	20	M	6/30/1986	401659	740432
2916771	20	M	6/30/1986	401659	740432
2916772	20	M	6/30/1986	401659	740432
2916773	20	M	6/30/1986	401659	740432
2916774	20	M	6/30/1986	401659	740432
2916775	15	M	6/30/1986	401752	740552
2916776	15	M	6/30/1986	401752	740552
2916777	20	M	6/30/1986	401659	740512
2916778	20	M	6/30/1986	401659	740512
2916779	20	M	6/30/1986	401726	740406
2916780	20	M	6/30/1986	401659	740446
2916781	20	M	6/30/1986	401659	740446
2916782	20	M	6/30/1986	401659	740446
2916783	20	M	6/30/1986	401659	740446
2916784	20	M	6/30/1986	401659	740446
2916785	20	M	6/30/1986	401659	740446
2916786	15	M	6/30/1986	401712	740406
2916787	15	M	6/30/1986	401712	740406
2916788	20	M	6/30/1986	401659	740432
2916789	20	M	6/30/1986	401659	740432
2917933	13	W	2/10/1987	401739	740406
2917934	13	W	2/10/1987	401739	740406
2917935	13	W	2/10/1987	401739	740406
2917936	13	W	2/10/1987	401739	740406
2917937	13	W	2/10/1987	401739	740406
2917938	13	W	2/10/1987	401739	740406
2917939	13	W	2/10/1987	401739	740406
2917940	13	W	2/10/1987	401739	740406
2917941	13	W	2/10/1987	401739	740406
2917942	13	W	2/10/1987	401739	740406
2917943	13	W	2/10/1987	401739	740406

NJDEP Permit Number	Depth (feet)	Use*	Permit Date	Lattitude	Longitude
2917944	13	W	2/10/1987	401739	740406
2917945	13	W	2/10/1987	401739	740406
2917946	13	W	2/10/1987	401739	740406
2917947	13	W	2/10/1987	401739	740406
2917948	13	W	2/10/1987	401739	740406
2917949	13	W	2/10/1987	401739	740406
2917950	13	W	2/10/1987	401739	740406
2917951	13	W	2/10/1987	401739	740406
2917952	13	W	2/10/1987	401739	740406
2918127	13	W	3/17/1987	401739	740406
2918128	13	W	3/17/1987	401739	740406
2918129	13	W	3/17/1987	401739	740406
2918130	13	W	3/17/1987	401739	740406
2918131	13	W	3/17/1987	401739	740406
2918132	13	W	3/17/1987	401739	740406
2918579	13	W	5/18/1987	401746	740413
2918580	13	W	5/18/1987	401746	740413
2918581	13	W	5/18/1987	401746	740413
2918582	13	W	5/18/1987	401746	740413
2918583	13	W	5/18/1987	401746	740413
2918584	13	W	5/18/1987	401746	740413
2918585	13	W	5/18/1987	401746	740413
2918586	13	W	5/18/1987	401746	740413
2918587	13	W	5/18/1987	401746	740413
2918588	13	W	5/18/1987	401746	740413
2918589	13	W	5/18/1987	401746	740413
2918590	13	W	5/18/1987	401746	740413
2919285	40	M	9/11/1987	401720	740413
2919286	40	M	9/11/1987	401720	740413
2919287	40	M	9/11/1987	401720	740413
2919288	40	M	9/11/1987	401720	740413
2919540	200	D	11/9/1987	401733	740453
2920979	80	G	7/20/1988	401720	740346
2921634	200	G	10/19/1988	401733	740346
2921698	190	R	11/9/1988	401813	740519
2921967	30	M	12/22/1988	401733	740533
2922685	30	M	5/1/1989	401746	740519
2922686	30	M	5/1/1989	401746	740519
2922982	35	M	6/8/1989	401653	740453
2923160	30	M	7/17/1989	401733	740533
2923339	20	B	8/23/1989	401706	740440
2923916	20	M	12/11/1989	401720	740506
2923917	20	M	12/11/1989	401720	740506
2923918	20	M	12/11/1989	401720	740506
2923919	20	M	12/11/1989	401720	740453
2923920	20	M	12/11/1989	401720	740453
2923921	20	M	12/11/1989	401720	740453
2923922	10	B	12/11/1989	401720	740506
2923923	10	B	12/11/1989	401720	740506
2923924	10	B	12/11/1989	401720	740506
2923925	10	B	12/11/1989	401720	740453
2923926	10	B	12/11/1989	401720	740453
2923927	10	B	12/11/1989	401720	740453
2923928	10	B	12/11/1989	401720	740453
2923929	10	B	12/11/1989	401720	740453
2923930	10	B	12/11/1989	401720	740453
2923931	10	B	12/11/1989	401720	740453
2923932	10	B	12/11/1989	401720	740453
2923933	10	B	12/11/1989	401720	740453

Table 6-2
Well Search Summary
Site 2567 - Charles Wood Area
Fort Monmouth, New Jersey

NJDEP Permit Number	Depth (feet)	Use*	Permit Date	Lattitude	Longitude
2923934	10	B	12/11/1989	401720	740453
2923935	10	B	12/11/1989	401720	740453
2923936	10	B	12/11/1989	401720	740453
2923937	10	B	12/11/1989	401720	740453
2923938	10	B	12/11/1989	401720	740453
2923939	10	B	12/11/1989	401720	740453
2923940	10	B	12/11/1989	401720	740453
2923941	10	B	12/11/1989	401720	740453
2923942	10	B	12/11/1989	401720	740453
2923943	10	B	12/11/1989	401720	740453
2923944	10	B	12/11/1989	401720	740453
2924555	30	M	4/10/1990	401733	740533
2924890	30	B	6/12/1990	401800	740453
2924891	30	B	6/12/1990	401800	740453
2924892	30	B	6/12/1990	401800	740453
2924893	30	B	6/12/1990	401800	740453
2924894	30	B	6/12/1990	401800	740453
2924895	30	B	6/12/1990	401800	740453
2924896	30	B	6/12/1990	401800	740453
2924897	30	B	6/12/1990	401800	740453
2924898	30	B	6/12/1990	401800	740453
2924899	30	B	6/12/1990	401800	740453
2925352	3	M	10/10/1990	401733	740533
2925775	13	M	1/29/1991	401720	740506
2926312	13	M	6/6/1991	401720	740506
2926590	25	M	7/18/1991	401706	740506
2926591	25	M	7/18/1991	401706	740506
2926592	25	M	7/18/1991	401706	740506
2926724	60	D	8/8/1991	401653	740453
2927443	25	M	1/21/1992	401733	740546
2927444	25	M	1/21/1992	401733	740546
2927453	25	M	1/23/1992	401733	740546
2927643	20	Z	3/5/1992	401813	740426
2927644	20	Z	3/5/1992	401813	740426
2927645	20	Z	3/5/1992	401813	740426
2927756	20	Z	3/31/1992	401733	740453
2927757	20	Z	3/31/1992	401733	740453
2927758	20	Z	3/31/1992	401733	740453
2928781	25	M	9/22/1992	401720	740546
2928782	25	M	9/22/1992	401720	740546
2929189	78	Y	12/30/1992	401653	740453
2929421	25	M	3/23/1993	401720	740506
2929607	25	M	4/29/1993	401720	740546
2929623	25	M	5/4/1993	401720	740546
2929742	30	M	6/3/1993	401733	740519
2929743	30	M	6/3/1993	401733	740519
2929744	30	M	6/3/1993	401733	740519
2929745	30	M	6/3/1993	401733	740519
2929752	14	M	6/3/1993	401706	740519
2929753	14	M	6/3/1993	401706	740519
2929754	14	M	6/3/1993	401706	740519
2930115	45	M	8/19/1993	401800	740346
2930116	45	M	8/19/1993	401800	740346
2930117	45	M	8/19/1993	401800	740346
2930118	45	M	8/19/1993	401800	740346
2930119	45	M	8/19/1993	401800	740346
2930120	45	M	8/19/1993	401800	740346
2930480	20	M	11/18/1993	401800	740400
2930494	35	M	11/24/1993	401800	740346

NJDEP Permit Number	Depth (feet)	Use*	Permit Date	Lattitude	Longitude
2930495	35	M	11/24/1993	401800	740346
2930514	20	M	12/3/1993	401720	740453
2930958	15	M	4/5/1994	401800	740506
2930959	15	M	4/5/1994	401800	740506
2930960	15	M	4/5/1994	401800	740506
2930969	15	M	4/5/1994	401746	740533
2931238	15	Z	5/11/1994	401733	740506
2931239	15	M	5/11/1994	401733	740506
2931240	15	M	5/11/1994	401733	740506
2931561	20	M	7/5/1994	401813	740413
2931562	20	M	7/5/1994	401813	740413
2931563	20	M	7/5/1994	401813	740413
2932158	60	G	9/27/1994	401813	740440
2932159	60	G	9/27/1994	401813	740440
2932160	60	G	9/27/1994	401813	740440
2932161	60	G	9/27/1994	401813	740440
2932162	60	G	9/27/1994	401813	740440
2932163	60	G	9/27/1994	401813	740440
2932590	25	M	11/29/1994	401746	740519
2932591	25	M	11/29/1994	401746	740519
2932592	25	M	11/29/1994	401746	740519
2932593	25	M	11/29/1994	401746	740519
2932594	25	M	11/29/1994	401746	740519
2932595	25	M	11/29/1994	401746	740519
2932596	25	M	11/29/1994	401746	740519
2932597	25	M	11/29/1994	401746	740519
2932598	25	M	11/29/1994	401746	740519
2932599	25	M	11/29/1994	401800	740440
2932600	25	M	11/29/1994	401800	740440
2932601	25	M	11/29/1994	401800	740440
2932602	25	M	11/29/1994	401800	740440
2932603	25	M	11/29/1994	401800	740440
2932604	25	M	11/29/1994	401800	740519
2932605	25	M	11/29/1994	401800	740519
2932894	20	M	3/1/1995	401720	740533
2932895	20	M	3/1/1995	401720	740533
2932896	20	V	3/1/1995	401720	740533
2932897	20	J	3/1/1995	401720	740533
2933763	20	M	7/19/1995	401813	740440
2934753	15	M	1/10/1996	401733	740453
2934754	15	M	1/10/1996	401733	740453
2934755	15	M	1/10/1996	401733	740453
2935236	100	G	4/23/1996	401720	740413
2935462	180	D	5/29/1996	401813	740533
2936178	180	D	10/31/1996	401813	740533
2936179	180	D	10/31/1996	401813	740533
2936202	180	D	11/7/1996	401813	740533
2936204	180	D	11/7/1996	401813	740533
2936284	180	D	11/25/1996	401813	740533
2936563	10	V	2/5/1997	401720	740533
2936564	6	V	2/5/1997	401720	740533
2936565	6	V	2/5/1997	401720	740533
2936566	6	V	2/5/1997	401720	740533
2936567	6	V	2/5/1997	401720	740533
2936568	35	V	2/5/1997	401720	740533
2936569	35	V	2/5/1997	401720	740533
2936570	35	V	2/5/1997	401720	740533
2936571	20	M	2/5/1997	401720	740533
2936653	180	D	2/28/1997	401813	740533

Table 6-2
Well Search Summary
Site 2567 - Charles Wood Area
Fort Monmouth, New Jersey

NJDEP Permit Number	Depth (feet)	Use*	Permit Date	Lattitude	Longitude
2936654	180	D	2/28/1997	401813	740533
2936658	180	D	3/4/1997	401813	740533
2936753	10	M	3/31/1997	401720	740506
2936968	100	G	5/20/1997	401720	740426
2936969	100	G	5/20/1997	401720	740426
2937036	10	V	6/4/1997	401720	740533
2937037	35	V	6/4/1997	401720	740533
2937899	50	B	11/20/1997	401800	740506
2938654	180	U	5/15/1998	401826	740519
2938660	100	G	5/15/1998	401720	740426
2939028	180	I	7/30/1998	401813	740519

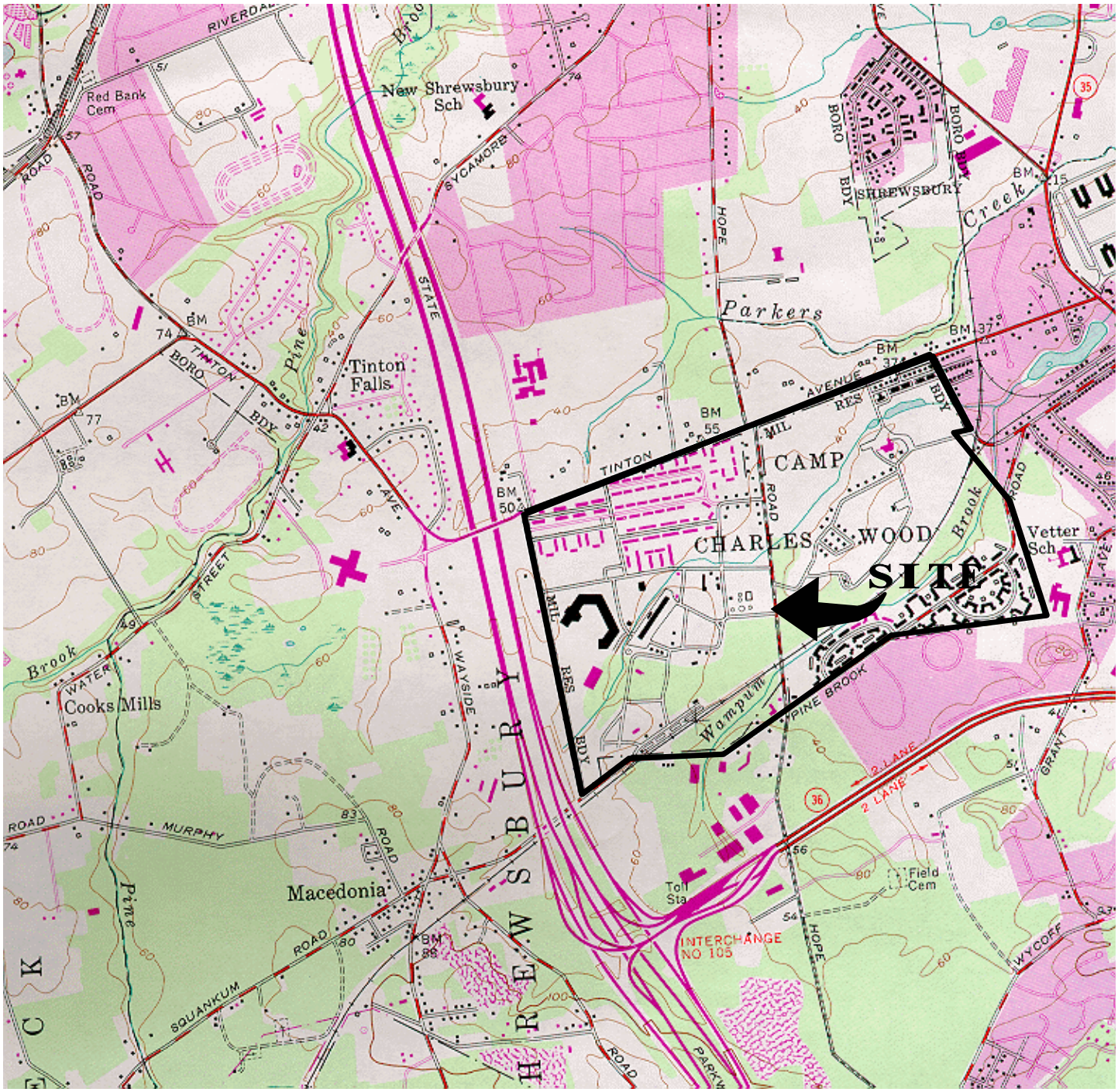
Notes:
Source: State of New Jersey Department of Environmental Protection - Well Permitting and Regulations Section of the Bureau of Water Allocation, Trenton, NJ.
Search date: 6 August 2001.

Well search was performed for a 1-mile radius surrounding the center point of Site 2567, U.S. Army Garrison Fort Monmouth, Fort Monmouth, New Jersey.

2567 Location: latitude = North 40° 17' 45",
longitude = West 74° 04' 46".

***Well Use Codes**
A - Unknown/Well Record Use Only
B - Boring
C - Commercial
D - Domestic (Potable)
E - Recovery/Decontamination Pollution Control/Leachate with Pump Capacity
F - Fire
G - Irrigation
H - Heat Pump/Geothermal (Return Well)
I - Industrial
J - Injection
K - Inclinometer
L - Livestock
M - Monitoring Well (Observation)
N - Public Non Community
O - Oil/Gas Exploration
P - Public Supply
Q - Recharge
R - Replacement (Replacement Codes: 1 - Domestic, 2 - Public Community, 5 - Irrigation)
S - Closed Loop
T - Test
U - Non Public (Supply)
V - Gas Vent
W - Dewatering
X - Agricultural/Horticultural/IrrigationWells
Y - Cathodic Protection
Z - Piezometer

FIGURES



LONG BRANCH, N. J.

40073-C8-TF-024

1954

PHOTOREVISED 1981

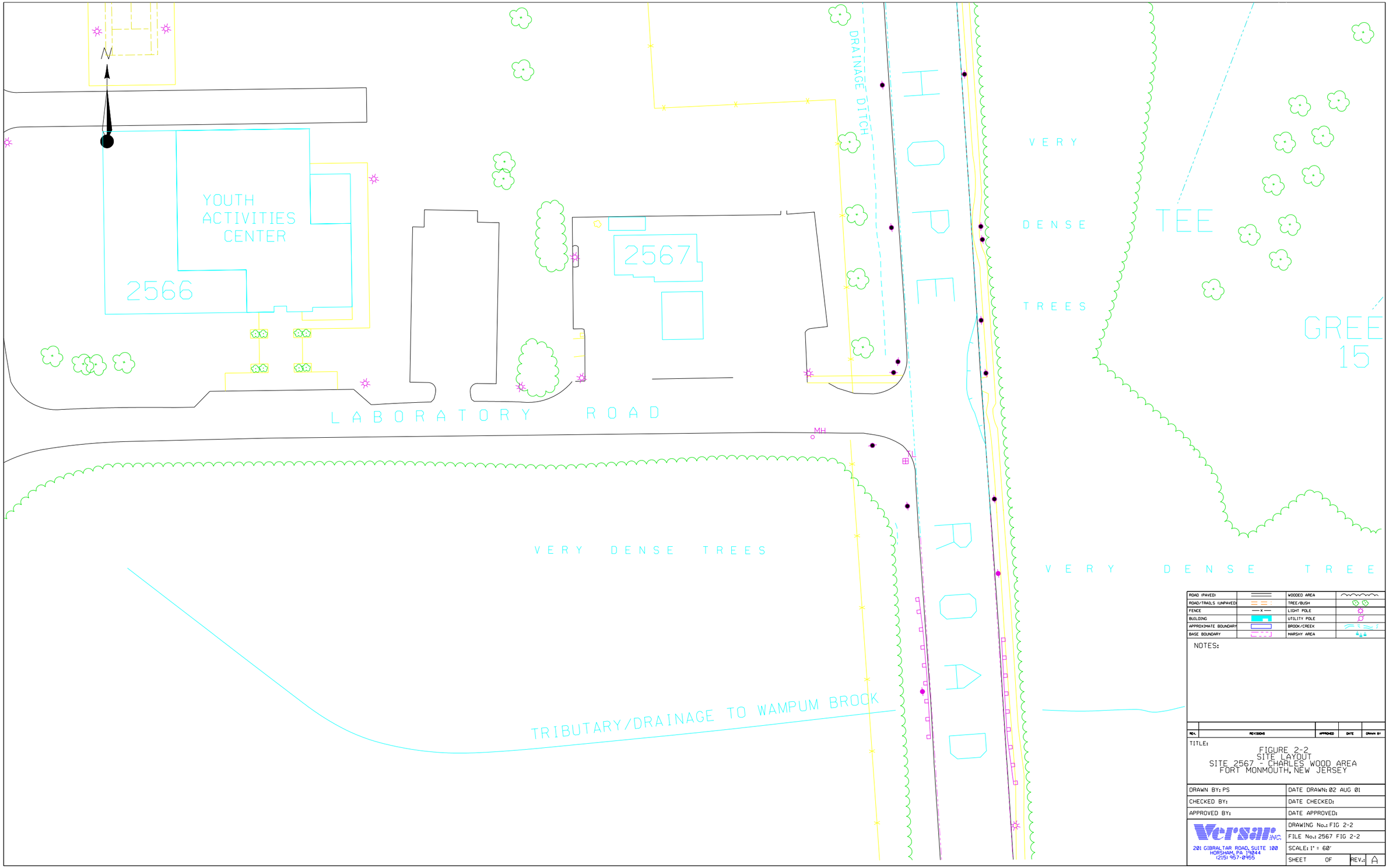
DMA 6164 I SE-SERIES V822

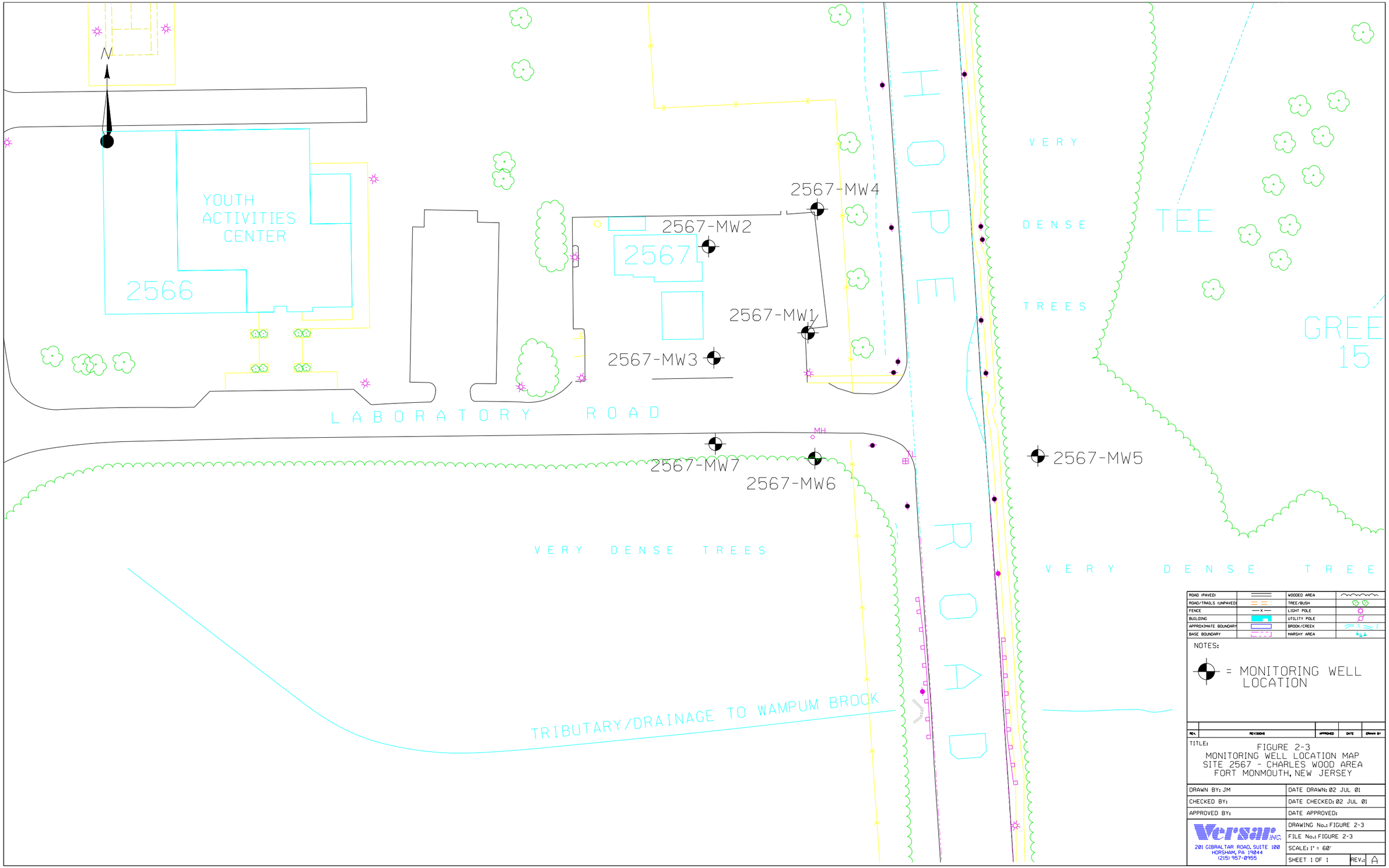
QUADRANGLE LOCATION

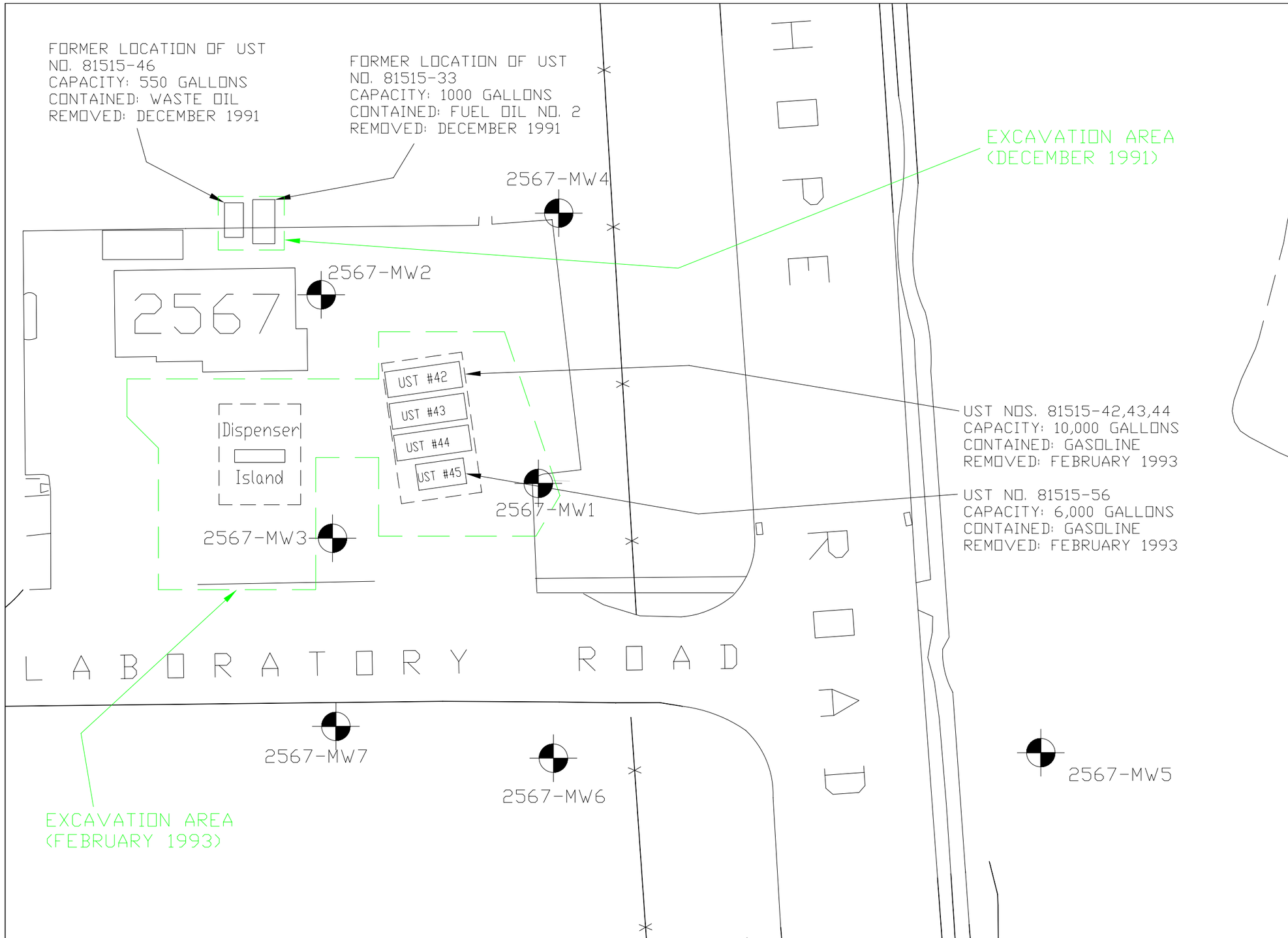
Mapped, edited and published by the Geological Survey

Figure 2-1
Site Location Map
Site 2567
Fort Monmouth, New Jersey

Versar INC.
201 Gibraltar Road, Suite 100
Horsham, PA 19044
(215) 957-0955


N
YOUTH ACTIVITIES CENTER
2566
2567
LABORATORY ROAD
MH
DRAINAGE DITCH
HOPE ROAD
VERY DENSE TREES
TEE
GREE
15
VERY DENSE TREES
VERY DENSE TREE
TRIBUTARY/DRAINAGE TO WAMPUM BROCK
ROAD (PAVED)
ROAD/TRAILS (UNPAVED)
FENCE
BUILDING
APPROXIMATE BOUNDARY
BASE BOUNDARY
WOODED AREA
TREE/BUSH
LIGHT POLE
UTILITY POLE
BROOK/CREEK
MARSHY AREA
NOTES:
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 2-2
SITE LAYOUT
SITE 2567 - CHARLES WOOD AREA
FORT MONMOUTH, NEW JERSEY
DRAWN BY: PS
DATE DRAWN: 02 AUG 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0455
DRAWING No.: FIG 2-2
FILE No.: 2567 FIG 2-2
SCALE: 1" = 60'
SHEET OF
REV.: A


N
YOUTH ACTIVITIES CENTER
2566
2567
2567-MW1
2567-MW2
2567-MW3
2567-MW4
2567-MW5
2567-MW6
2567-MW7
MH
LABORATORY ROAD
ROAD
VERY DENSE TREES
VERY DENSE TREES
VERY DENSE TREE
TEE
GREE
15
TRIBUTARY/DRAINAGE TO WAMPUM BROCK
ROAD (PAVED)
ROAD/TRAILS (UNPAVED)
FENCE
BUILDING
APPROXIMATE BOUNDARY
BASE BOUNDARY
WOODED AREA
TREE/BUSH
LIGHT POLE
UTILITY POLE
BROOK/CREEK
MARSHY AREA
NOTES:
= MONITORING WELL LOCATION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 2-3
MONITORING WELL LOCATION MAP
SITE 2567 - CHARLES WOOD AREA
FORT MONMOUTH, NEW JERSEY
DRAWN BY: JM
DATE DRAWN: 02 JUL 01
CHECKED BY:
DATE CHECKED: 02 JUL 01
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 2-3
FILE No.: FIGURE 2-3
SCALE: 1" = 60'
SHEET 1 OF 1
REV.: A



30 15 0 30

SCALE IN FEET

NOTES:

BUILDING

ROAD/CURB

FENCE

MONITORING WELL (CURRENT)

EXCAVATION AREA

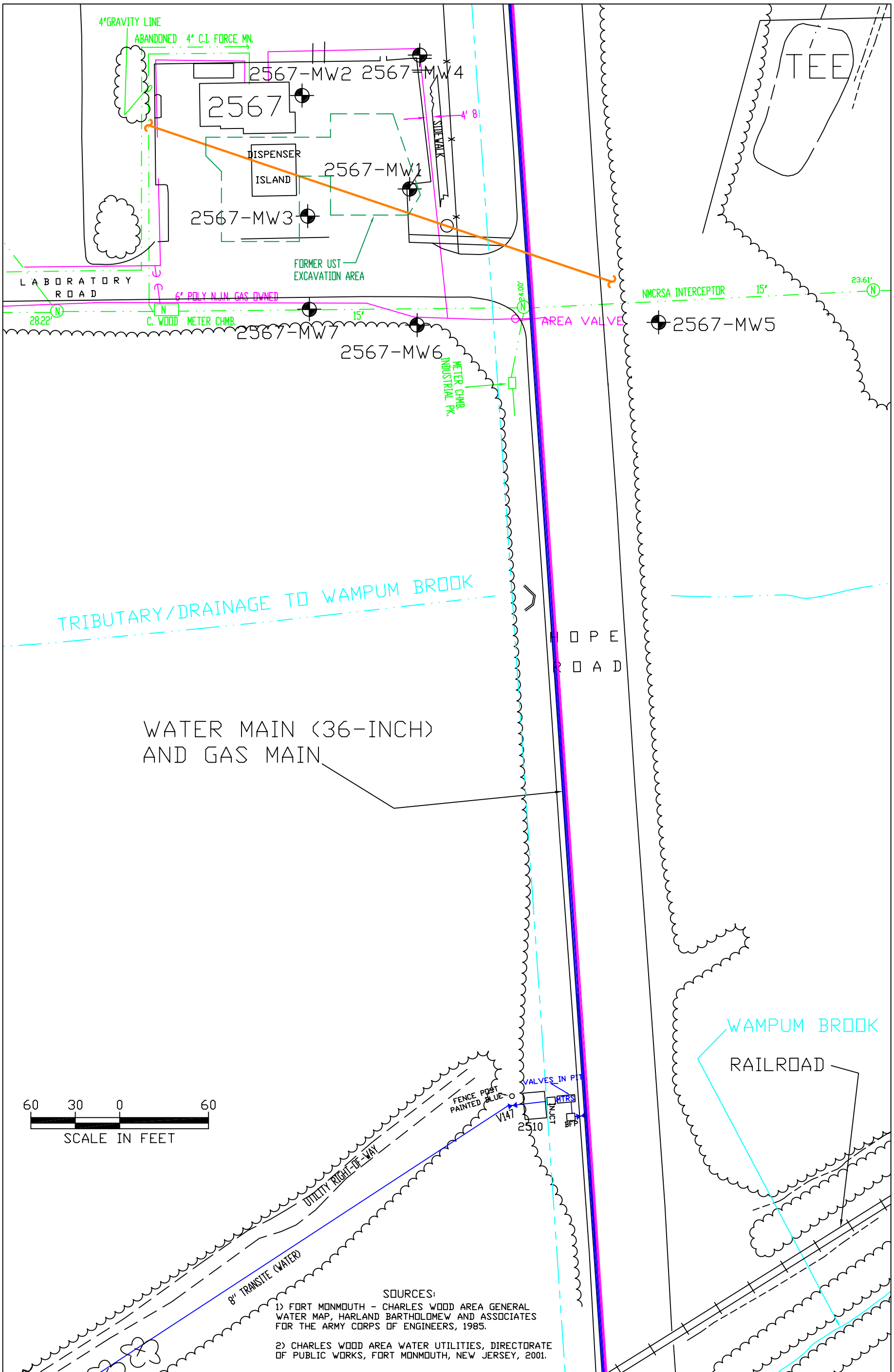
REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:

FIGURE 2-4
FORMER UST LOCATION MAP
SITE 2567 - CHARLES WOOD AREA
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 5 SEP 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
	DRAWING No.: FIGURE 2-4
	FILE No.: 2567 FIGURE 2-4
	SCALE: 1" = 30'
	SHEET 1 OF 1 REV.: A

Versar INC.
2558 PEARL BUCK ROAD, SUITE 1
BRISTOL, PA 19007
(215) 788-7844



NOTES:

- BUILDING
- ROAD/CURB
- FENCE
- MONITORING WELL
- TREES/VEGETATION
- CULVERT
- SANITARY SEWER
- 28.22 (N) NMCRSA MANHOLE (S) WITH INVERT ELEVATION (FT ABOVE MEAN SEA LEVEL
- GAS
- WATER
- ABANDONED SEWER LINE
- SWALE

N

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:
FIGURE 2-5
UNDERGROUND UTILITIES LOCATION MAP
SITE 2567 - CHARLES WOOD AREA
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 11 DEC 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
Versar INC. 201 GIBRALTAR ROAD, SUITE 100 HORSHAM, PA 19044 (215) 957-0955	DRAWING No.: FIGURE 2-5
	FILE No.: 2567 FIGURE 2-5
	SCALE: 1" = 60'
	SHEET 1 OF 1 REV.: A

Geologic Map of New Jersey

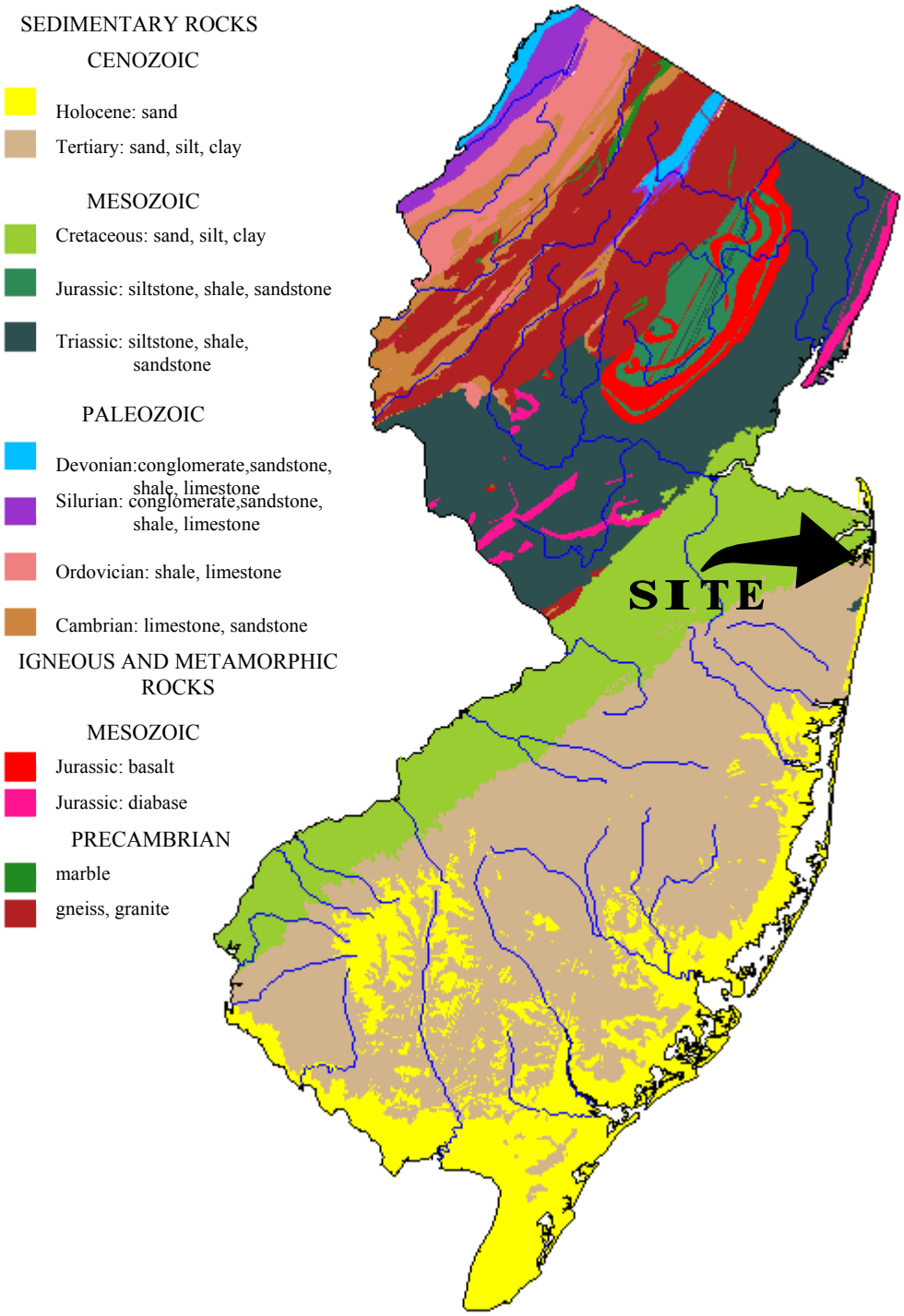
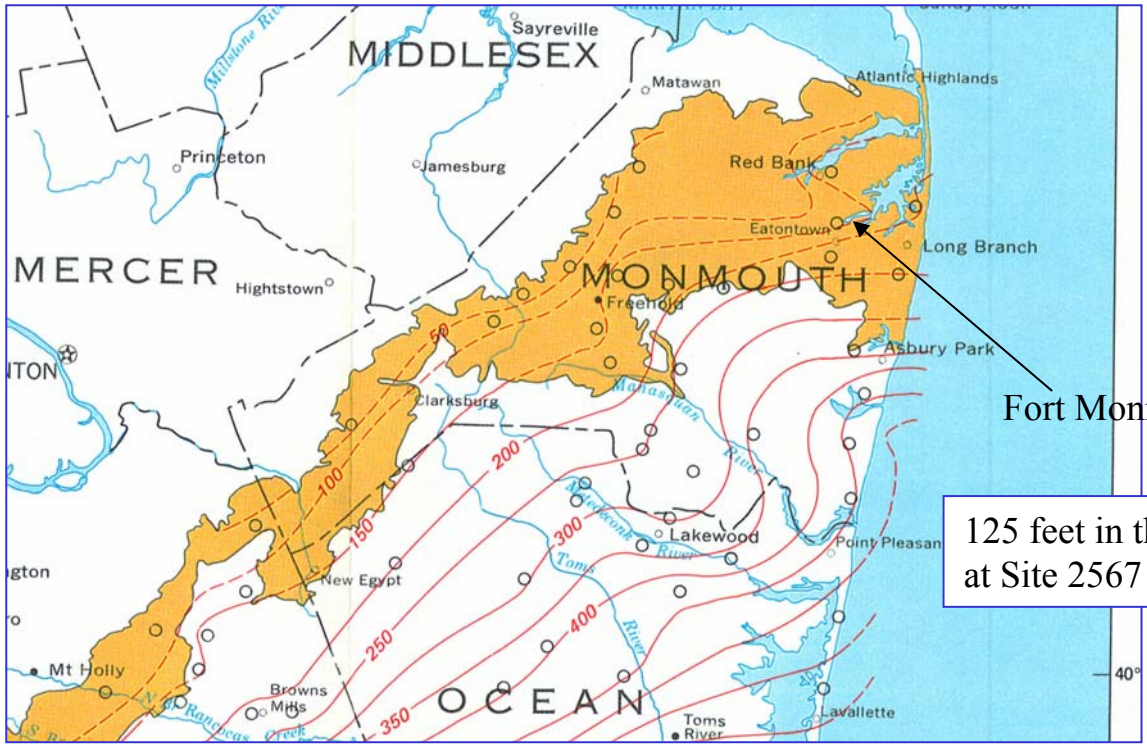


FIGURE 2-6
Geologic Map of New Jersey
Site 2567
Fort Monmouth, New Jersey

Versar INC.
2558 Pearl Buck Road, Suite 1
Bristol, Pennsylvania, 19007
(215)-788-7844

Source: New Jersey Geologic Survey, 1994, *Geologic Map of New Jersey*.



Fort Monmouth

125 feet in thickness at Site 2567

EXPLANATION

Outcrop area of the Navesink Formation, Red Bank Sand, Tinton Sand, Hornerstown Sand, Vincentown Formation, and Manasquan Formation

600 — Line of equal thickness of the composite confining bed approximately located. Interval 50 feet — Dashed where

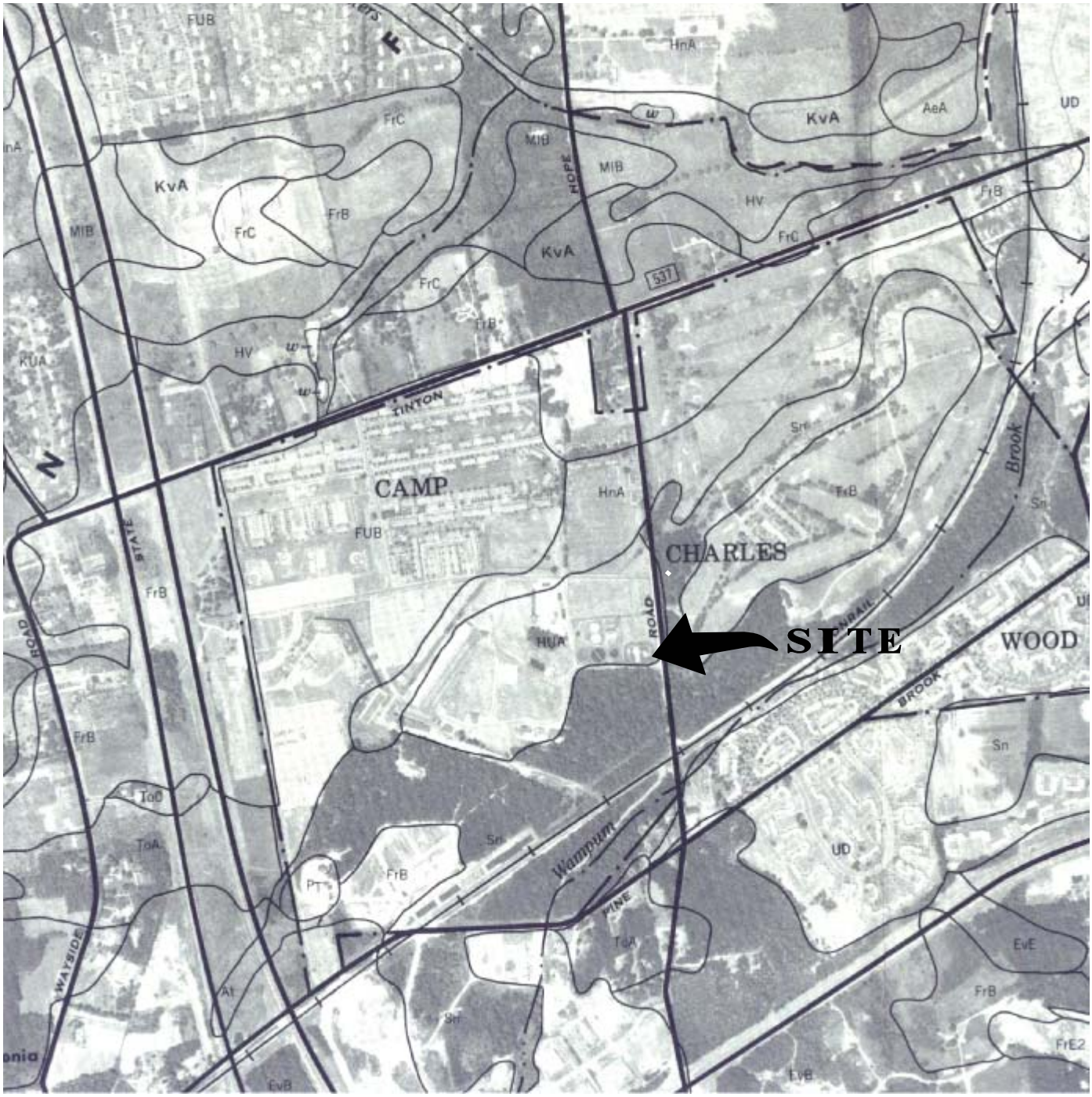
Well location

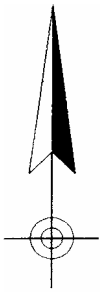
Source: Zapecza, O. 1989. *Hydrogeologic Framework of the New Jersey Coastal Plain.* USGS Professional Paper 1404-B. U.S. Government Printing Office, Washington, DC.

FIGURE 2-7

Outcrop and Thickness of Composite Confining Unit Site-2567 Fort Monmouth, New Jersey

Versar INC.
2558 Pearl Buck Road, Suite 1
Bristol, PA 19007
(215) 788-7844

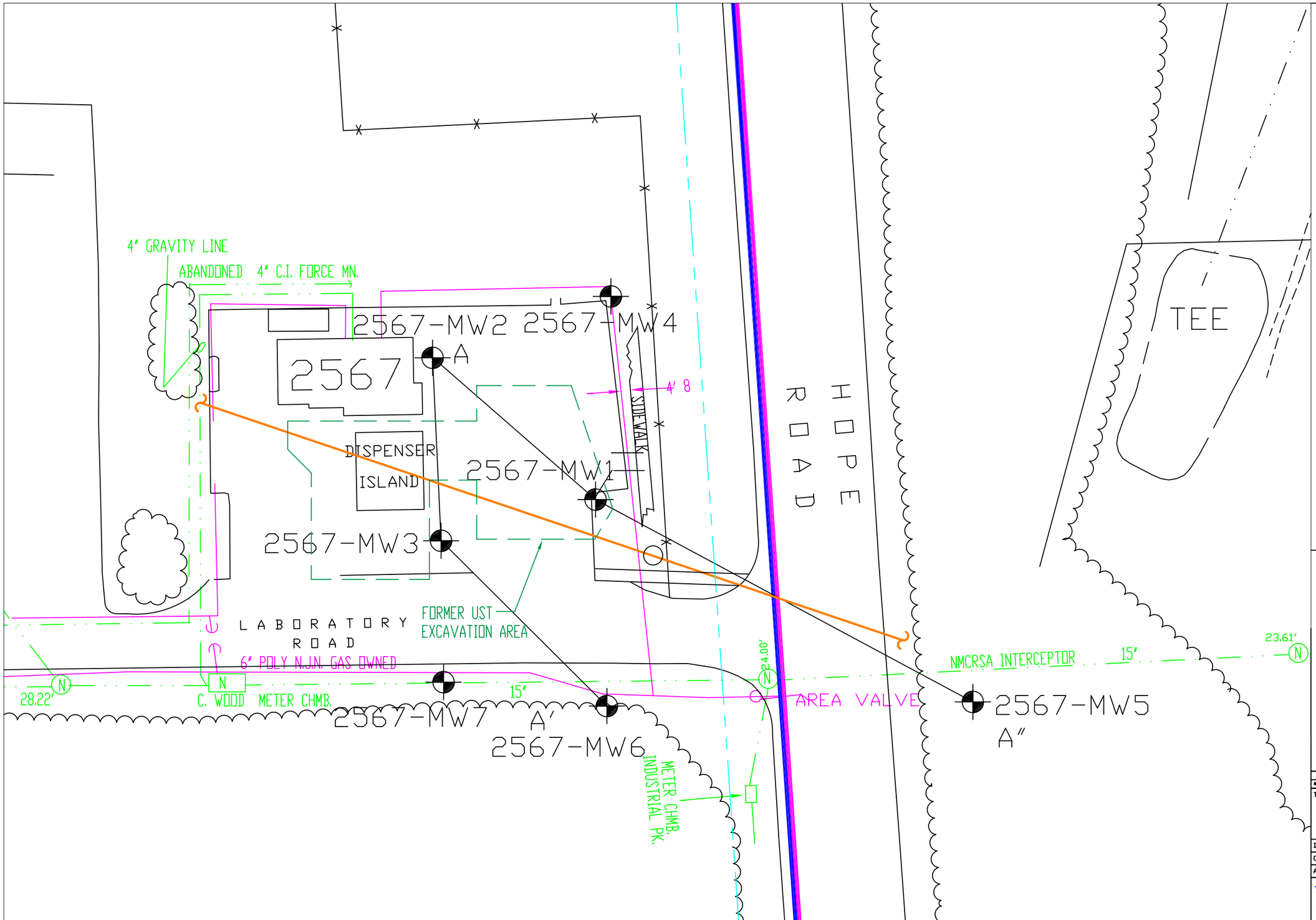




US Department of Agriculture
Soil Conservation Service
Soil Survey of Monmouth County, NJ
April 1989

Figure 2-8
Soil Map of Monmouth County
Site 2567
Fort Monmouth, New Jersey

Versar INC.
201 Gibraltar Road, Suite 100
Horsham, PA 19044
(215) 957-0955



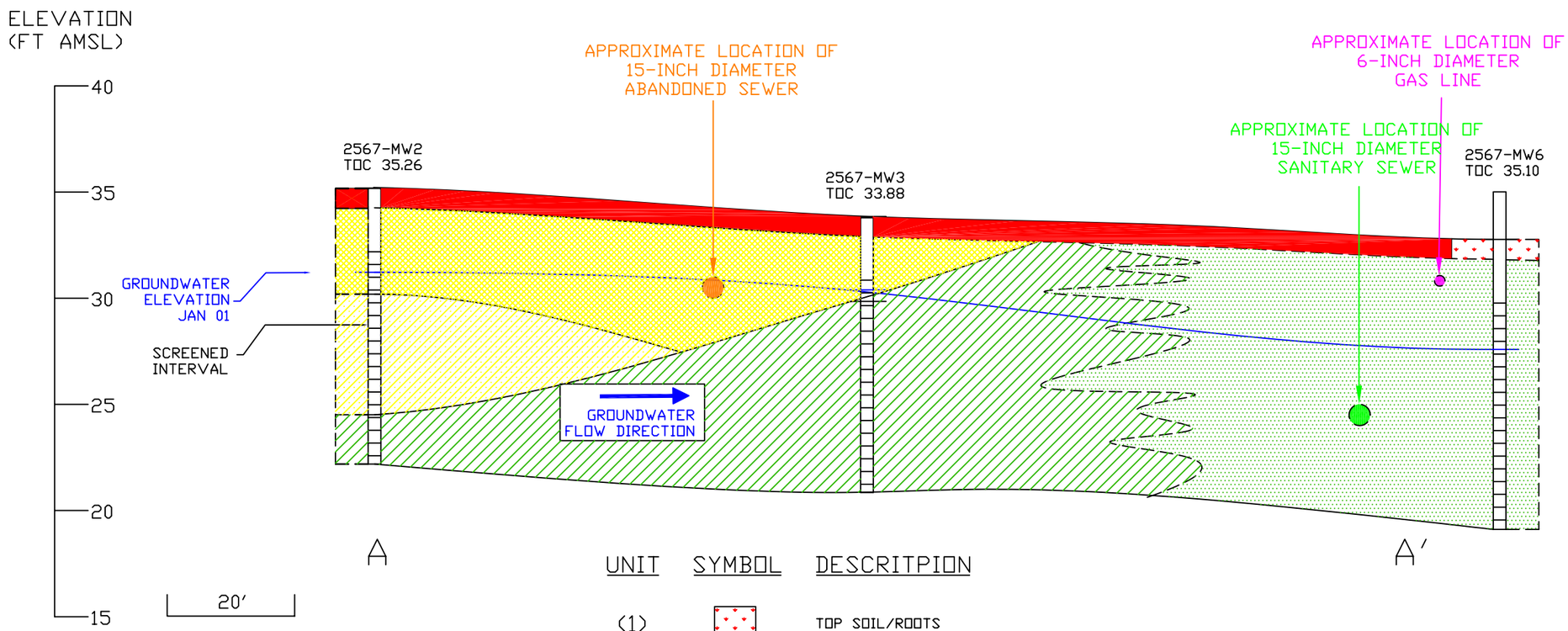
NOTES:

- BUILDING
- ROAD/CURB
- FENCE
- WOODED AREA
- MONITORING WELL
- SANITARY SEWER
- 28.22' (N) NMCRSA MANHOLE (S) WITH INVERT ELEVATION (FT ABOVE MEAN SEA LEVEL
- GAS
- WATER
- ABANDONED SEWER LINE
- SWALE
- APPROXIMATE GROUNDWATER FLOW DIRECTION

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:
FIGURE 4-1
GEOLOGIC CROSS SECTION LOCATION MAP
SITE 2567 - CHARLES WOOD AREA
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 5 SEP 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
Versar INC. 201 GIBRALTAR ROAD, SUITE 100 HORSHAM, PA 19044 (215) 957-0955	DRAWING No.: FIGURE 4-1
	FILE No.: 2567 FIGURE 4-1
	SCALE: 1" = 40'
	SHEET 1 OF 1 REV.: A



UNIT	SYMBOL	DESCRITPION
(1)		TOP SOIL/ROOTS
(2)		ASPHALT/BASE STONE
(3)		LIGHT ORANGE SAND - FILL
(4)		LIGHT GREEN SAND - FILL
		TINTON FORMATION
(5)		DARK BROWN/BLACK CLAY WITH SOME FINE SAND
(6)		MEDIUM FINE SAND

NOTES:

1) CROSS SECTION LINE (A TO A') IS SHOWN ON FIGURE 4-1.

2) VERTICAL SCALE: 1" = 6'.
HORIZONTAL SCALE: 1" = 20'.
VERTICAL EXAGGERATION = 3.33.

3) TOC = ELEVATION OF INNER WELL CASING SURVEY MARK (FEET AMSL).

4) EACH OF THE WELLS HAS A DIAMETER OF 4 INCHES, WHICH IS ENLARGED ON THIS DRAWING FOR PRESENTATION.

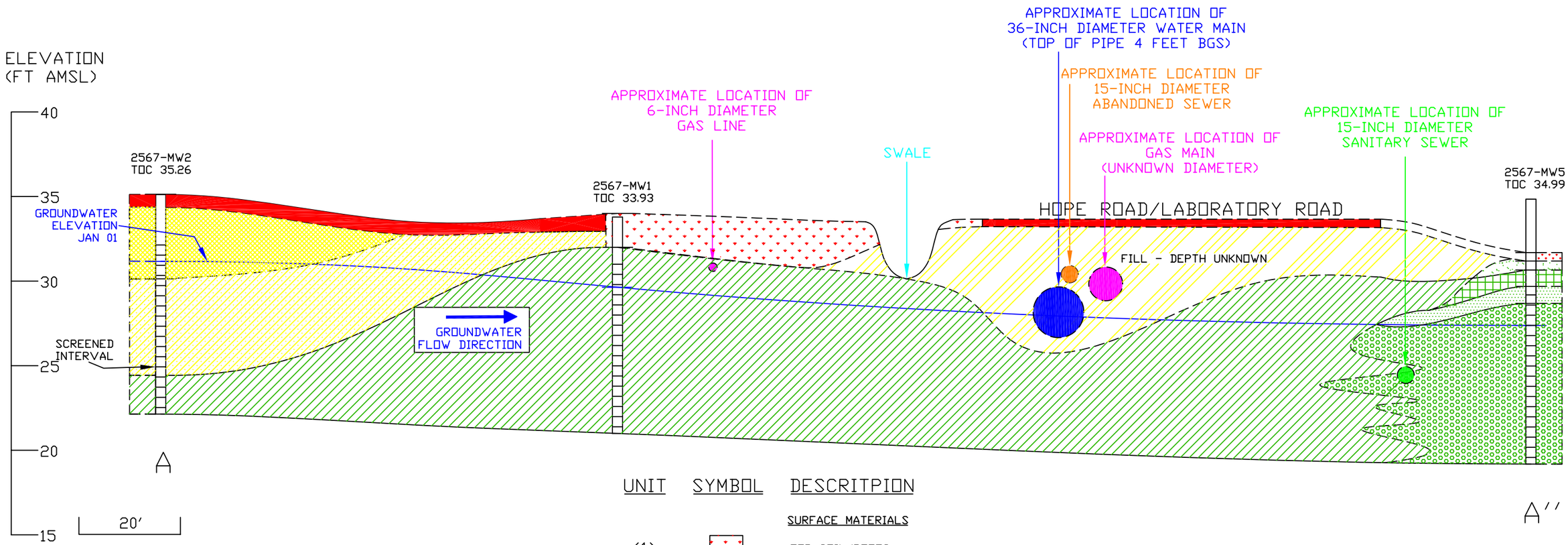
5) BOUNDARIES ARE DASHED WHERE INFERRED.

6) THE SIZE OF THE UNDERGROUND UTILITY PIPES IS PORTRAYED IN THE VERTICAL SCALE (1"=6')

REV.	REVISIONS	APPROVED	DRAWN BY

TITLE:
FIGURE 4-2
GEOLOGIC CROSS SECTION A-A'
SITE 2567- CHARLES WOOD AREA
FORT MONMOUTH, NEW JERSEY

DRAWN BY: PS/TJK	DATE DRAWN: 10 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
Versar INC. 201 GIBRALTAR ROAD, SUITE 100 HOSHAM, PA 19044 (215) 957-0955	DRAWING No.: FIGURE 4-2
	FILE No.: 2567 FIG 4-2
	SCALE: 1" = 20' (VERT:1"=6)
	SHEET 1 OF 1 REV.: A



UNIT	SYMBOL	DESCRITPION
		SURFACE MATERIALS
(1)		TOP SOIL/ROOTS
(2)		ASPHALT/BASE STONE
(3)		LIGHT ORANGE SAND - FILL
(4)		LIGHT GREEN SAND - FILL
(7)		FILL - UNKNOWN DEPTH AND LITHOLOGY
		TINTON FORMATION
(5)		DARK BROWN/BLACK CLAY WITH SOME FINE GREEN SAND
(8)		BROWN FINE SAND
(9)		BLACK, SOFT CLAY
(10)		BROWN FINE SAND AND SILTS
(11)		GRAY MEDIUM SAND WITH WELL-ROUNDED GRAVEL

NOTES:

1) CROSS SECTION LINE (A TO A'') IS SHOWN ON FIGURE 4-1.

2) VERTICAL SCALE: 1" = 6'.
HORIZONTAL SCALE: 1" = 20'.
VERTICAL EXAGGERATION = 3.33.

3) TOC = ELEVATION OF INNER WELL CASING SURVEY MARK (FEET AMSL).

4) EACH OF THE WELLS HAS A DIAMETER OF 4 INCHES, WHICH IS ENLARGED ON THIS DRAWING FOR PRESENTATION.

5) BOUNDARIES ARE DASHED WHERE INFERRED.

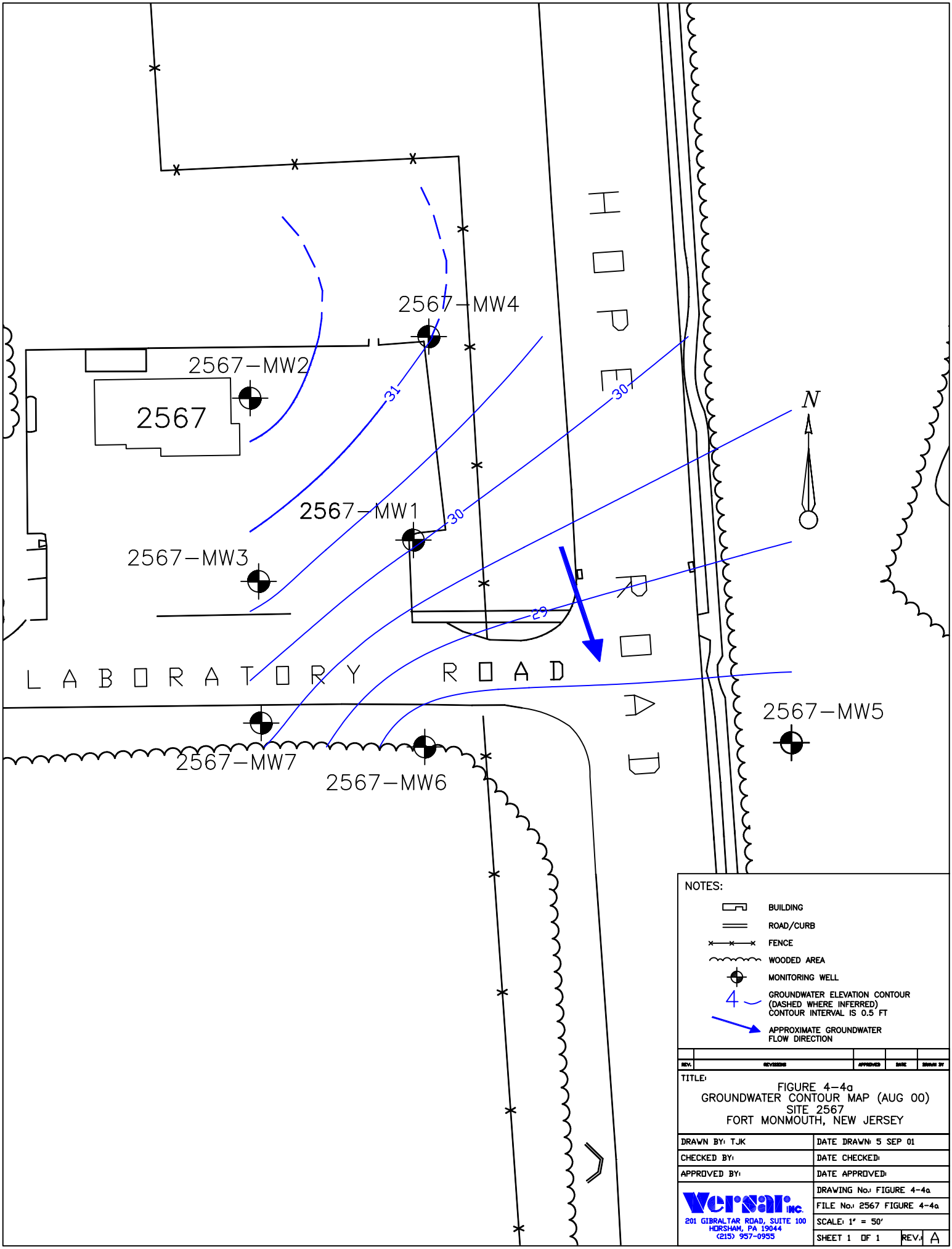
6) THE SIZE OF THE UNDERGROUND UTILITY PIPES IS PORTRAYED IN THE VERTICAL SCALE (1"=6')

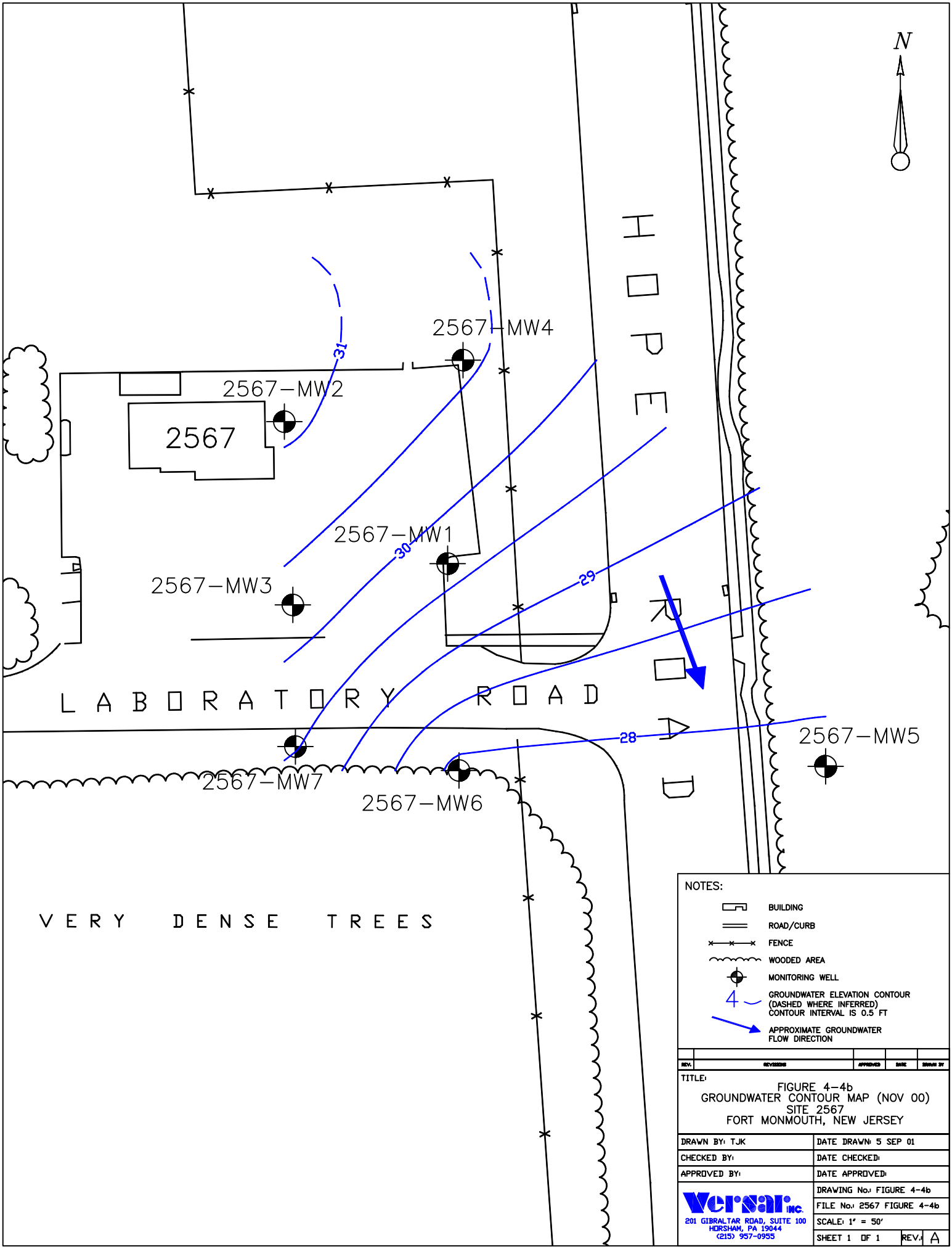
7) THE SIZE OF THE UNDERGROUND UTILITY PIPES IS REPRESENTED IN THE VERTICAL SCALE (1"=6')

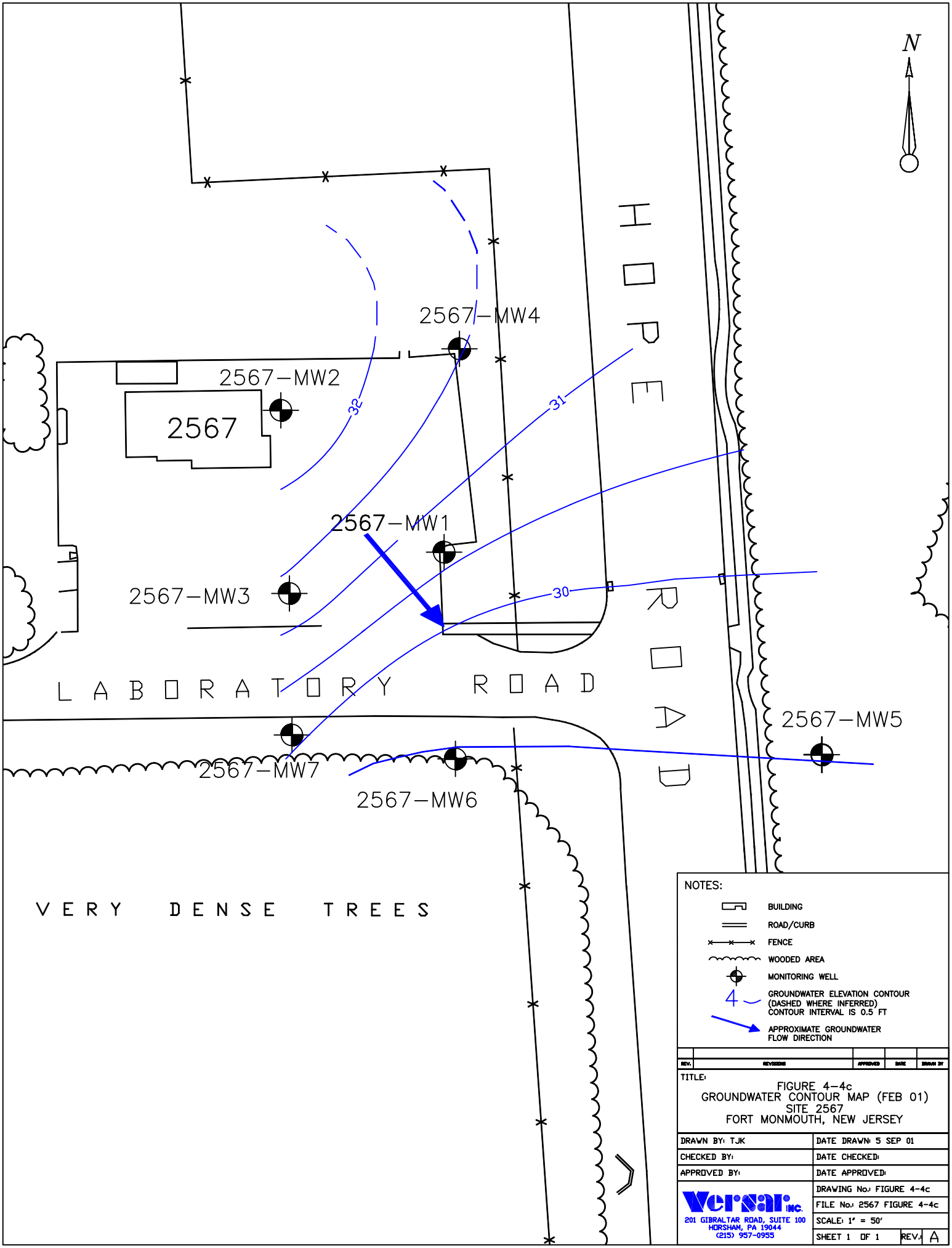
REV.	REVISIONS	APPROVED	DRAWN BY

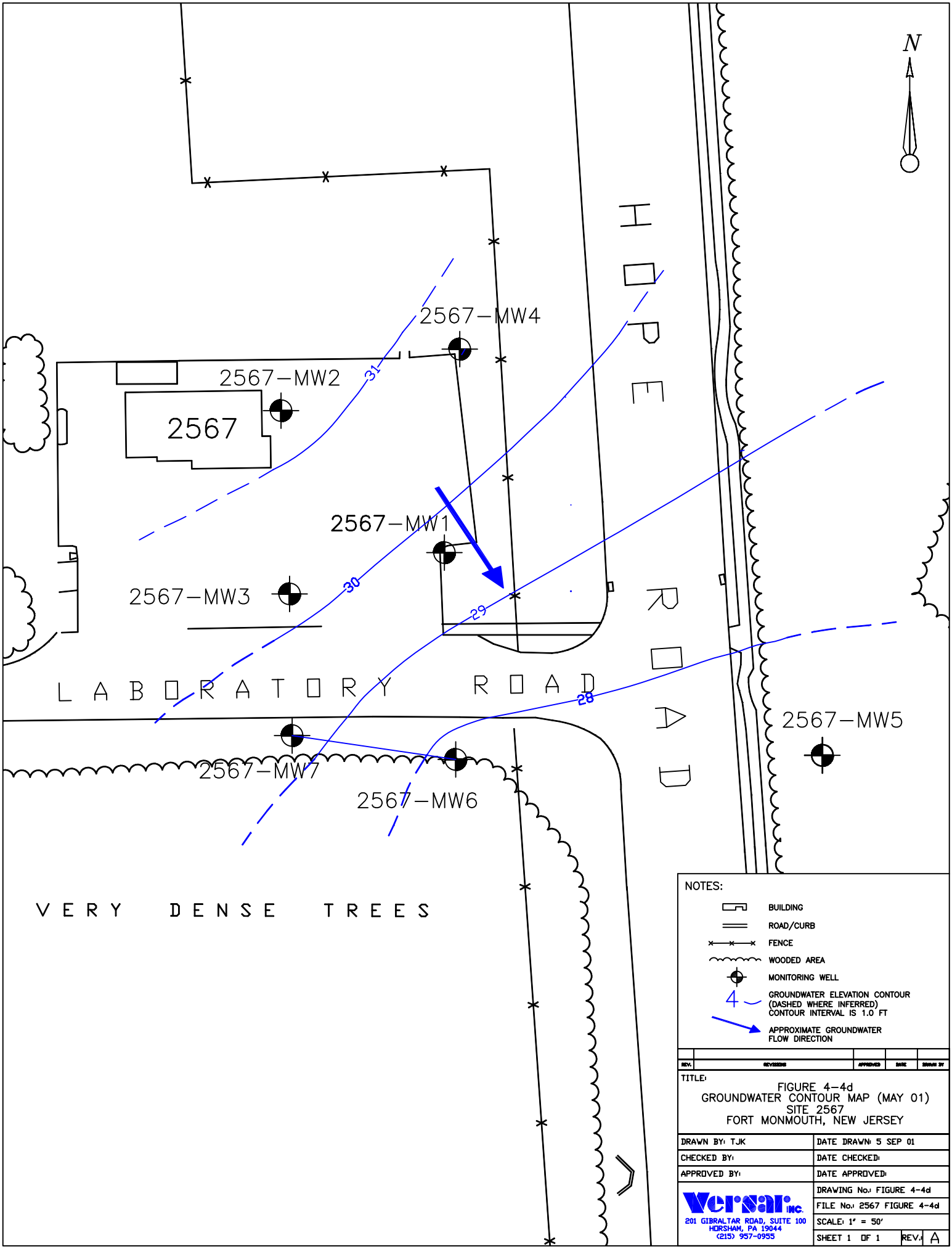
TITLE:
FIGURE 4-3
GEOLOGIC CROSS SECTION A-A''
SITE 2567- CHARLES WOOD AREA
FORT MONMOUTH, NEW JERSEY

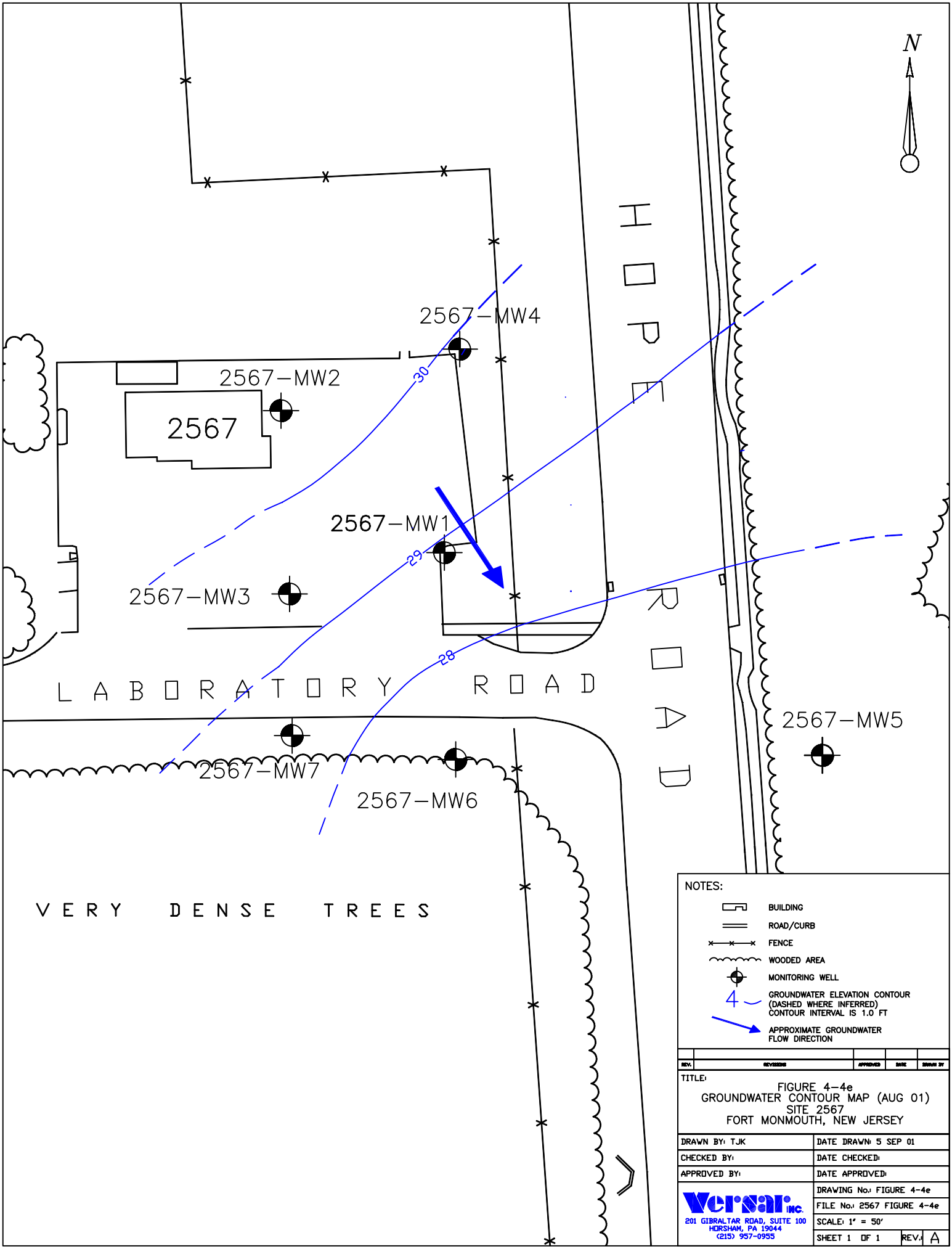
DRAWN BY: PS/TJK	DATE DRAWN: 10 AUG 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
Versar INC. 201 GIBRALTAR ROAD, SUITE 100 HORSHAM, PA 19044 (215) 957-0944	DRAWING No.: FIGURE 4-3
	FILE No.: 2567 FIG. 4-3
	SCALE: 1" = 20' (VERT:1"=6')
	SHEET 1 OF 1 REV.: A

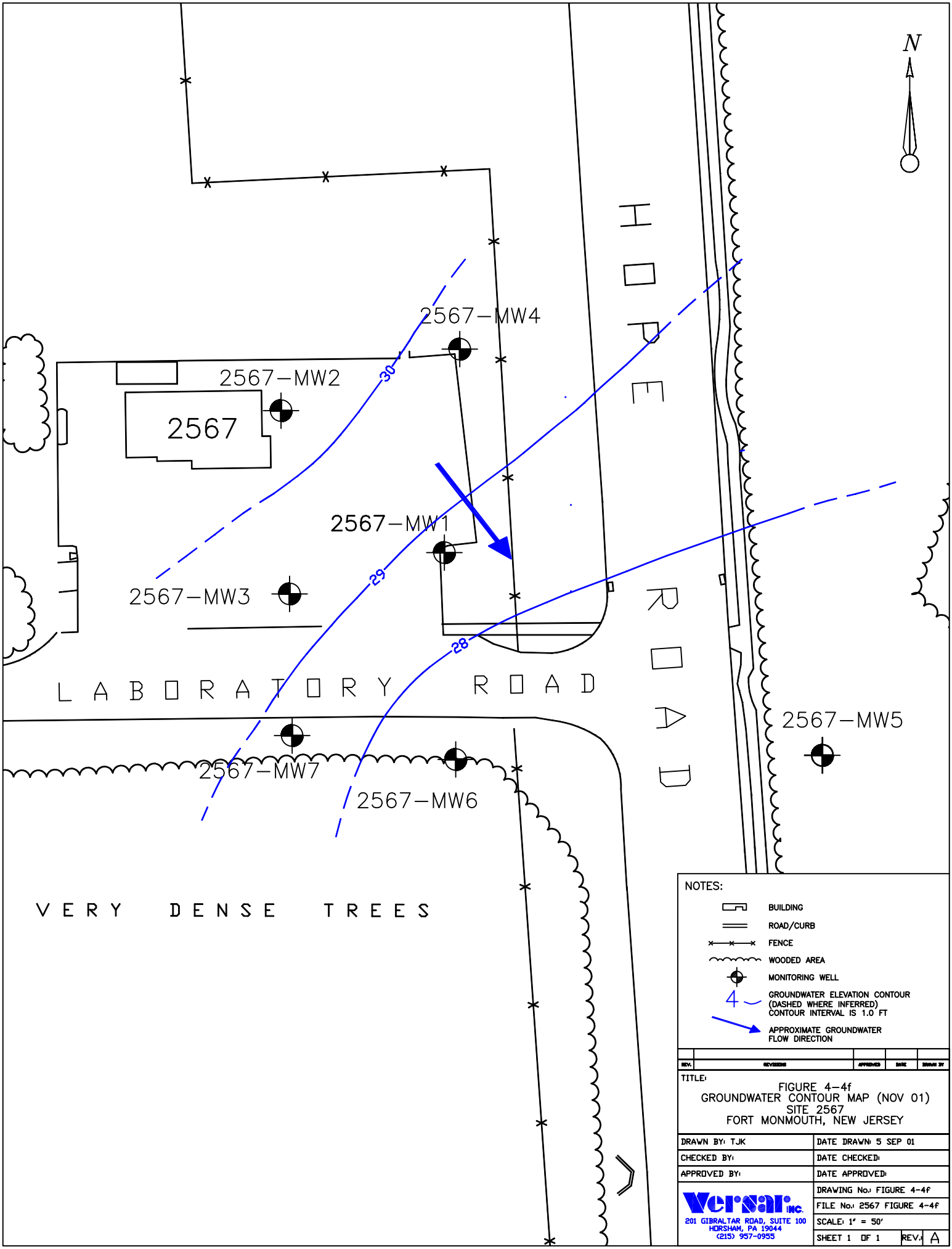

2567
2567-MW1
2567-MW2
2567-MW3
2567-MW4
2567-MW5
2567-MW6
2567-MW7
31
30
30
29
LABORATORY ROAD
HOPE ROAD
N
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 0.5 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4a
GROUNDWATER CONTOUR MAP (AUG 00)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
DRAWING No.: FIGURE 4-4a
FILE No.: 2567 FIGURE 4-4a
SCALE: 1" = 50'
SHEET 1 OF 1
REV.: A
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955

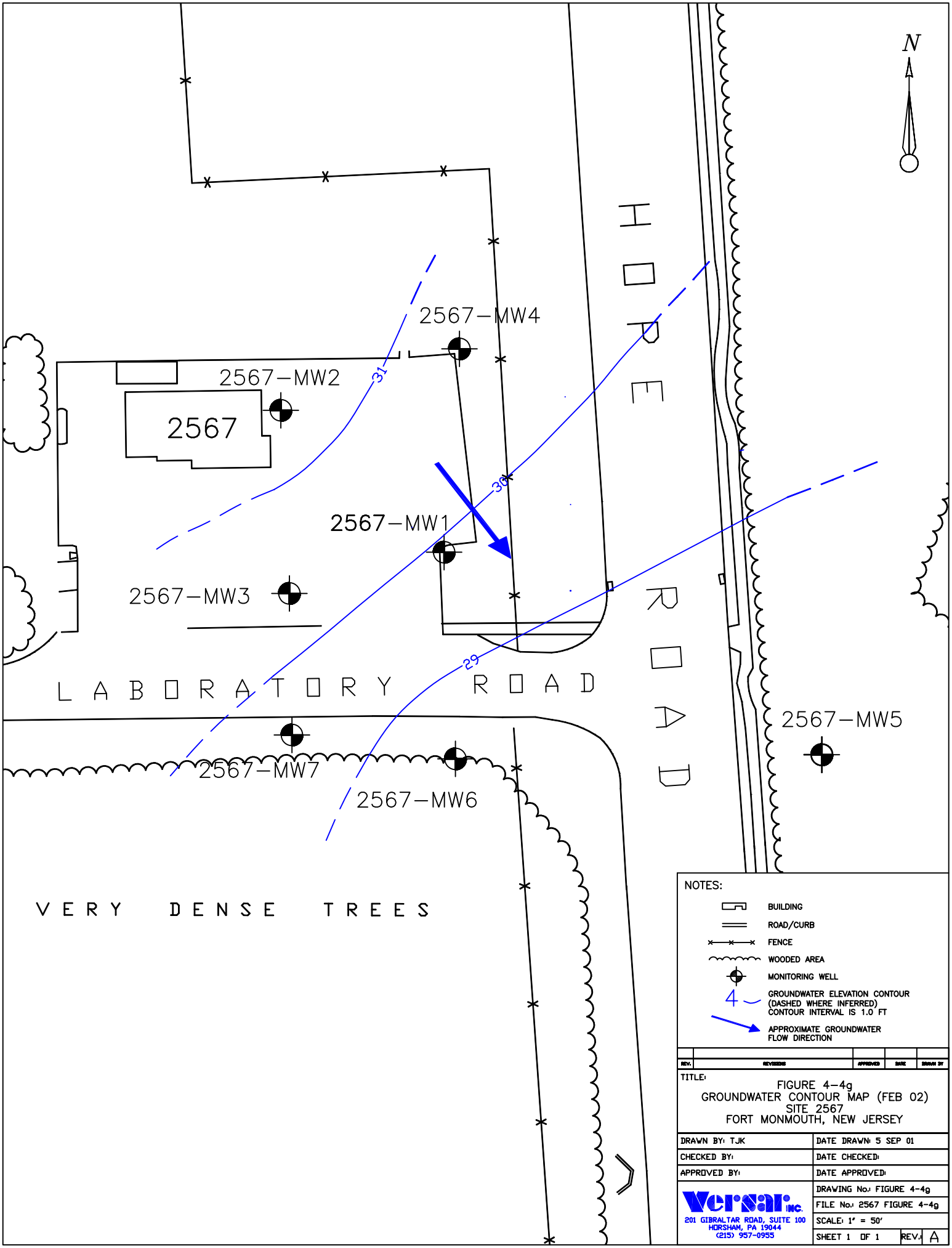

N
HOPE ROAD
LABORATORY ROAD
2567
2567-MW1
2567-MW2
2567-MW3
2567-MW4
2567-MW5
2567-MW6
2567-MW7
31
30
29
28
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 0.5 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4b
GROUNDWATER CONTOUR MAP (NOV 00)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 4-4b
FILE No.: 2567 FIGURE 4-4b
SCALE: 1' = 50'
SHEET 1 OF 1
REV.: A

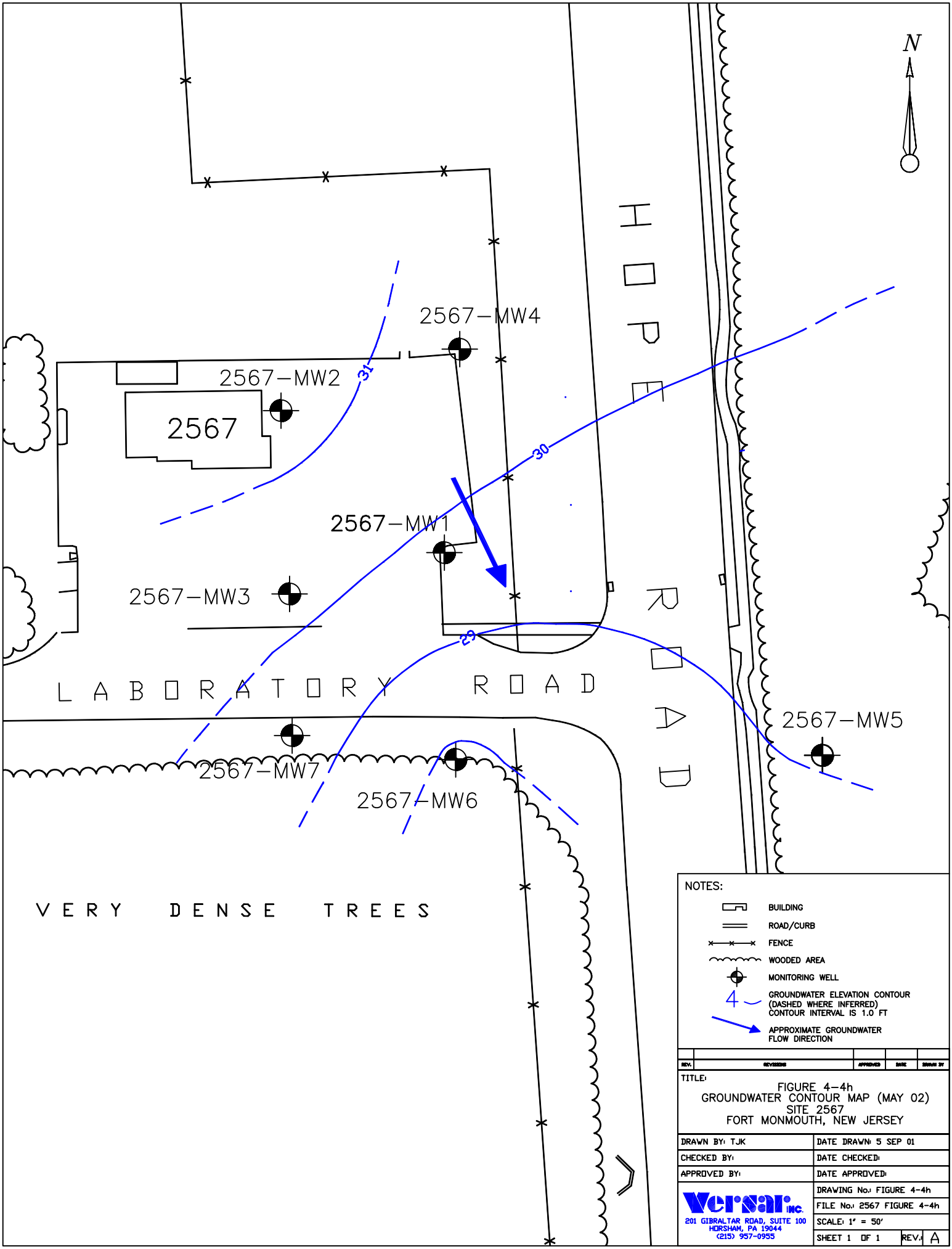

N
HOPE ROAD
LABORATORY ROAD
2567
2567-MW1
2567-MW2
2567-MW3
2567-MW4
2567-MW5
2567-MW6
2567-MW7
32
31
30
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 0.5 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4c
GROUNDWATER CONTOUR MAP (FEB 01)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 4-4c
FILE No.: 2567 FIGURE 4-4c
SCALE: 1" = 50'
SHEET 1 OF 1
REV.: A

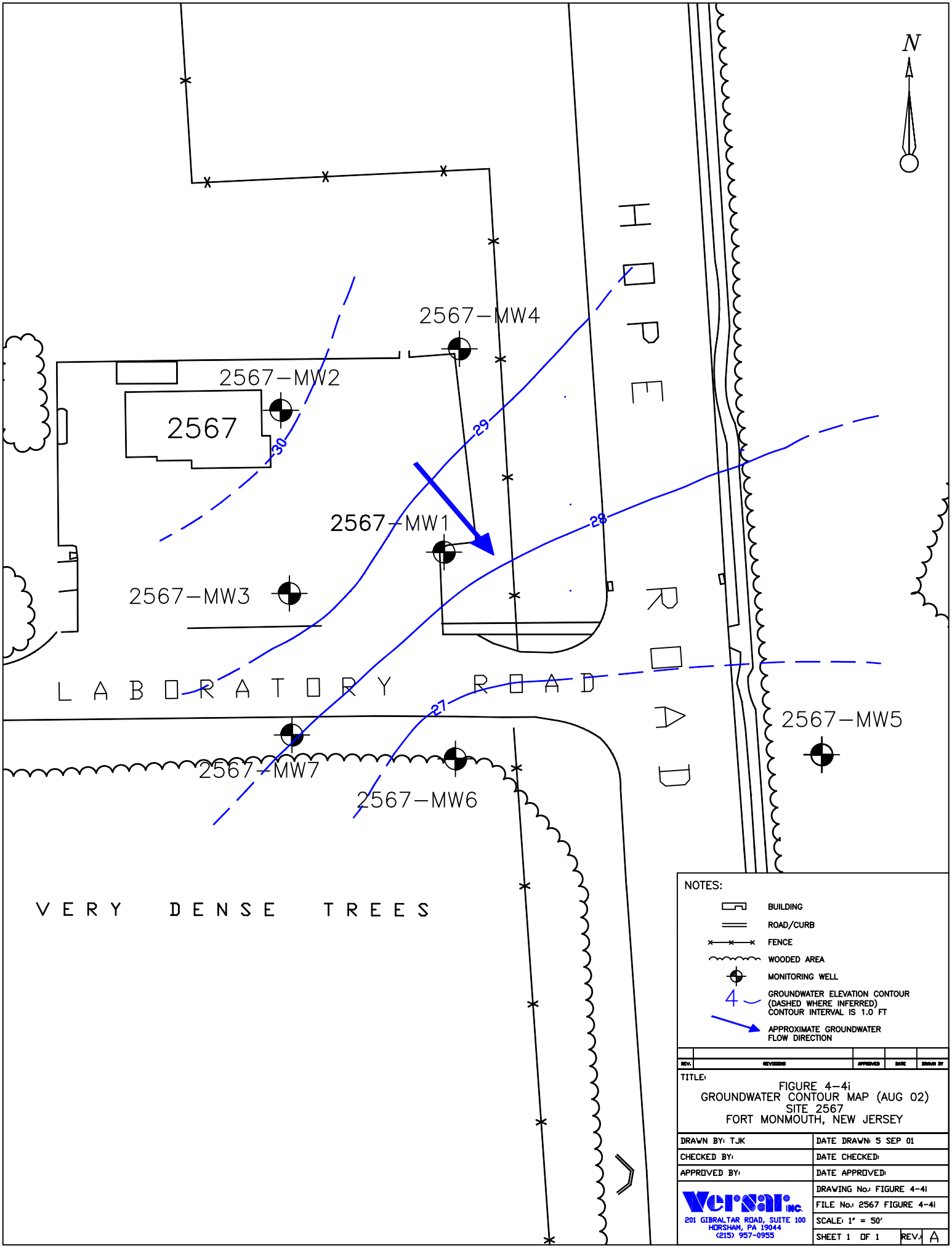

N
HOPE ROAD
LABORATORY ROAD
2567
2567-MW1
2567-MW2
2567-MW3
2567-MW4
2567-MW5
2567-MW6
2567-MW7
31
30
29
28
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 1.0 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4d
GROUNDWATER CONTOUR MAP (MAY 01)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 4-4d
FILE No.: 2567 FIGURE 4-4d
SCALE: 1" = 50'
SHEET 1 OF 1
REV.: A

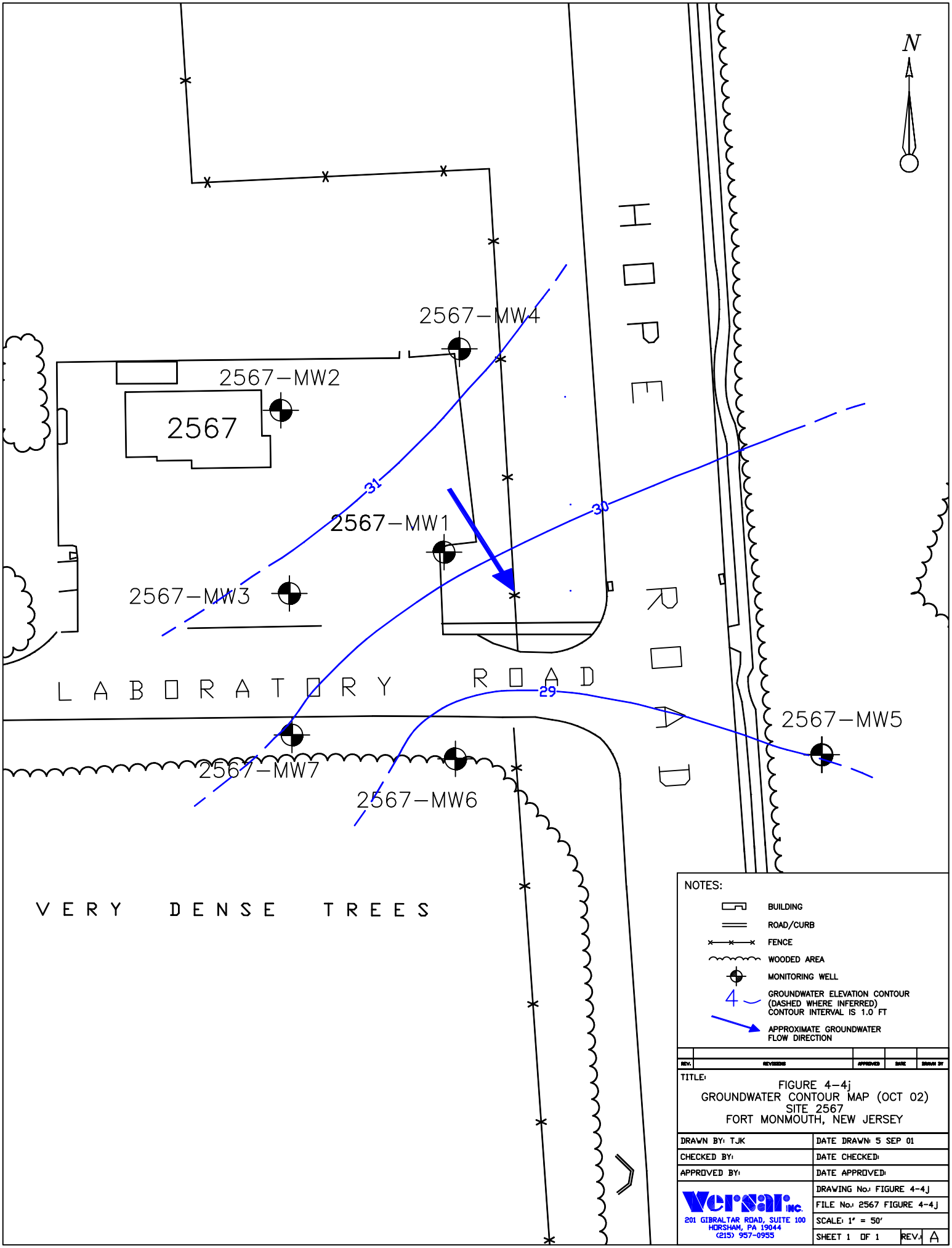

N
2567
2567-MW1
2567-MW2
2567-MW3
2567-MW4
2567-MW5
2567-MW6
2567-MW7
30
29
28
HOPE ROAD
LABORATORY ROAD
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 1.0 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4e
GROUNDWATER CONTOUR MAP (AUG 01)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 4-4e
FILE No.: 2567 FIGURE 4-4e
SCALE: 1" = 50'
SHEET 1 OF 1
REV.: A

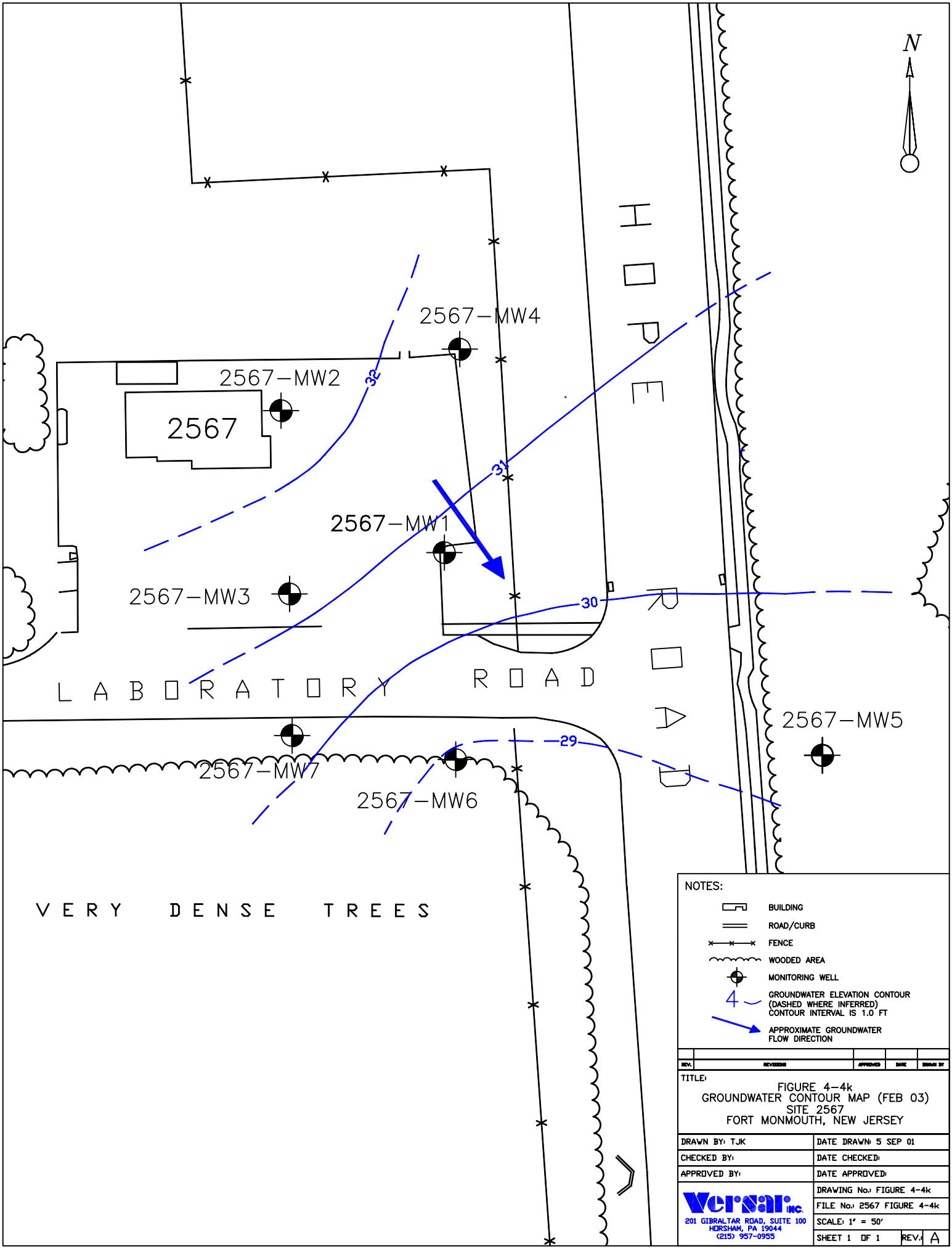

N
2567
2567-MW1
2567-MW2
2567-MW3
2567-MW4
2567-MW5
2567-MW6
2567-MW7
30
29
28
HOPE ROAD
LABORATORY ROAD
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 1.0 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4f
GROUNDWATER CONTOUR MAP (NOV 01)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 4-4f
FILE No.: 2567 FIGURE 4-4f
SCALE: 1" = 50'
SHEET 1 OF 1
REV.: A

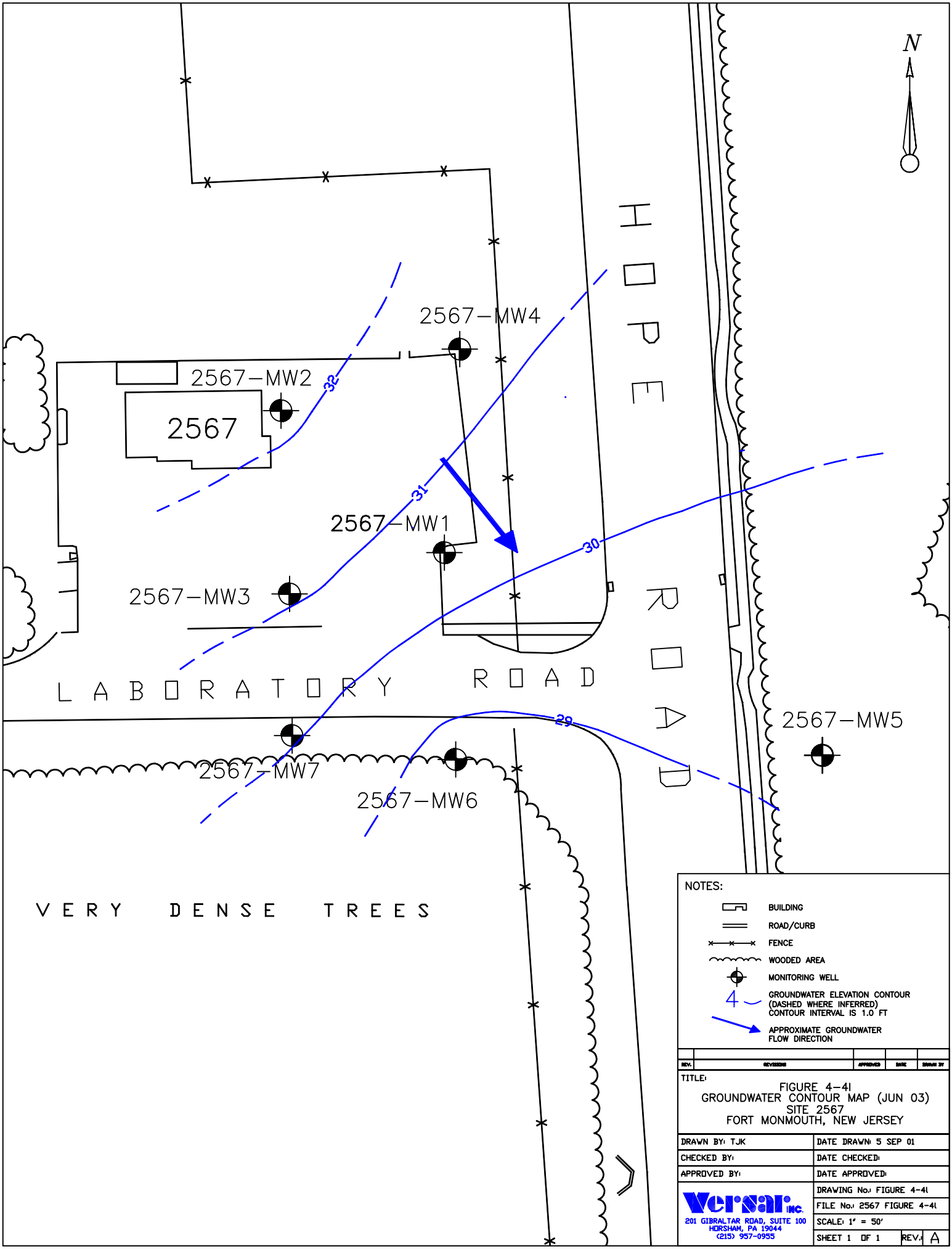

N
2567
2567-MW1
2567-MW2
2567-MW3
2567-MW4
2567-MW5
2567-MW6
2567-MW7
31
30
29
HOPE ROAD
LABORATORY ROAD
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 1.0 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4g
GROUNDWATER CONTOUR MAP (FEB 02)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 4-4g
FILE No.: 2567 FIGURE 4-4g
SCALE: 1" = 50'
SHEET 1 OF 1
REV.: A

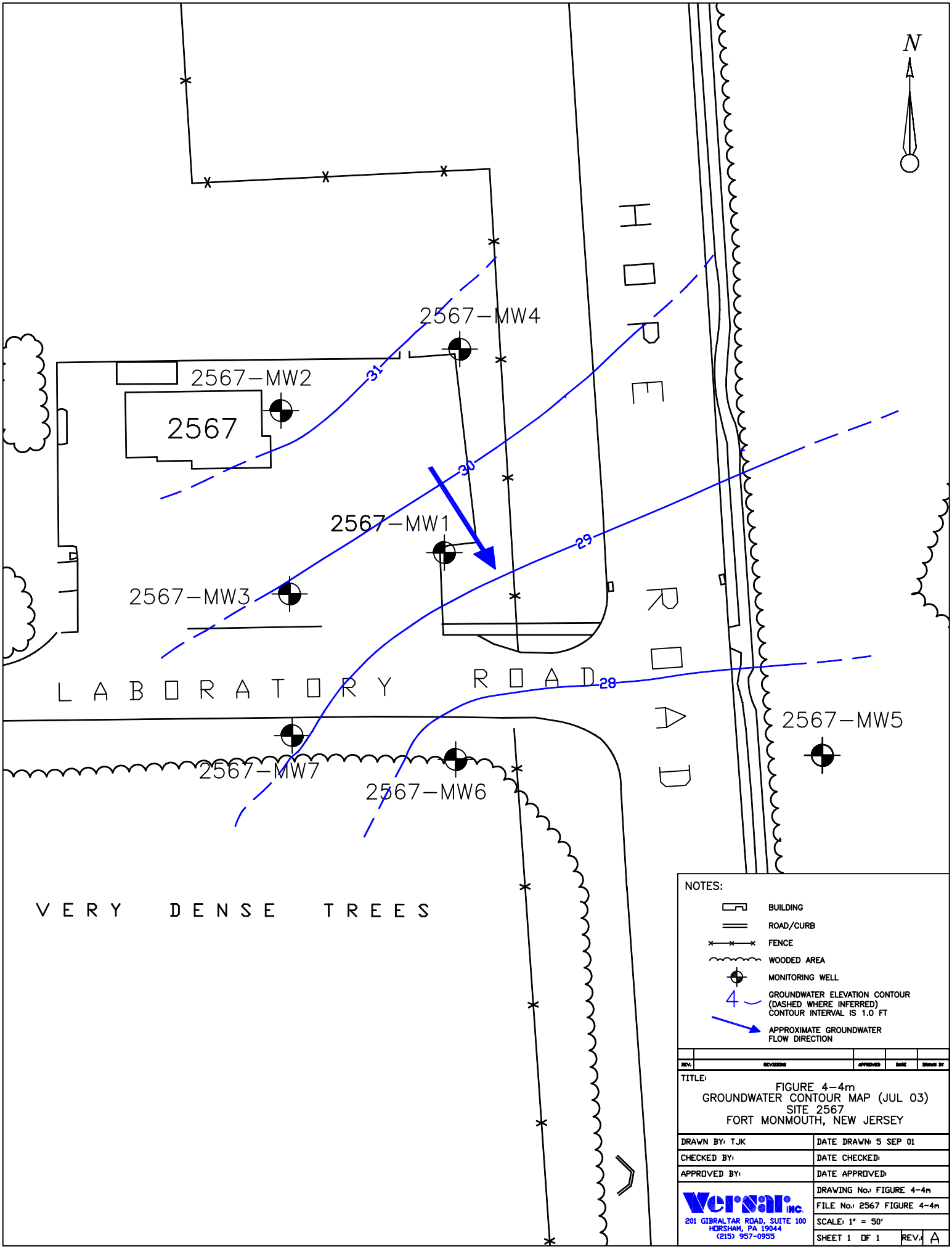

N
2567-MW4
2567-MW2
2567
31
30
2567-MW1
2567-MW3
29
LABORATORY ROAD
HOPPER ROAD
2567-MW5
2567-MW7
2567-MW6
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 1.0 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4h
GROUNDWATER CONTOUR MAP (MAY 02)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 4-4h
FILE No.: 2567 FIGURE 4-4h
SCALE: 1" = 50'
SHEET 1 OF 1
REV.: A

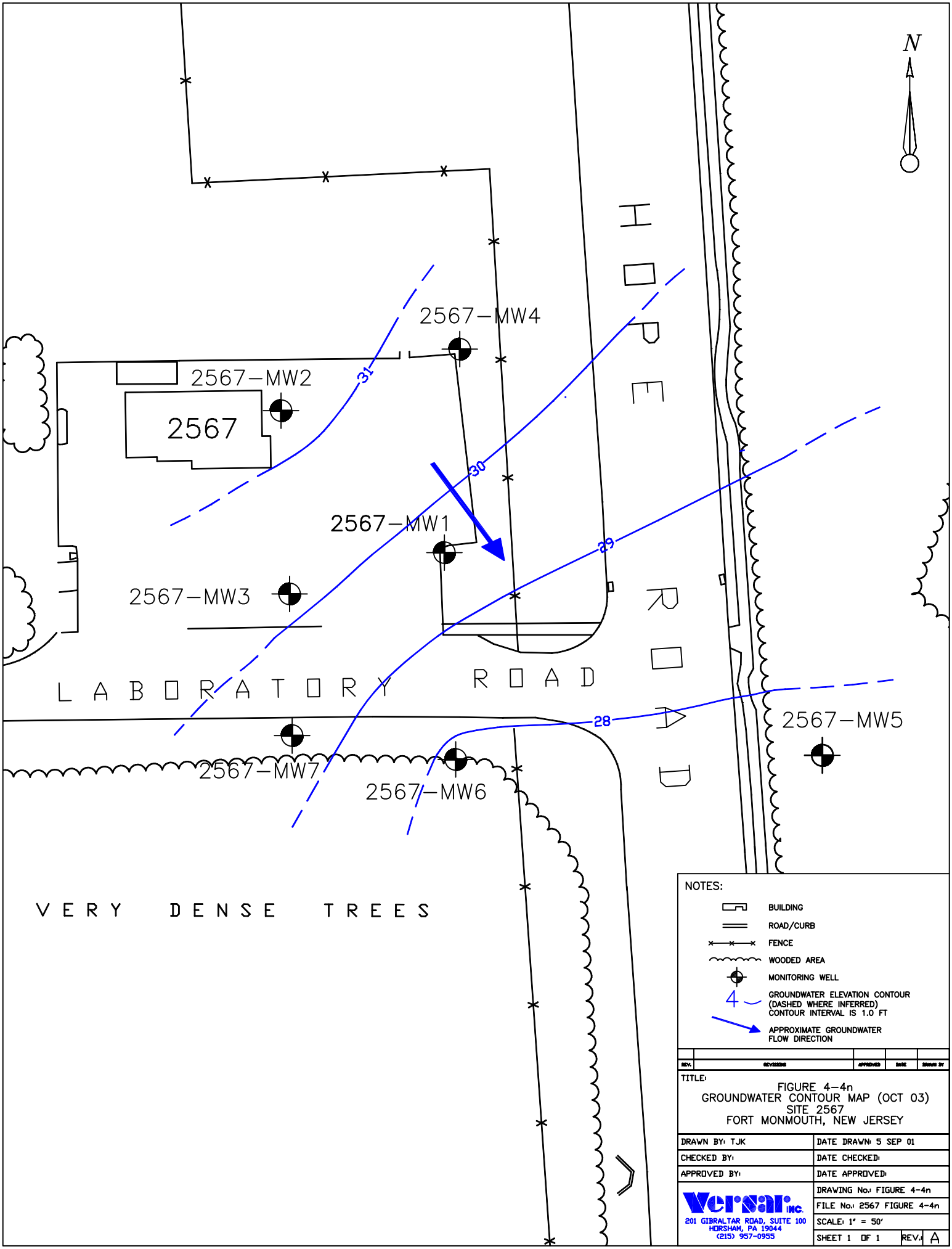

N
HOPE ROAD
LABORATORY ROAD
2567
2567-MW1
2567-MW2
2567-MW3
2567-MW4
2567-MW5
2567-MW6
2567-MW7
30
29
28
27
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 1.0 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4:
GROUNDWATER CONTOUR MAP (AUG 02)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 4-4:
FILE No.: 2567 FIGURE 4-4:
SCALE: 1" = 50'
SHEET 1 OF 1
REV.: A

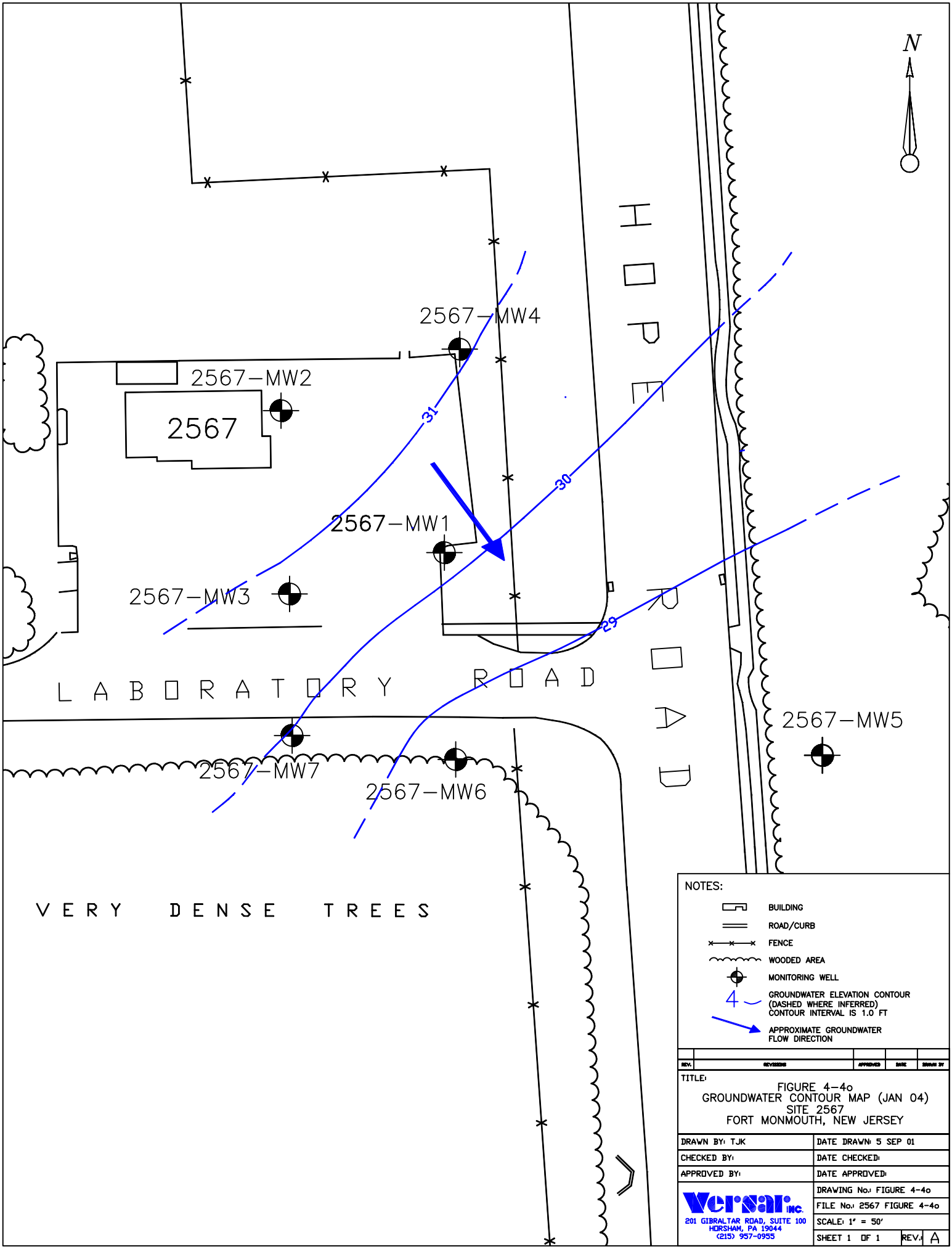

N
HOPE ROAD
LABORATORY ROAD
2567
2567-MW1
2567-MW2
2567-MW3
2567-MW4
2567-MW5
2567-MW6
2567-MW7
31
30
29
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 1.0 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4j
GROUNDWATER CONTOUR MAP (OCT 02)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 4-4J
FILE No.: 2567 FIGURE 4-4J
SCALE: 1" = 50'
SHEET 1 OF 1
REV.: A

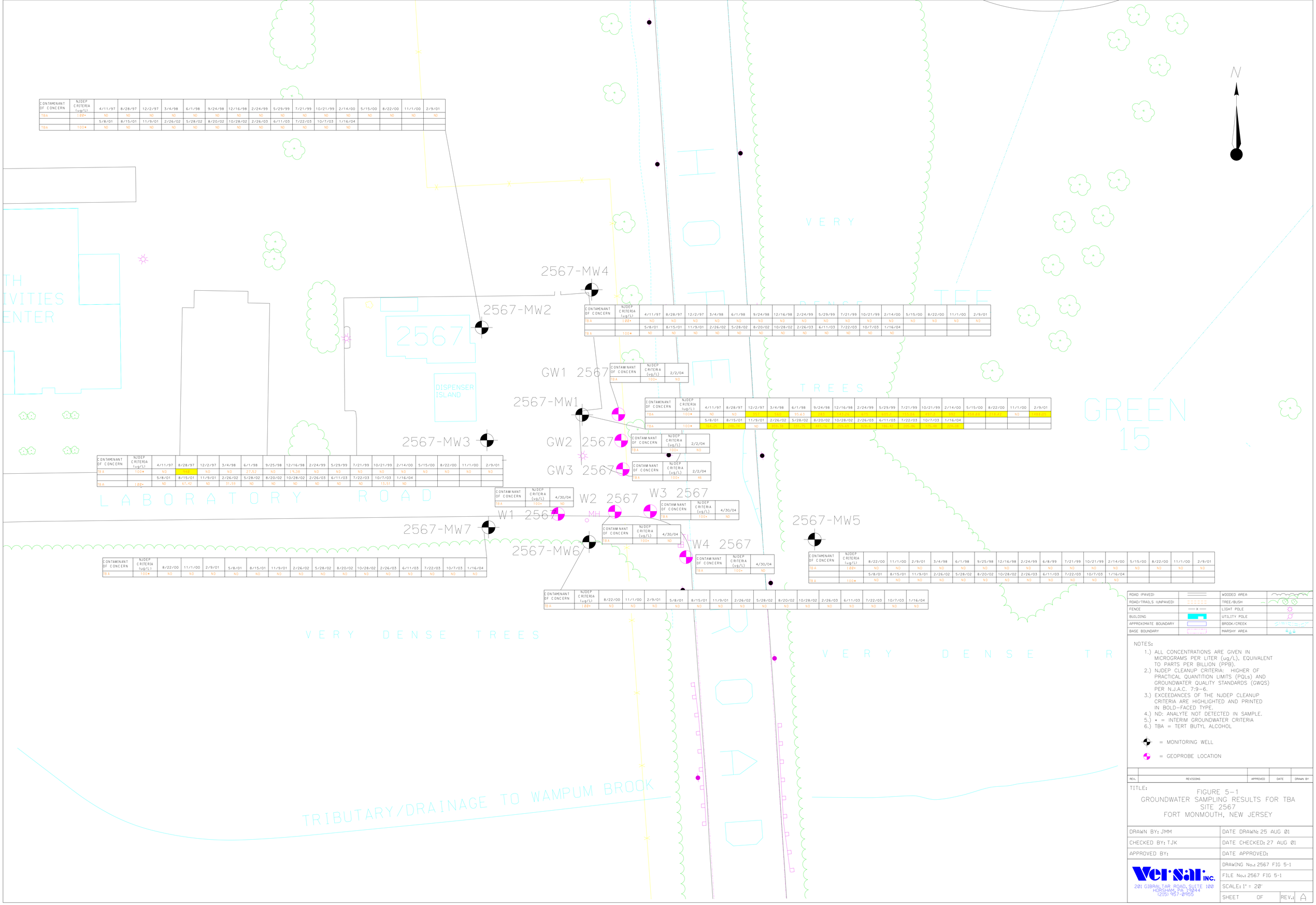

N
2567-MW4
2567-MW2
2567
2567-MW1
2567-MW3
2567-MW5
2567-MW7
2567-MW6
32
31
30
29
HOPE ROAD
LABORATORY ROAD
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 1.0 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4k
GROUNDWATER CONTOUR MAP (FEB 03)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 4-4k
FILE No.: 2567 FIGURE 4-4k
SCALE: 1" = 50'
SHEET 1 OF 1
REV.: A


N
HOPE ROAD
LABORATORY ROAD
2567
2567-MW1
2567-MW2
2567-MW3
2567-MW4
2567-MW5
2567-MW6
2567-MW7
32
31
30
29
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 1.0 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4I
GROUNDWATER CONTOUR MAP (JUN 03)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 4-4I
FILE No.: 2567 FIGURE 4-4I
SCALE: 1" = 50'
SHEET 1 OF 1
REV.: A


N
2567
2567-MW1
2567-MW2
2567-MW3
2567-MW4
2567-MW5
2567-MW6
2567-MW7
31
30
29
28
HOPE ROAD
LABORATORY ROAD
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 1.0 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4m
GROUNDWATER CONTOUR MAP (JUL 03)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
DRAWING No.: FIGURE 4-4m
FILE No.: 2567 FIGURE 4-4m
SCALE: 1" = 50'
SHEET 1 OF 1
REV.: A
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955


N
HOPE ROAD
2567-MW4
2567-MW2
2567
31
30
29
28
2567-MW1
2567-MW3
LABORATORY ROAD
2567-MW5
2567-MW7
2567-MW6
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 1.0 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4n
GROUNDWATER CONTOUR MAP (OCT 03)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 4-4n
FILE No.: 2567 FIGURE 4-4n
SCALE: 1' = 50'
SHEET 1 OF 1
REV.: A


N
HOPE ROAD
2567-MW4
2567-MW2
2567
31
30
29
2567-MW1
2567-MW3
LABORATORY ROAD
2567-MW5
2567-MW7
2567-MW6
VERY DENSE TREES
NOTES:
BUILDING
ROAD/CURB
FENCE
WOODED AREA
MONITORING WELL
4
GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) CONTOUR INTERVAL IS 1.0 FT
APPROXIMATE GROUNDWATER FLOW DIRECTION
REV.
REVISIONS
APPROVED
DATE
DRAWN BY
TITLE:
FIGURE 4-4o
GROUNDWATER CONTOUR MAP (JAN 04)
SITE 2567
FORT MONMOUTH, NEW JERSEY
DRAWN BY: TJK
DATE DRAWN: 5 SEP 01
CHECKED BY:
DATE CHECKED:
APPROVED BY:
DATE APPROVED:
Versar INC.
201 GIBRALTAR ROAD, SUITE 100
HORSHAM, PA 19044
(215) 957-0955
DRAWING No.: FIGURE 4-4o
FILE No.: 2567 FIGURE 4-4o
SCALE: 1" = 50'
SHEET 1 OF 1
REV.: A



CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	4/11/97	8/28/97	12/2/97	3/4/98	6/1/98	9/24/98	12/16/98	2/24/99	5/29/99	7/21/99	10/21/99	2/14/00	5/15/00	8/22/00	11/1/00	2/9/01
TBA	100*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		5/8/01	8/15/01	11/9/01	2/26/02	5/28/02	8/20/02	10/28/02	2/26/03	6/11/03	7/22/03	10/7/03	1/16/04				
TBA	100*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				

CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	4/11/97	8/28/97	12/2/97	3/4/98	6/1/98	9/24/98	12/16/98	2/24/99	5/29/99	7/21/99	10/21/99	2/14/00	5/15/00	8/22/00	11/1/00	2/9/01
TBA	100*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		5/8/01	8/15/01	11/9/01	2/26/02	5/28/02	8/20/02	10/28/02	2/26/03	6/11/03	7/22/03	10/7/03	1/16/04				
TBA	100*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				

CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	2/2/04
TBA	100*	ND

CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	4/11/97	8/28/97	12/2/97	3/4/98	6/1/98	9/24/98	12/16/98	2/24/99	5/29/99	7/21/99	10/21/99	2/14/00	5/15/00	8/22/00	11/1/00	2/9/01
TBA	100*	ND	ND	ND	ND	29.4J	24J	14J	12J	11J	7.2J	10J	9.2J	43.8J	21.4J	ND	18.6J
		5/8/01	8/15/01	11/9/01	2/26/02	5/28/02	8/20/02	10/28/02	2/26/03	6/11/03	7/22/03	10/7/03	1/16/04				
TBA	100*	186J	76J	ND	120J	126J	41J	25J	26J	16J	10J	10J	14J				

CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	2/2/04
TBA	100*	ND

CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	2/2/04
TBA	100*	46

CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	4/11/97	8/28/97	12/2/97	3/4/98	6/1/98	9/25/98	12/16/98	2/24/99	5/29/99	7/21/99	10/21/99	2/14/00	5/15/00	8/22/00	11/1/00	2/9/01
TBA	100*	ND	140	ND	ND	27.52	19.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		5/8/01	8/15/01	11/9/01	2/26/02	5/28/02	8/20/02	10/28/02	2/26/03	6/11/03	7/22/03	10/7/03	1/16/04				
TBA	100*	ND	67.42	ND	31.59	ND	ND	ND	ND	ND	ND	13.51	ND				

CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	4/30/04
TBA	100*	ND

CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	4/30/04
TBA	100*	ND

CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	4/30/04
TBA	100*	ND

CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	4/30/04
TBA	100*	ND

CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	8/22/00	11/1/00	2/9/01	5/8/01	8/15/01	11/9/01	2/26/02	5/28/02	8/20/02	10/28/02	2/26/03	6/11/03	7/22/03	10/7/03	1/16/04
TBA	100*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	8/22/00	11/1/00	2/9/01	3/4/98	6/1/98	9/25/98	12/16/98	2/24/99	6/8/99	7/21/99	10/21/99	2/14/00	5/15/00	8/22/00	11/1/00	2/9/01
TBA	100*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		5/8/01	8/15/01	11/9/01	2/26/02	5/28/02	8/20/02	10/28/02	2/26/03	6/11/03	7/22/03	10/7/03	1/16/04				
TBA	100*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				

CONTAMINANT OF CONCERN	NJDEP CRITERIA (ug/L)	8/22/00	11/1/00	2/9/01	5/8/01	8/15/01	11/9/01	2/26/02	5/28/02	8/20/02	10/28/02	2/26/03	6/11/03	7/22/03	10/7/03	1/16/04
TBA	100*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ROAD (PAVED)		WOODED AREA	
ROAD/TRAILS (UNPAVED)		TREE/BUSH	
FENCE	— x —	LIGHT POLE	
BUILDING		UTILITY POLE	
APPROXIMATE BOUNDARY		BROOK/CREEK	
BASE BOUNDARY		MARSHY AREA	

NOTES:

1.) ALL CONCENTRATIONS ARE GIVEN IN MICROGRAMS PER LITER (ug/L), EQUIVALENT TO PARTS PER BILLION (PPB).
2.) NJDEP CLEANUP CRITERIA: HIGHER OF PRACTICAL QUANTITION LIMITS (PQLs) AND GROUNDWATER QUALITY STANDARDS (GWQS) PER N.J.A.C. 7:9-6.
3.) EXCEEDANCES OF THE NJDEP CLEANUP CRITERIA ARE HIGHLIGHTED AND PRINTED IN BOLD-FACED TYPE.
4.) ND: ANALYTE NOT DETECTED IN SAMPLE.
5.) * = INTERIM GROUNDWATER CRITERIA
6.) TBA = TERT BUTYL ALCOHOL

= MONITORING WELL

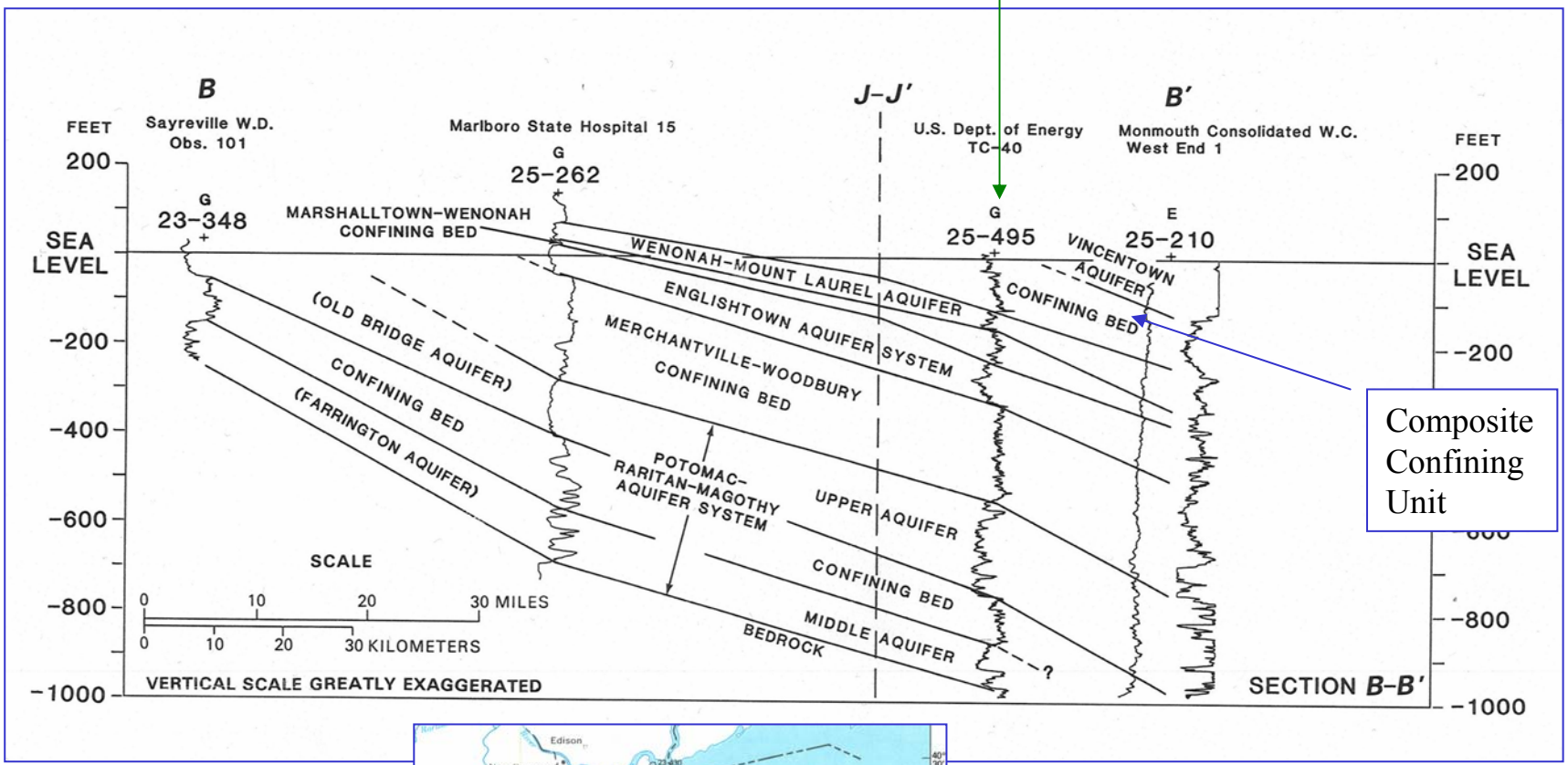
= GEOPROBE LOCATION

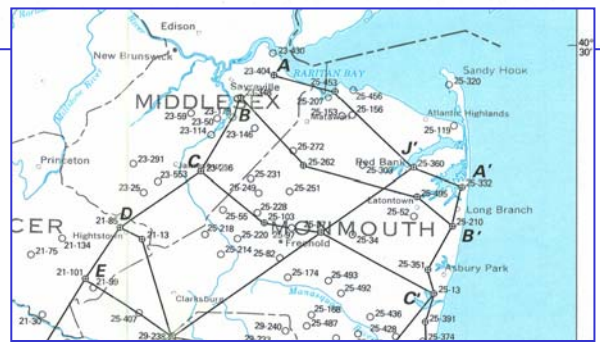
REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:
FIGURE 5-1
GROUNDWATER SAMPLING RESULTS FOR TBA
SITE 2567
FORT MONMOUTH, NEW JERSEY

DRAWN BY: JMM	DATE DRAWN: 25 AUG 01
CHECKED BY: TJK	DATE CHECKED: 27 AUG 01
APPROVED BY:	DATE APPROVED:
Versar INC. 201 GIBRALTAR ROAD, SUITE 100 HORSHAM, PA 19044 (215) 957-0955	DRAWING No.: 2567 FIG 5-1
	FILE No.: 2567 FIG 5-1
	SCALE: 1" = 20'
	SHEET OF REV.: A

Fort Monmouth – Charles Wood Area



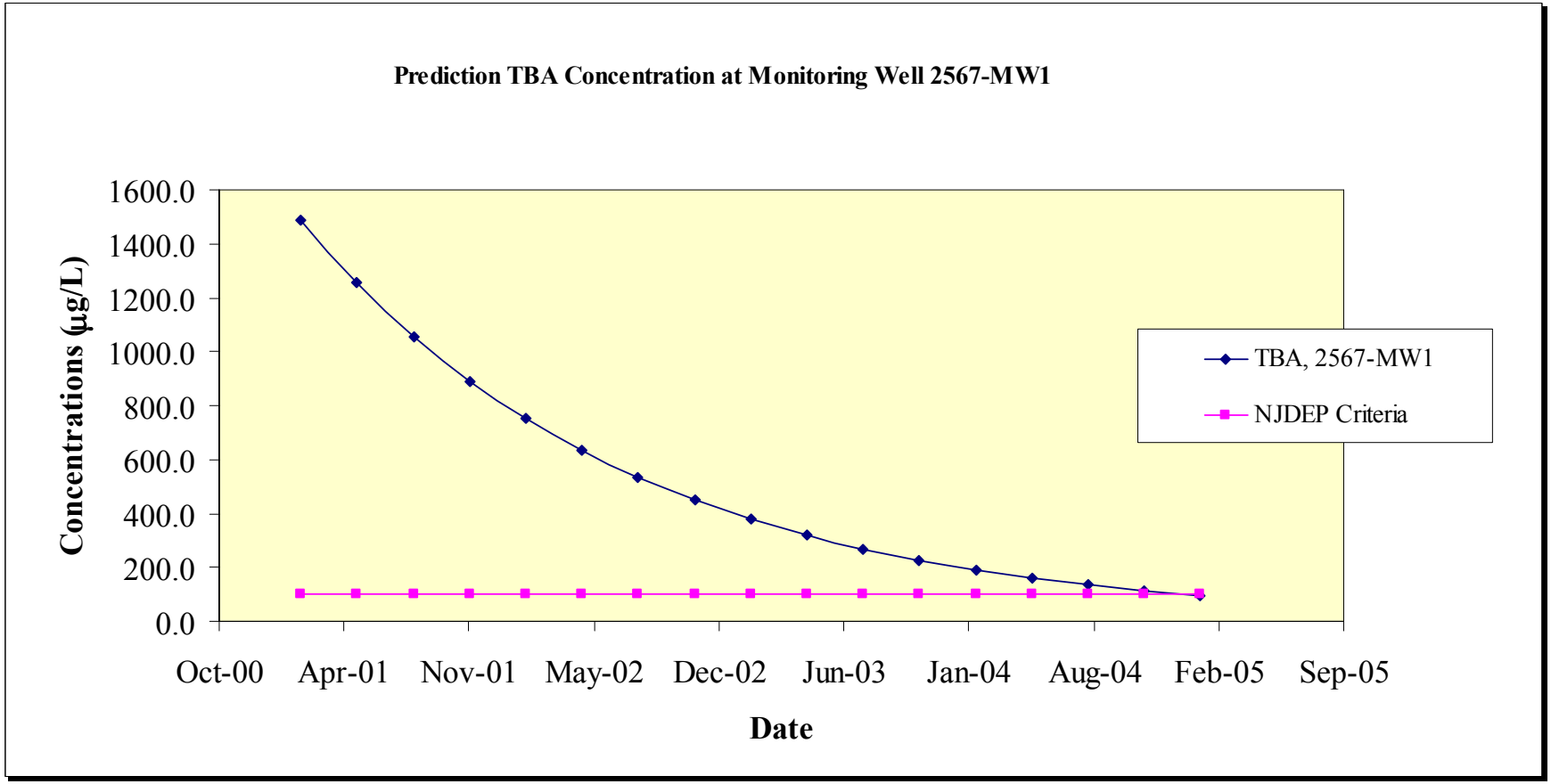


Source: Zapecza, O. 1989. *Hydrogeologic Framework of the New Jersey Coastal Plain.* USGS Professional Paper 1404-B. U.S. Government Printing Office, Washington, DC.

FIGURE 6-1

Geologic Cross-Section B-B'
Site-2567
Fort Monmouth, New Jersey

Versar INC.
2558 Pearl Buck Road, Suite 1
Bristol, PA 19007
(215) 788-7844

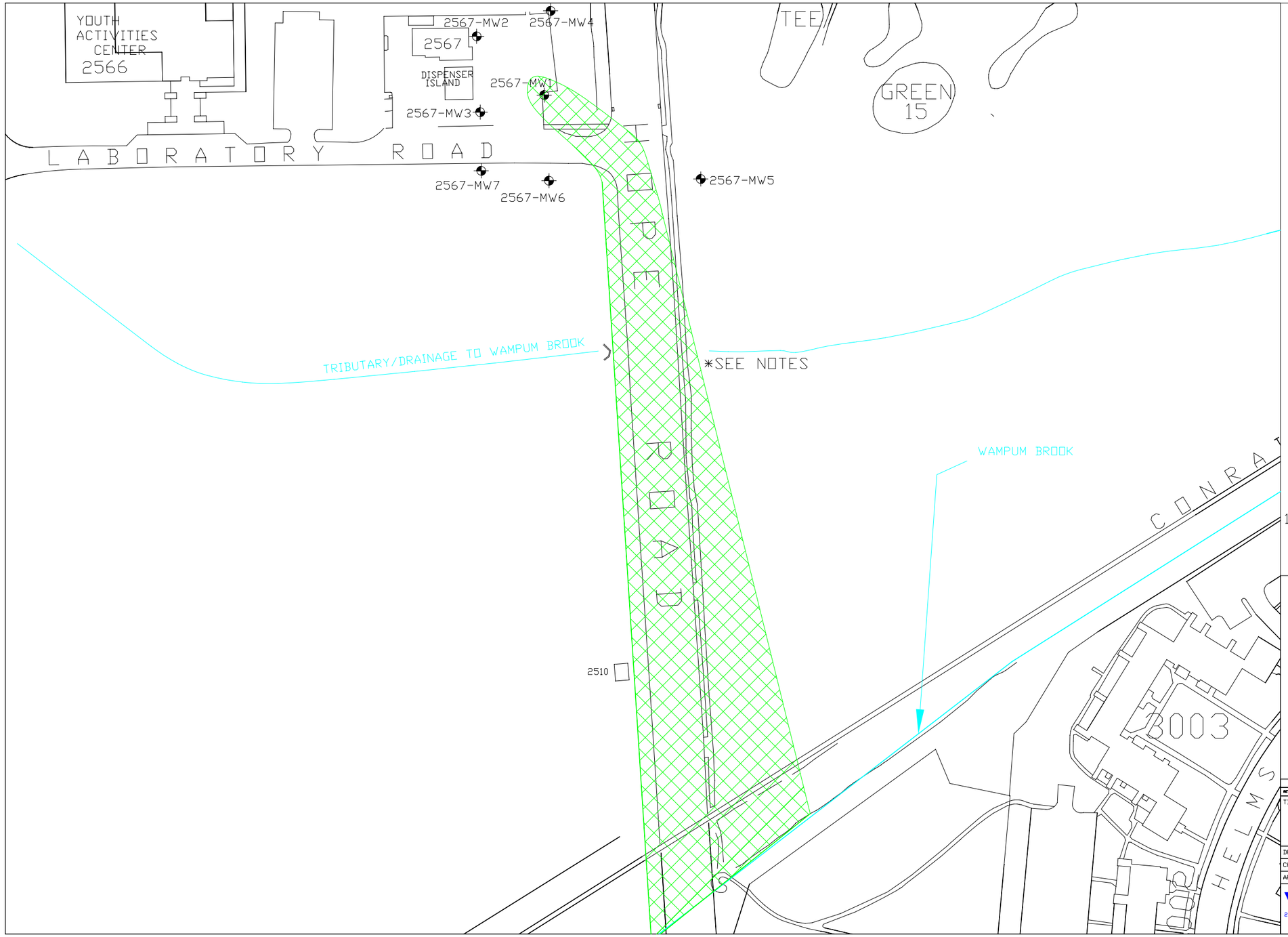


Notes:
1) Concentration is shown in micrograms per liter (ug/L), equivalent to parts per billion
2) Initial TBA concentration at well 2567-MW1 was considered to be 1488.05 ug/L on February 9, 2001.
3) Estimated time for NJDEP compliance is 3.9 years.

FIGURE 6-2

Predicted TBA Concentration at Well 2567-MW1
Site 2567
Fort Monmouth, New Jersey

Versar INC.
2558 Pearl Buck Road, Suite 1
Bristol, PA 19007
(215) 788-7844



NOTES:

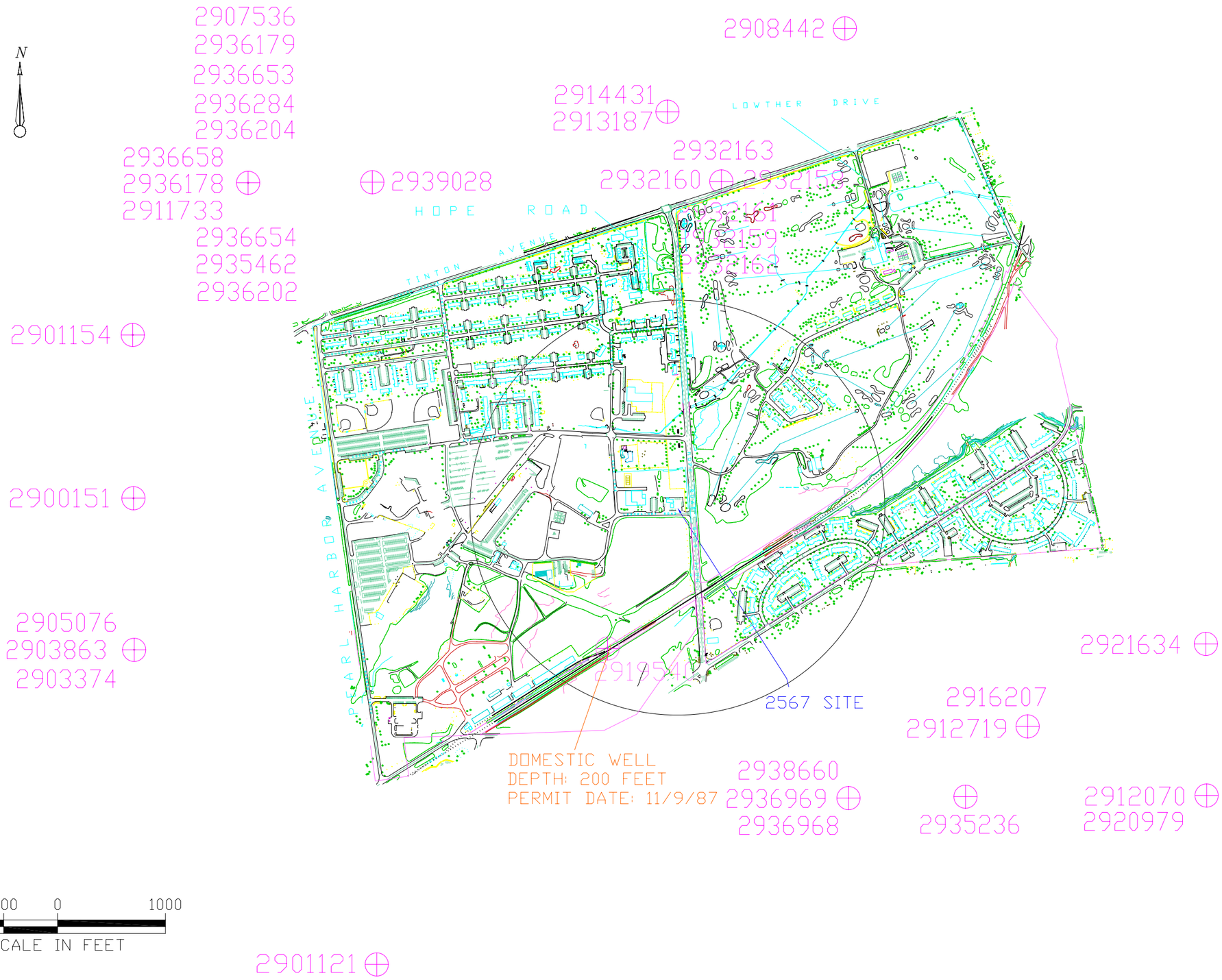
- BUILDING
- ROAD/CURB
- FENCE
- WOODED AREA
- MONITORING WELL
- PREDICTED AREAL EXTENT OF TERT-BUTYL ALCOHOL MIGRATION
- GROUNDWATER FLOW DIRECTION
- SURFACE WATER

*TBA MIGRATION MAY STOP AT THE UNNAMED TRIBUTARY TO WAMPUM CREEK

REV.	REVISIONS	APPROVED	DATE	DRAWN BY

TITLE:
FIGURE 6-3
PREDICTED MIGRATION OF TBA
SITE 2567 - CHARLES WOOD AREA
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK	DATE DRAWN: 5 SEP 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
Versar INC.	DRAWING No.: FIGURE 6-3
2558 PEARL BUCK ROAD, SUITE 1 BRISTOL, PA 19007 (215) 788-7844	FILE No.: 2567 FIGURE 6-3
	SCALE: 1" = 30'
	SHEET 1 OF 1 REV.: A



NOTES:

⊕ DOMESTIC/IRRIGATION WELL WITH PERMIT NUMBER (LOCATION WITHIN 100 FOOT ACCURACY)

○ CIRCLE PORTRAYS 1800-FOOT DISTANCE FROM SITE. THE WELL SEARCH IDENTIFIED ONE DOMESTIC WELL WITHIN 1800 FEET OF THE 2567 SITE.

TITLE:
FIGURE 6-4
DOMESTIC AND IRRIGATION WELLS
SITE 2567 - CHARLES WOOD AREA
FORT MONMOUTH, NEW JERSEY

DRAWN BY: TJK/PS	DATE DRAWN: 31 AUGUST 01
CHECKED BY:	DATE CHECKED:
APPROVED BY:	DATE APPROVED:
Versar INC.	DRAWING No.: FIG. 6-4
	FILE No.: 2567 FIG. 6-4
2558 PEARL BUCK ROAD SUITE 1 BRISTOL, PA 19007 (215) 788-7844	SCALE: 1" = 1000'
	SHEET OF REV.: A

APPENDICES

APPENDIX A

UST Closure and Site Assessment Report for Building 2567, Tanks 33 and 46, Roy F. Weston, Inc., October 1993

WESTON
MANAGERS DESIGNERS/CONSULTANTS
RARITAN PLAZA I
4TH FLOOR, RARITAN CENTER
EDISON, NJ 08837-3616
908-417-5800 • FAX: 908-417-5801

16 November 1993

Lynne Mitchell
Bureau of Underground Storage Tanks
Division of Responsible Party Site Remediation
New Jersey Department of Environmental
Protection and Energy
CN 028
Trenton, New Jersey 08625-0028

RE: UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION/ASSESSMENT REPORTS UST NOS.: 0081515-33 AND 90010-14 (TMS C91-2838)

Dear Lynne:

Roy F. Weston, Inc., (WESTON®), on behalf of the U.S. Army Fort Monmouth Directorate of Public Works (DPW), is pleased to submit copies of the Underground Storage Tank Closure and Site Investigation/Assessment Reports for USTs associated with Buildings 161 and 2567 at U.S. Army Fort Monmouth. Closure of these USTs was conducted under approval and onsite supervision of Douglas Greenfield of the New Jersey Department of Environmental Protection and Energy Central Bureau of Water and Hazardous Waste Enforcement (NJDEPE-CBWHWE).

A waste oil UST and a #2 fuel oil UST were located immediately adjacent to one another at Building 161. The same situation occurred at Building 2567. Closures of the waste oil USTs and the #2 fuel oil USTs at Buildings 161 and 2567 were conducted simultaneously. Due to the presence of a waste oil UST at these sites, closures were performed under approval by the NJDEPE-CBWHWE. At NJDEPE-CBWHWE's request, we have provided copies of the Closure and Site Assessment/Investigation Reports for Buildings 161 and 2567 for your files. The hazardous waste manifest for the contents of UST No. 0081515-33 is not included in the Closure and Site Assessment Report for Building 2567. DPW is currently attempting to obtain a copy of this manifest. No further action has been requested by the NJDEP-CBWHWE in reference to USTs associated with Buildings 161 or 2567.

Closure and Site Investigation Reports for waste oil tanks associated with Buildings 750, 1122 and 290 at U. S. Army Fort Monmouth have been submitted to, and are on file at, the NJDEPE-CBWHWE. Closure of these USTs is considered complete and no further action has been requested by the NJDEPE-CBWHWE in reference to closure of these USTs.

nk\Hubbard\Mitchell.ltr

Should you have any questions or comments, please contact Charles Appleby of the DPW at (908) 532-6224.

Very truly yours,

ROY F. WESTON, INC.,

Scott Hubbard, C.H.M.M
Project Scientist

nk\Hubbard\Mitchell.ltr

WESTON
MANAGERS DESIGNERS/CONSULTANTS
RARITAN PLAZA I
4TH FLOOR, RARITAN CENTER
EDISON, NJ 08837-3616
908-417-5800 • FAX: 908-417-5801

5 October 1993

Mr. Doug Greenfield
Case Manager
Central Bureau of Water and
Hazardous Waste Enforcement
New Jersey Department of Environmental
Protection and Energy
CN 407
Trenton, NJ 08625-0407

Work Order No.: 03886-088-001

RE: UNDERGROUND STORAGE TANK CLOSURE AND SITE ASSESSMENT REPORT - BUILDING 2567

Dear Mr. Greenfield:

Roy F. Weston Inc. (WESTON®), on behalf of the U.S. Army, Fort Monmouth, Directorate of Engineering and Housing (DEH), is pleased to submit this Underground Storage Tank Closure and Site Assessment Report for Tanks 33 and 46 at Building 2567. At DEH's request, we have provided one (1) copy of the report for your review.

Following closure, the USTs were transported to Mazza and Sons Inc. for recycling, in compliance with all applicable regulations and laws. The tank reclamation certificates from Mazza and Sons and the hazardous waste manifest for the contents of Tank 33 are not included in this report. These documents are in the possession of DEH and will be supplied to your office when available. The Closure and Site Assessment Reports for the remaining waste oil tanks will be submitted to your office no later than 22 October, 1993.

Should you have any questions or comments, please contact Charles Appleby of the DEH at (908) 532-6224.

Very truly yours,

ROY F. WESTON INC.,

Scott E. Hubbard, C.H.M.M
Project Scientist

cc: C. Appleby, DEH

nk\Hubbard\Greenfield.ltr

UNDERGROUND STORAGE TANK CLOSURE AND SITE ASSESSMENT REPORT BUILDING 2567 TANKS 33 AND 46

October 1, 1993

W.O. No.: 03886-088-001

Prepared For:

UNITED STATES ARMY, FORT MONMOUTH NEW JERSEY
DIRECTORATE OF ENGINEERING AND
HOUSING ENVIRONMENTAL OFFICE
BUILDING 167
FORT MONMOUTH, NJ 07703

Prepared by:

ROY F. WESTON, INC.
Raritan Plaza I, 4th Floor
Edison, New Jersey 08837

TABLE OF CONTENTS

SECTION	TITLE	PAGE
	EXECUTIVE SUMMARY	ES-1
1.0	**UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES**	
1.1	Overview	1-1
1.2	Site Description	1-2
1.3	Health and Safety	1-2
1.4	Removal of Underground Storage Tanks	1-2
1.4.1	General Procedures	1-2
1.4.2	Underground Storage Tank Excavation	1-4
1.5	Underground Storage Tank Transportation and Disposal	1-4
1.6	Management of Excavated Soils	1-4
2.0	**SITE ASSESSMENT ACTIVITIES**	
2.1	Overview	2-1
2.2	Field Screening/Monitoring	2-2
2.3	Soil Sampling	2-2
3.0	**CONCLUSIONS AND RECOMMENDATIONS**	
3.1	Soil Sampling Results	3-1
3.2	Conclusions and Recommendations	3-1

APPENDICES

APPENDIX A - UST DECOMMISSIONING/CLOSURE PLANS

APPENDIX B - NJDEPE UST SITE ASSESSMENT SUMMARY FORMS

APPENDIX C - ANALYTICAL DATA PACKAGE

TABLE OF CONTENTS (CONTINUED)

LIST OF TABLES

TABLE	TITLE	PAGE
2-1	Summary of Post-Excavation Sampling Activities	2-3
3-1	Summary of Analytical Results	3-2

LIST OF FIGURES

FIGURE	TITLE	PAGE
1-1	Site Location Map	1-3
2-1	Post-Excavation Sample Location Map	2-4

WESTON
MANAGERS DESIGNERS/CONSULTANTS

EXECUTIVE SUMMARY

On 31 December 1991, two single wall, steel underground storage tanks (USTs) were closed at U.S. Army Fort Monmouth, in Fort Monmouth, New Jersey. The USTs, identified as Tanks 33 and 46, were located adjacent to Building 2567 in the Charles Wood section of Fort Monmouth. Tank 33 was a 1,000-gallon capacity, No.2 fuel oil tank. Tank 46 was a 500-gallon capacity, waste oil tank. The tanks were located immediately adjacent to one another and were closed simultaneously. Fabiano and Son, Inc. performed the tank closures.

Soils surrounding the tanks were screened visually and with air monitoring instruments for evidence of contamination. The tanks were inspected following removal for corrosion holes for indications of historical leakage from the tanks. No holes were noted in the tanks and no potentially contaminated soils were identified surrounding the tanks. It should be noted, however that U.S. Army Directorate of Engineering and Housing Environmental office (DEH) records indicated that Tank 46 was never in use. This was confirmed during closure and inspection of Tank 46.

Following removal of the tanks, eight post-excavation soil samples were collected and analyzed for total petroleum hydrocarbons (TPHC). Those samples which contained a concentration of TPHC exceeding 100 milligrams per kilogram (mg/kg) were also analyzed for base neutral compounds with a forward library search for 15 tentatively identified compounds (BN+15). Only one sample (sample C91-675) contained a concentration (190 mg/kg) of TPHC exceeding 100 mg/kg. All samples contained either non-detectable concentrations of contaminants or concentrations below proposed New Jersey Department of Environmental Protection and Energy (NJDEPE) subsurface cleanup criteria.

This site is currently undergoing a groundwater investigation to address groundwater contamination identified during closure of four(4) gasoline USTs in February 1993 (NJDEPE case #89-12-12-1442). Approximately 1,000 cubic yards of potentially contaminated soils and four(4) groundwater monitoring wells were installed as part of closure of Tanks 42, 43, 44, and 45. The closure of Tanks 33 and 46 are being conducted separately from these tanks.

No further action is proposed at this site in reference to Tanks 33 and 46 since no soils were identified during closure of these tanks with concentrations of contaminants exceeding proposed NJDEPE subsurface cleanup criteria.

SECTION 1.0

UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 Overview:

Two underground storage tanks (USTs), identified as Tanks 33 and 46, were closed at Building 2567 at Fort Monmouth, New Jersey on 31 December 1991. This Underground Storage Tank (UST) Closure and Site Assessment Report was prepared by Roy F. Weston Inc., (WESTON®) to assist the United State Army Directorate of Engineering and Housing (DEH) in complying with the New Jersey Department of Environmental Protection and Energy - Bureau of Underground Storage Tanks (NJDEPE-BUST) regulations. The applicable NJDEPE-BUST regulations at the date of closure were the "Interim Closure Requirements for Underground Storage Tank Systems" (NJAC 7:14B-1 et seq. September 1990). This report presents the results of the DEH's implementation of the UST Decommissioning/Closure Plans submitted to the NJDEPE on 12 July 1991. Tank 33 was a 1,000 gallon capacity No.2 heating oil UST and Tank 46 was a 500-gallon capacity waste oil tank.

All activities associated with the decommissioning of Tanks 33 and 46 complied with all applicable Federal, State and Local laws and ordinances in effect at the date of decommissioning. These laws included but were not limited to: NJAC 7:14B-1 et seq., NJAC 5:23-1 et seq., and Occupational Safety and Health Administration (OSHA) 1910.146 &1910.120. All permits including but not limited to the NJDEPE-approved Decommissioning/Closure Plans were posted on site for inspection. Fabiano and Sons Inc., the contractors that conducted the decommissioning activities, are registered and certified by the NJDEPE for performing UST closure activities. The UST Decommissioning/Closure Plans and the UST Site Assessment Summary Forms for Tanks 33 and 46 have been included in Appendices A and B, respectively.

Based on an inspection of the USTs, field screening of subsurface soils and analytical results of soil samples collected, DEH concluded that no discharges historically occurred from the USTs. This UST Closure and Site Assessment Report provides a summary of the tank closure activities, including the results of the soil sampling investigation. Conclusions and recommendations are included in the final section of this report.

1.2 Site Description

Building 2567 is located on Hope Road in the Charles Wood section of Fort Monmouth. A site location map is provided in Figure 1-1. Building 2567 is an active gasoline service station. Four additional USTs (identified as Tanks 42-45) containing gasoline were closed at Building 2567 in February 1993 (Closure Approval No.C-92-3355/56). Approximately 1,000 cubic yard of potentially contaminated soils were removed and four groundwater monitoring wells were installed as part of closure of these tanks. The closure of these tanks and subsequent groundwater investigation is being conducted separately (NJDEPE case #89-12-12-1442) from the closure of Tanks 33 and 46.

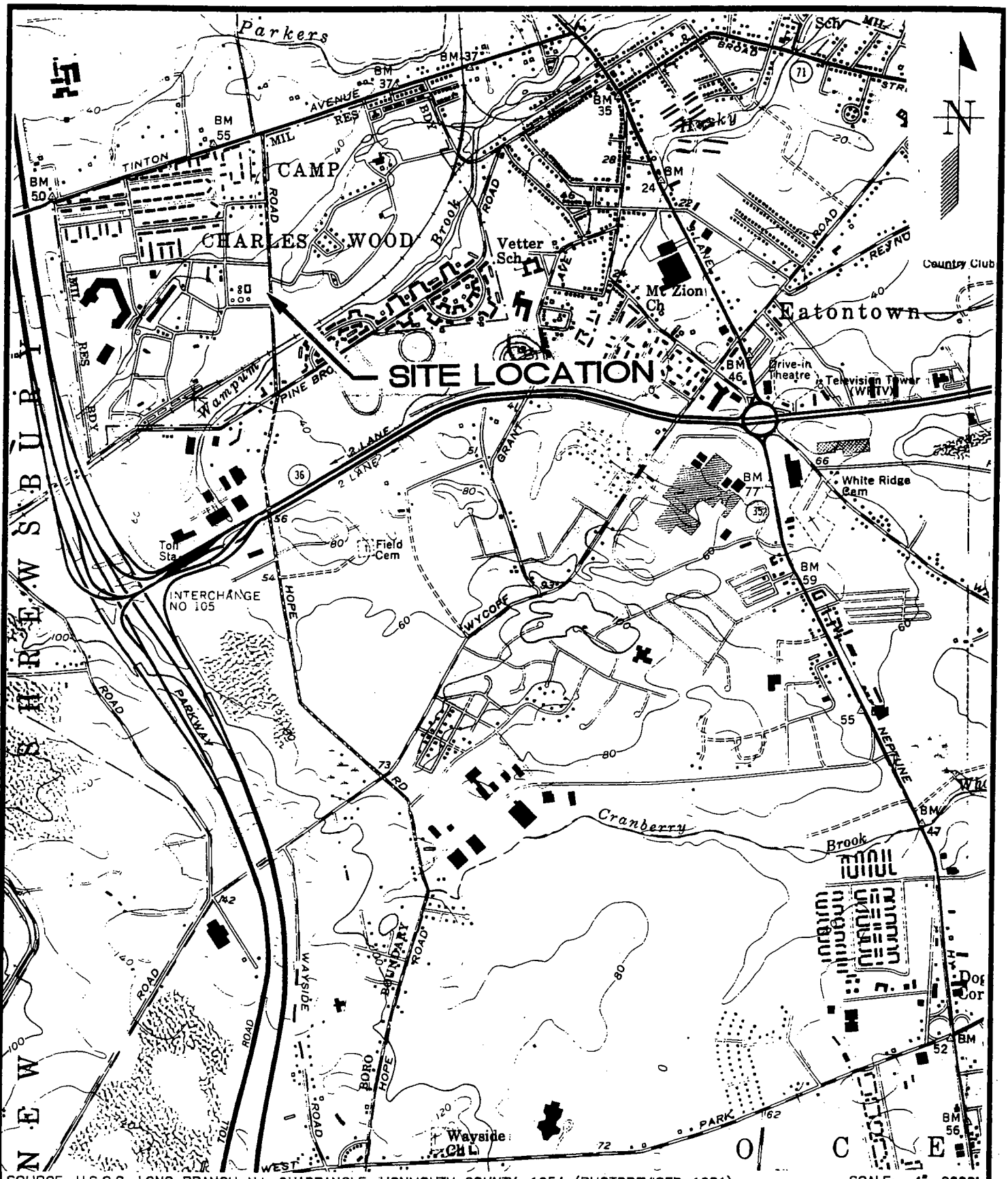
1.3 Health and Safety

Before, during, and after all activities, hazards at the work site which may have posed a threat to the health and safety of all personnel who were involved with, or were affected by, the decommissioning of the UST systems were minimized. All areas which posed, or may have been suspected to pose a vapor hazard were monitored by a qualified individual utilizing approved equipment. The individual ascertained if the area was properly vented to render the area safe, as defined by OSHA.

1.4 Removal of Underground Storage Tanks

1.4.1 General Procedures

- All underground obstructions (utilities,... etc.) were marked out by the contractor performing the closure prior to excavation activities.
- All activities were carried out with the greatest regard to safety and health and the safeguarding of the environment.
- All excavated soils were screened visually and with air monitoring instruments for evidence of contamination. No potentially contaminated soils were identified during closure activities.
- Surface materials (i.e, asphalt, concrete, etc...) were excavated and staged separate from all soils.
- A Sub-Surface Evaluator from the DEH was present during all closure activities.



SOURCE: U.S.G.S. LONG BRANCH NJ, QUADRANGLE, MONMOUTH COUNTY, 1954 (PHOTOREVISED 1981) SCALE: 1" = 2000'

WESTON
MANAGERS DESIGNERS/CONSULTANTS

PROJECT NAME:
UNDERGROUND STORAGE TANK CLOSURE AND SITE ASSESSMENT REPORT
BUILDING 2567
FORT MONMOUTH, NEW JERSEY

CLIENT NAME: U.S. ARMY-DEH FORT MONMOUTH

SITE LOCATION MAP

DATE: 09/27/93

FIGURE #: 1-1

REVISION #: 0000 L... 09/27/93 PLOT NAME: FORTSITE
FILE NAME: SITE_LOC.DWG DRAWN BY: J. DRIEEN

1.4.2 Underground Storage Tank Excavation

Soil was excavated to expose the USTs and associated piping. The piping was not removed/disturbed until all free product was drained into the USTs. The USTs were rendered vapor free by purging prior to any cutting or access. After the removal of the associated piping, manways were made in the USTs to allow for the proper cleaning of the USTs. The USTs were completely emptied of all liquids prior to removal of the USTs from the ground. Liquids were transported and disposed of by L and L Oil Co. All of the openings in the tanks were plugged except for one hole (manway).

After each UST was removed from the excavation, it was staged on polyethylene sheeting and examined for corrosion holes. The presence or absence of corrosion holes was documented by the Sub-Surface Evaluator. No corrosion holes were observed upon the inspection of each of the USTs. Soils surrounding the USTs were screened visually and with a Flame Ionization Detector (FID) for evidence of contamination. No evidence of contamination was noted. During removal of Tank 46, the 550 gallon waste oil tank, it was determined that this tank had never been in use. This was consistent with observations made by the NJDEPE representative present during removal of the tanks.

1.5 Underground Storage Tank Transportation and Disposal:

The tanks were transported by Fabiano and Sons and recycled by Mazza and Sons Inc., in compliance with all applicable regulations and laws.

The Subsurface Evaluator labelled each tank prior to transport with the following information:

- site of origin,
- contact person,
- NJDEPE UST Facility ID number,
- name of transporter/contact person, and
- destination site/contact person.

1.6 Management of Excavated Soils:

No potentially contaminated soils were excavated as part of the removal of Tanks 33 and 46. All soils were free of evidence of contamination and were backfilled into the excavation following removal of the USTs.

SECTION 2.0

SITE ASSESSMENT ACTIVITIES

2.1 Overview:

The Site Assessment was managed and carried out by U.S ARMY DEH personnel. All analyses were performed and reported by Environmental Profile Laboratories, a NJDEPE-certified testing laboratory. All sampling was performed under the direct supervision of a NJDEPE Certified Sub-Surface Evaluator according to the methods described in the NJDEPE Field Sampling Procedures Manual (1988). Sampling frequency and parameters analyzed complied with the NJDEPE-BUST document "Interim Closure Requirements for Underground Storage Tank Systems " (September 1990) which was the applicable regulation at the time of the closure. All records of the Site Assessment activities are maintained by Fort Monmouth DEH: Environmental Office.

The following Parties participated in Closure and Site Assessment activities.

- Subsurface Evaluator: DINKERRAI DESAI
  Employer: U.S. Army, Fort Monmouth
  Phone Number: (908) 532-1475

- Analytical Laboratory: Environmental Profile Laboratories
  Contact Person: DANIEL WRIGHT
  Phone Number: (908) 244-6278

- NJDEPE Representative: DOUG GREENFIELD
  DIVISION OF HAZARDOUS WASTE MANAGEMENT
  Phone Number: (609) 584-4200

- Closure Contractor: FABIANO AND SONS.
  Contact Person: Mr. Fabiano

2.2 Field Screening/Monitoring

All soils that were excavated as part of the removal of the USTs were screened using a FID, for evidence of contamination. Soils were also visually screened for evidence of contamination (staining, free product, etc..). No evidence of contamination was noted during excavation of soils.

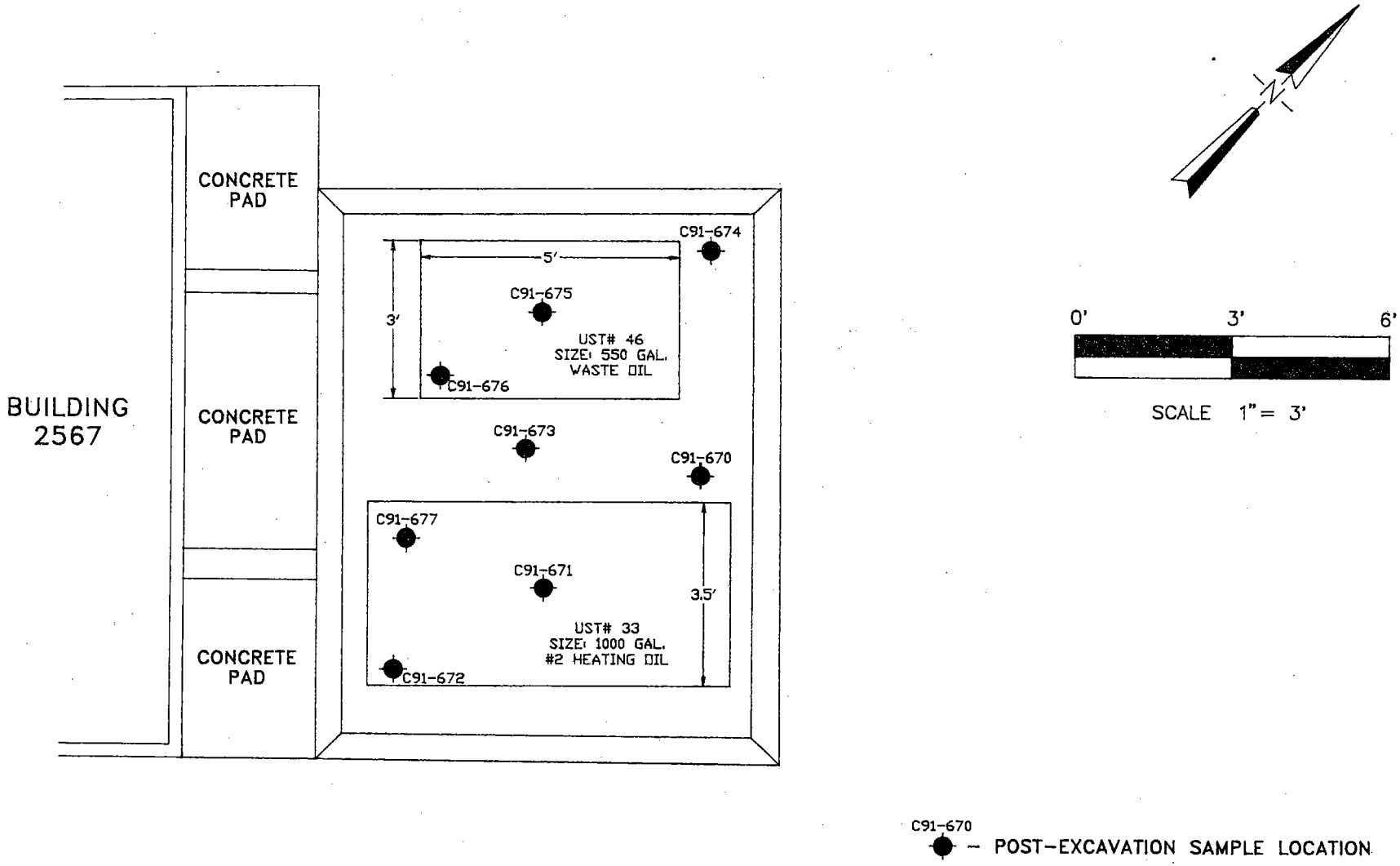
Soils on the sides and base of the excavation were screened with a FID by an individual under the direct supervision of a NJDEPE Certified Sub-Surface Evaluator. No evidence of contamination was noted within soils on the sidewalls or base of the excavation.

2.3 Soil Sampling

Following removal of Tanks 33 and 46, eight post-excavation soil samples were collected in accordance with NJDEPE procedure and the approved closure plan. A summary of sampling activities including parameters analyzed is provided in Table 2-1. Figure 2-1 depicts the location of the post-excavation samples. The samples were typically collected along the base and sidewalls of the excavation using decontaminated stainless steel scoops. Following soil sampling activities, the samples were chilled and delivered to Environmental Profile laboratories located in Toms River, New Jersey.

All samples were analyzed for total petroleum hydrocarbons (TPHC), and in accordance with NJDEPE requirements, samples containing a concentration exceeding 100 milligrams per kilograms (mg/kg) of TPHC were also analyzed for base neutral compounds with a forward library search for fifteen tentatively identified compounds (BN+15). Based on the TPHC analytical results, one sample (C91-675) was analyzed for BN+15.

Analytical parameters for post-excavation samples associated with Tank 46, the 550 gallon waste oil tank, were reduced from a priority pollutant scan plus 40 tentatively identified compounds (PP+40) based on the determination that the tank was never in use. This revised approach was verbally approved by the NJDEPE representative present onsite during closure of Tanks 33 and 46.



WESTON
MANAGERS DESIGNERS/CONSULTANTS

PROJECT NAME:
UNDERGROUND STORAGE TANK CLOSURE
AND SITE ASSESSMENT REPORT
BUILDING 2567
FORT MONMOUTH, NEW JERSEY

CLIENT NAME: U.S. ARMY-DEH
FORT MONMOUTH

POST-EXCAVATION SAMPLE LOCATIONS UST#'s 33 & 46

DATE: 09/22/93

FIGURE #: 2-1

REVISION #: 0001 DATE: 09/22/93
FILE NAME: FORT-MON.DWG DRAWN BY: J. DINEEN

WESTON
MANAGERS DESIGNERS/CONSULTANTS

TABLE 2-1

SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES
TANK NOS. 33 AND 46
BUILDING NO. 2567
FORT MONMOUTH, NEW JERSEY

Sample I.D No.	Matrix	Sample Type	Analytical Parameters	Sampling Method
C91-670	Soil	Post-Excavation	TPHC*	Stainless Steel Scoop
C91-671	Soil	Post-Excavation	TPHC*	Stainless Steel Scoop
C91-672	Soil	Post-Excavation	TPHC*	Stainless Steel Scoop
C91-673	Soil	Post-Excavation	TPHC*	Stainless Steel Scoop
C91-674	Soil	Post-Excavation	TPHC*	Stainless Steel Scoop
C91-675	Soil	Post-Excavation	TPHC* BN+15	Stainless Steel Scoop
C91-676	Soil	Post-Excavation	TPHC*	Stainless Steel Scoop
C91-677	Soil	Post-Excavation	TPHC*	Stainless Steel Scoop

TPHC - Total Petroleum Hydrocarbons. Those samples which contained concentrations of TPHC exceeding 100 mg/kg were also analyzed for BN+15.

BN+15 - Base neutral compounds with a forward library search for 15 tentatively identified compounds.

SECTION 3.0

CONCLUSIONS AND RECOMMENDATIONS

3.1 Soil Sampling Results

To evaluate soils conditions following removal of the USTs and associated soils, the post-excavation sample results were compared to proposed NJDEPE subsurface cleanup criteria (NJAC 7:26D and revisions dated 8 March 1993). A summary of the analytical results and applicable subsurface cleanup criteria are provided in Table 3-1. The analytical data package is provided in Appendix C.

TPHC was detected in samples C91-675 and C91-676 at concentrations of 190 mg/kg and 20 mg/kg, respectively. All other samples contained non-detectable concentrations of TPHC. Sample C91-675 contained TPHC at a concentration (190 mg/kg) exceeding 100 mg/kg and as required by NJDEPE, this sample was analyzed for BN+15. Di-n-butylphthalate, butylbenzylphthalate and bis(2-Ethylhexyl) phthalate were detected in sample C91-675; however, at concentrations well below proposed NJDEPE subsurface cleanup criteria. Several tentatively identified base neutral compounds were identified in sample C91-675; however, at concentrations well below proposed NJDEPE subsurface cleanup criteria.

3.2 Conclusions and Recommendations:

DEH successfully removed two USTs at Building 2567 in the Charles Wood section of Fort Monmouth. Based on visual inspection of the USTs and field screening of the soils adjacent to the USTs, it was determined that no discharges had occurred from the USTs. Analytical results of the post-excavation samples confirm that no soils are present with concentrations of contaminants exceeding proposed NJDEPE subsurface cleanup criteria.

No further action is proposed at building 2567 in reference to Tanks 33 and 46.

WESTON
MANAGERS DESIGNERS/CONSULTANTS

TABLE 3-1

SUMMARY OF ANALYTICAL RESULTS
TANK NOS. 33 AND 46
BUILDING NO. 2567,
FORT MONMOUTH, NEW JERSEY

Sample ID No.		C91-670	C91-671	C91-672	C91-673	NJDEPE Proposed Subsurface Cleanup Criteria
Lab ID No.		7013.1	7013.2	7013.3	7013.4	
Matrix		Soil	Soil	Soil	Soil	
Sample Type		PE	PE	PE	PE	
Analytical Parameter	Units					
TPHC	mg/kg	ND	ND	ND	ND	NC

Sample ID No.		C91-674	C91-675	C91-676	C91-677	NJDEPE Proposed Subsurface Cleanup Criteria
Lab ID No.		7013.5	7013.6	7013.7	7013.8	
Matrix		Soil	Soil	Soil	Soil	
Sample Type		PE	PE	PE	PE	
Analytical Parameter	Units					
TPHC	mg/kg	ND	190	20	ND	NC
Base Neutral Compounds						
Di-n-butylphthalate	mg/kg	NA	1.6	NA	NA	100
Butylbenzylphthalate	mg/kg	NA	.68	NA	NA	100
Bis(2-Ethylhexyl) phthalate	mg/kg	NA	.51	NA	NA	100

TPHC - Total Petroleum Hydrocarbons
PE - Post-Excavation.
ND - Non-Detected.
NC - No cleanup criterion has been proposed for TPHC by NJDEPE; however, the proposed NJDEPE subsurface cleanup criterion for total organic compounds is 10,000 mg/kg.
NA - Not analyzed.
mg/kg - Milligrams per Kilogram

nk\HUBBARD\U.S.ARMY.rpt

APPENDIX A

UST CLOSURE PLANS

The following UST Closure Plans for Tanks 33 and 46 were submitted by DEH to the NJDEPE in July 1991. Written Closure approvals were not received by DEH for Tanks 33 and 46; however, closure of these tanks proceeded under verbal approval by the NJDEPE Division of Hazardous Waste Management.

UST-013
9/90

FOR STATE USE ONLY
UST #
Date Rec'd
CA #
Staff

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WATER RESOURCES
BUREAU OF UNDERGROUND STORAGE TANKS
TANK MANAGEMENT SECTION

CN 029, 401 EAST STATE STREET
TRENTON, N.J. 08625-0029

UNDERGROUND STORAGE TANK CLOSURE PLAN APPROVAL APPLICATION

Under the provisions of the Underground Storage of Hazardous Substances Act in accordance with N.J.A.C. 7:14B-9 et seq.

This application form shall be used by all applicants who plan to close Underground Storage Tank Systems pursuant to N.J.A.C. 7:14B-9 et seq.

INSTRUCTIONS:

- *Before completing application form please refer to the attached Application Instruction Sheet.*
- *Please print legibly or type.*
- *Fill in all appropriate blanks. This application form requires that additional sheets be attached for some of the information requested. You may call the Bureau of Underground Storage Tanks/Tank Management Section (609/984-3156) for assistance.*
- *Return one original of this form (including all attachments required) and a copy of the complete Standard Reporting Form (SRF) to the address above. You must sign all forms as required and attach a check for the proper fee (see the fee schedule on Page 3). Make check payable to the Treasurer, State of New Jersey.*
- *If the subject facility is not registered the Closure Plan will not be approved.*
- *Please Note: Make sure that all required informaiton on the Standard Reporting Form (SRF) is submitted. The SRF and this Closure Plan Application must be submitted together.*

Date of Application 7/12/91

FACILITY REGISTRATION #

0081515 - 33

I. FACILITY NAME AND ADDRESS

U.S. Army Fort Monmouth

DEH Bldg. 167

Fort Monmouth NJ 07703

Telephone No. (908) 532-1475 Dinkerrai Desai

II. THIS CLOSURE PLAN IS FOR:

A. Substance stored in subject tank(s):

1. Petroleum Products

   Indicate Type of Product Heating oil #2
   (Write out product name;, e.g.)

   a. Gasoline, Jet Fuel, or Kerosene
   b. Heating Oil (#2, 4, 6), or Diesel
   c. Waste Oil (Please indicate total storage capacity of waste oil at the facility [including the tank(s) being closed]) N/A gals.

2. Hazardous Substances other than Petroleum Products *(Describe)*

   Indicate Type of Product N/A
   (Write out product name; add sheet if necessary.)

B. Type of Activity: *(Circle one)*

1. Abandonment of Tank(s)

   Attach the closure plan for abandonment, as required by N.J.A.C. 7:14B-9.2(b) or 9.3(b), which must contain the following items:

   a. Implementation schedule (3 copies per N.J.A.C. 7:14B-9.2(a)3)
   b. Site assessment plan
   c. Tank decommissioning plan
   d. A site map
   e. Attach all justification for abandonment-in-place as required by N.J.A.C. 7:14-9.1(d). Attach the certification statement (on the back page) for abandonment-in-place, if applicable.

2. Removal of Tank(s)

   Attach the closure plan for removal as required by N.J.A.C. 7:14B-9.2(b) or 9.3(b). The following items must be included:

   ✓ a. Implementation schedule (3 copies)
   ✓ b. Site assessment plan
   ✓ c. Tank decommissioning plan
   ✓ d. A site map

3. Temporary Closure

   Indicate which situation applies and attach appropriate documentation.

   a. ____ Temporary closure for 12 months or less is subject to requirements of N.J.A.C. 7:14B-9.1(a).

   b. ____ Requesting an extension of temporary closure for more than 12 months per N.J.A.C 7:14B-9.1(b) must perform site assessment and submit results.

4. Change in Service

   Attach documentation that the tank system being changed from the storage of a regulated to a non-regulated substance has been emptied and cleaned and that a site assessment has been performed, as required by N.J.A.C. 7:14B-9.1(e).

III. FEE SCHEDULE

Check the activities below that apply, calculate the Total Fee and submit that amount with this application. Make checks payable to **Treasurer, State of New Jersey.** Public schools and religious and charitable institutions are exempt form the fees. The owner or operator shall submit a separate fee for each excavation where an activity occurs.

A. Activities Which Require a Site Assessment 1. Removal or Abandonment without exemption to site assessment requirement	120.00	$ 120.00
2. Change in service from a regulated substance to a non-regulated substance		
3. Extension of period of Temporary Closure		
B. Activities Not Requiring a Site Assessment 1. Removal or abandonment with valid exemption	_____	$ 80.00
C. Additional Activities 1. Change in service from one regulated substance to another regulated substance		NO FEE
APPLICATION REVIEW FEE (activities in A, B, C) +	$ 50.00	
TOTAL FEE DUE	$ 170.00	

IV. THE BUREAU OF UNDERGROUND STORAGE TANKS WILL REVIEW THE CLOSURE PLAN FOR COMPLETENESS AND APPROPRIATENESS AS SPECIFIED IN SUBCHAPTER 9 OF THE UST REGULATIONS. PLAN APPROVAL WILL INDICATE THAT THE OWNER OR OPERATOR MAY PROCEED WITH THE CLOSURE. **FINAL APPROVAL OF THE CLOSURE IS NOT IMPLIED.** ALL APPROPRIATE AND APPLICABLE PERMITS, LICENSES AND CERTIFICATES REQUIRED FOR ANY OF THE ABOVE ACTIVITIES FROM ANY LOCAL, STATE AND/OR FEDERAL AGENCIES MUST BE OBTAINED SEPARATELY FROM THIS APPLICATION.

THE SITE ASSESSMENT SAMPLING AND ANALYTICAL REQUIREMENTS WILL BE SENT WITH THE APPROVAL TO PROCEED.

NOTE: Notice of Approval to Proceed or Disapproval will be mailed to the facility address unless some other address is specified here.

_____

_____

_____

SIGNATURE OF CONTACT PERSON

This application form must be signed by a contact person of the owner or operator of the subject facility. The contact person should have overall knowledge of tank decommissioning procedures and the site assessment requirements applicable to the tank closure which is the subject of this application.

NAME (Print or Type) Dinkerrai Desai *SIGNATURE* _____

TITLE DEH Environmental Coordinator *DATE* 7/12/91

III. FEE SCHEDULE

Check the activities below that apply, calculate the Total Fee and submit that amount with this application. Make checks payable to **Treasurer, State of New Jersey.** Public schools and religious and charitable institutions are exempt form the fees. The owner or operator shall submit a separate fee for each excavation where an activity occurs.

A. Activities Which Require a Site Assessment	120.00	$ 120.00
1. Removal or Abandonment without exemption to site assessment requirement		
2. Change in service from a regulated substance to a non-regulated substance		
3. Extension of period of Temporary Closure		
B. Activities Not Requiring a Site Assessment		$ 80.00
1. Removal or abandonment with valid exemption		
C. Additional Activities		
1. Change in service from one regulated substance to another regulated substance		NO FEE
APPLICATION REVIEW FEE (activities in A, B, C) +	$ 50.00	
TOTAL FEE DUE	$ ~~170.00~~	N/A

IV. THE BUREAU OF UNDERGROUND STORAGE TANKS WILL REVIEW THE CLOSURE PLAN FOR COMPLETENESS AND APPROPRIATENESS AS SPECIFIED IN SUBCHAPTER 9 OF THE UST REGULATIONS. PLAN APPROVAL WILL INDICATE THAT THE OWNER OR OPERATOR MAY PROCEED WITH THE CLOSURE. **FINAL APPROVAL OF THE CLOSURE IS NOT IMPLIED.** ALL APPROPRIATE AND APPLICABLE PERMITS, LICENSES AND CERTIFICATES REQUIRED FOR ANY OF THE ABOVE ACTIVITIES FROM ANY LOCAL, STATE AND/OR FEDERAL AGENCIES MUST BE OBTAINED SEPARATELY FROM THIS APPLICATION.

THE SITE ASSESSMENT SAMPLING AND ANALYTICAL REQUIREMENTS WILL BE SENT WITH THE APPROVAL TO PROCEED.

NOTE: Notice of Approval to Proceed or Disapproval will be mailed to the facility address unless some other address is specified here.

_____

_____

_____

SIGNATURE OF CONTACT PERSON

This application form must be signed by a contact person of the owner or operator of the subject facility. The contact person should have overall knowledge of tank decommissioning procedures and the site assessment requirements applicable to the tank closure which is the subject of this application.

NAME (Print or Type) Dinkerrai Desai *SIGNATURE* _____

TITLE DEH Environmental Coordinator *DATE* 7/12/91

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 7/10/91

NJDEP UST REG #: 0081515 - 46

Underground Storage Tank (UST)
Decommissioning / Closure Plan

A. General Requirments:

All activities associated with the decommissioning of any underground storage tank (UST) shall comply with all applicable Federal, State and Local laws and ordinances. These laws include but are not limited to: NJAC 7:14B et seq., 5:23 et seq. and OSHA 1910.146, 1910.120. All permits including but not limited to this document, the NJDEP Closure Plan Approval Package, etc... , shall be posted on site for inspection. The contractor conducting the decommissioning activities shall be registered by the NJDEP for performing said activities.

B. Safety and Health:

Before, during, and after all activities, the work site shall be made free of all hazards which may pose a threat to the health and safety of all personnel who are involved with, or are affected by, the decommissioning of the UST. All areas which pose, or may be suspected of posing, a vapor hazard shall be monitored by a qualified individual utilizing approved equipment. This individual will ascertain if the area is properly vented to render the area safe, as defined by OSHA.

C. UST Excavation:

1. All underground obstructions (utilities,... etc.) shall be marked out by the contractor performing the excavation.
2. All activities shall be carried out with the greatest regard to safety and health and the safeguarding of the environment.
3. All excavated soils will be evaluated as to the possibility of contamination. Soils suspected to be contaminated with product shall be staged on poly-sheeting separate from soils not suspected to be contaminated (see section E. Excavated Soils Management).
4. Surface materials (ie. asphalt, concrete, ect...) shall be excavated and staged separate from all soils.
5. Soil will be excavated to expose the UST and associated piping. The piping shall not be removed / disturbed until all free product is drained into the UST. The UST will be rendered vapor free prior to any cutting or access. After the removal of the associated piping, a manway will be made in the UST to allow for the proper cleaning of the UST.

6. After the UST is removed from the ground, it will be staged on poly-sheeting and examined for corrosion holes. The presence or absence of corrosion holes will be documented by the contractor. If corrosion holes are observed, or if upon inspection of the excavation site evidence of a discharge to the environment, the NJDEP hotline shall be notified.
7. In the event of a discharge to the environment, additional soils will be excavated. Site assessment activities will determine to what depth the contractor will excavate.
8. After completion of the Site Assessment activities, the excavation will be lined with poly-sheeting and backfilled to grade with noncontaminated soils from the site and additional certified clean fill provided by the contractor.

D. UST Transport / Disposal:
1. The tank will be transported and disposed / recycled in compliance with all applicable regulations and laws.
2. The contractor shall label the tank with the following information:
   a. site of origin
   b. generator / contact person
   c. NJDEP UST ID number
   d. product previously stored
   e. name of transporter / contact person
   f. destination site / contact person
   g. other info. as required
3. The contractor shall provide Fort Monmouth with sufficient documentation certifying that transport / disposal (recycling) of the tank was completed according to all applicable Federal and State regulations.

E. Excavated Soils Management:
1. All excavated soils suspected to be contaminated will be transported, by the contractor, to a designated staging area. The designated area will contain the soils as well as manage all stormwater runoff.
2. All soils stored in the designated staging area will be maintained in piles no larger than 100 cubic yards each. Each pile will be lined and covered with poly-sheeting and weighted to ensure containment.
3. Each soil pile will be sampled and analyzed for waste classification as outlined in the NJDEP document titled "Management of Excavated Soils" dated August 17, 1990.

4. All soils catagorized as Hazardous waste or non-hazardous waste will be managed as such, in accordance with N.J.A.C. 7:26-1 et seq..
5. All soils that contain levels of contaminants below the Catagory 3 soil limits will be used in accordance with Federal and State requirments.

F. Changes / Authorizations:
1. All deviations in activities related to the closure of a UST as outlined in this document shall require prior authorization from the NJDEP-DWR-BUST.

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 7/12/91
NJDEP UST REG #: 0081515-46

UNDERGROUND STORAGE TANK (UST) SITE ASSESSMENT PLAN

A. General:
This site specific assessment plan will be managed and carried out by U.S. Army DEH and Serv-Air Inc. personnel. All analyses will be performed and reported by NJDEP certified testing laboratries. All monitoring wells will be installed by NJDEP licensed well drillers. All sampling will be performed according to methods described in the NJDEP Field Sampling Procedures Manual. All records of the Site Assessment will be maintained by DEH and submitted to the NJDEP-DWR-BUST in accordance with N.J.A.C. 7:14B-9.2 and 9.3.

PHASE I
UST Decommissioning

A. Initial Soil Excavation:
1. Soil will be excavated from the UST site and screened utilizing a Photo Ionization Detector (PID) and/or a Flame Ionization Detector (FID).
2. All soils suspected to be contaminated will be treated in accordance with the UST Decommissioning Plan.

B. Continued Excavation:
1. Excavation of suspect contaminated soil will continue until one of the following situations is encountered:
   a. groundwater
   b. excavated soils no longer exhibit characteristics of contamination
   c. excavation equipment can no longer remove soils due to depth or other restrictive cause.

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 7/12/91

NJDEP UST REG #: 0081515 - 46

PHASE II
Site Survey

A. Vapor Screening:
1. An individual trained in the operation of a FID and/or PID shall evaluate the sides and pit bottom of the excavation.
2. All observed instrument readings will be documented and included in the Site Assessment Survey report. This documentation will include all factory and daily calibrations of the instrument.

PHASE III
Site Sampling

A. Soil samples will be collected from the UST excavation and analyzed according to the following schedule:

TANK	CAPACITY	PRODUCT	TPHC SAMPLES	B/N +15 (IF TPHC >100)	VOA +15 LEAD, XYLENE (IF TPHC >100)	PP+15 (IF TPHC >100)
46	550g.	Wasteoil	4	N/A	N/A	4

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 7/12/91
NJDEP UST REG #: 0081515 -46

B. Soil samples will be collected from the Pipe excavation and analyzed according to the following schedule:

TANK	LENGTH OF PIPE	PRODUCT	BN +15 (If TPHC >100)	VOA +15 Lead, Xylene (If TPHC >100)	PP+15	TPHC
#46	<15	WASTE OIL	N/A	N/A	N/A	N/A

C. All samples will be taken in the native soil below the bedding material. The sample locations should be along the mid-lines of the tank outline except for at least two of the samples which should be taken within one foot of each of the two highest field survey readings. All of the soil samples should be discrete samples taken within a 6" vertical interval. All samples will be collected by utilizing laboratory decontaminated stainless steel trowels dedicated to each sample location.

D. The excavation will remain open until laboratory results determine all TPHC samples are less than 100 ppm. If levels greater than 100 ppm are reported, further excavation and resampling may be requested for those specific areas. If further excavation is not possible, additional required analyses will be performed and the excavation lined with poly-sheeting and filled to grade with certified clean fill.

U.S. Army
DEH Bldg. 167
SELFM-EH
Fort Monmouth, NJ 07703

Date: 7/12/91
NJDEP UST REG #: 008151S - 46

PHASE IV
Groundwater Monitoring

A. Monitoring wells will be installed within the UST field at all UST locations where the tank(s) being closed stored gasoline, kerosene, jet fuel and/or site specific factors indicate a known or potential impact of soil contamination exists.

B. Groundwater monitoring wells will be installed by a New Jersey licensed Well Driller in accordance with N.J.S.A 58:4A-4.1 et seq..

C. All monitoring wells will be sampled as described in the NJDEP Field Sampling Procedures Manual, 1988.

D. All monitoring wells will be analyzed in accordance with the following table:

TANK	PRODUCT	MONITORING WELL(S)	(A) EPA Method 624	(B) EPA Method 625
46	Waste oil	Not Required	N/A	N/A

Note (A): Sample must be analyzed by EPA Method 624 + 15 (GC/MS plus identification of non-targeted compounds) modified to include calibration for xylenes, methyl tertiary butyl ether (MTBE), and tertiary butyl alcohol (TBA)

Note (B): Sample must be analyzed by EPA Method 624 + 15 (GC/MS plus identification of non-targeted compounds) modified to include calibration for xylenes; AND EPA Method 625 + 15 (base/neutral extractable extractable organics).

C. All monitoring well sampling will be conducted according to methods described in the NJDEP Field Sampling Procedures Manual February 1988

D. All laboratory analyses will be performed by NJDEP certified Laboratories using approved methods and following all Quality Control/Assurance procedures.

Administrative Check List
Underground Storage Tank
Closure

Submission and/or Activity	Completed Yes	Completed No	Submitted (NJDEP) Yes	Submitted (NJDEP) No
UST Registration	yes		yes	
Site Investigation (Preliminary)				
Standard Reporting Form (Closure)	yes			
Closure Plan Approval Application	yes			
Fees ($ 500) Blanket DHWM	yes			
Implementation Schedule (3 copies)	yes			
Site Assessment Plan	yes			
Decommissioning Plan	yes			
Site Map	yes			
Certificate For Abandonment-In-Place	N/A			
UST Site Assessment Summary				
Analytical Results (Soil)				
Analytical Results (M-Well Two Rounds)				
Chain of Custody				
Laboratory Authentication Statement				

UST NO.

Tank I.D. No.	TANK NO. 46	TANK NO. 47	TANK NO. 48	TANK NO. 49	TANK NO. 50
27. Tank Status (MARK ONE X)					
A. Operational	☐	☒	☒	☒	☒
(+)B. Temporarily out of service (Less than 90 days)	☐	☐	☐	☐	☐
(+)C. Extended out of service (90 days to 2 years)	☐	☐	☐	☐	☐
D. Long term out of service (Greater than 2 years)	☐	☐	☐	☐	☐
* SEE BELOW E. Abandoned, in place	☐	☐	☐	☐	☐
F. Abandoned, in place, filled only	☐	☐	☐	☐	☐
G. Abandoned, in place, sealed only	☐	☐	☐	☐	☐
H. Abandoned, in place, filled and sealed	☐	☐	☐	☐	☐
(+) J. Seasonal (Answer only for motor fuel uses)	☐	☐	☐	☐	☐
K. Prior retrofitting work, Please Specify					
L. Other, Please Specify	Removed 7/88				
28. Spill recovery system on-site (MARK ONE X)					
A. Yes	☐	☒	☒	☒	☐
B. No	☒		☐	☐	☒
29. Overfill protection (tank only) (MARK ONE X)					
A. Yes	☐	☒	☒	☒	☐
B. No	☒	☐	☐	☐	☒
30. Emergency shut-off mechanisms (dispensers) (MARK ONE X)					
A. Yes	☐	☒	☒	☒	☐
B. No	☒	☐	☐	☐	☒

* If boxes 27 E, F, G or H above have been answered - answer questions 31, 32 and 33 below.

31. Substance last used in tank (MARK ONE X)					
A. Leaded gasoline	☐	☐	☐	☐	☐
B. Unleaded gasoline	☐	☐	☐	☐	☐
C. Alcohol enriched gasoline	☐	☐	☐	☐	☐
D. Light diesel fuel (No. 1-D)	☐	☐	☐	☐	☐
E. Medium diesel fuel (No. 2-D)	☐	☐	☐	☐	☐
F. Waste oil	☐	☐	☐	☐	☐
G. Kerosene (No. 1)	☐	☐	☐	☐	☐
H. Home heating oil (No. 2)	☐	☐	☐	☐	☐
I. Heating oil (No. 4)	☐	☐	☐	☐	☐
J. Heavy heating oil (No. 6)	☐	☐	☐	☐	☐
K. Aviation fuel	☐	☐	☐	☐	☐
L. Hazardous substances (per Fact Sheet)	☐	☐	☐	☐	☐
M. Other, Please Specify					
32. Estimated date last used (month/year)	Mo. Yr.	Mo. Yr.	Mo. Yr.	Mo. Yr.	Mo. Yr.
33. Estimated quantity (gallons) left in tank					

OWNER OR OWNER'S AGENT CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

(SIGNATURE)

(PRINT OR TYPE NAME)

(TITLE)

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Water Resources
CN-029
Trenton, New Jersey 08625

FOR STATE USE ONLY

UST #. 0021515

	YES	NO
CK. IN	☐	☐
AMT.	☐	☐
AUTH	☐	☐
SP ROUTE	☐	☐
SITE PLN	☐	☐
SIGN	☐	☐
COMCODE		

UNDERGROUND STORAGE TANK REGISTRATION QUESTIONNAIRE

Bureau of Underground Storage Tanks
Registration Section
1-800-722-TANK

COMPLIANCE WITH THIS REGISTRATION WILL MEET ALL REQUIREMENTS OF STATE LAW. P.L. 1986, c. 102. THE UNDERGROUND STORAGE OF HAZARDOUS SUBSTANCES ACT. N.J.S.A. 58:10A-21. 4/1

General Facility Information

1. Facility name:
2. Facility location: NUMBER AND STREET; CITY OR MUNICIPALITY; COUNTY; STATE (N J); ZIP CODE
3. Owner's mailing address: NUMBER AND STREET; CITY OR MUNICIPALITY; COUNTY; STATE; ZIP CODE
4. Owner's name:
5. Contact person (Facility Operator): PERSON OR TITLE
6. Contact telephone number: AREA CODE; EXCHANGE; NUMBER
7. Total number of facility underground storage tanks ☐☐☐☐ (Complete Questions 12 thru 33) for each tank
8. Total facility underground storage tank capacity (gallons)
9. Status of owner: (mark one) A. ☐ CURRENT B. ☐ FORMER
10. Type of owner: (mark one) A. ☐ STATE OR LOCAL GOVERNMENT B. ☐ PRIVATE OR CORPORATE C. ☐ OWNERSHIP UNCERTAIN D. ☐ FEDERAL GOVT. (GSA FACILITY I.D. NUMBER)
11. Two copies of a site plan are submitted with this registration. A. ☐ YES B. ☐ NO

Submit two (2) copies of SITE PLAN showing facility or property boundary, buildings and the location of ALL underground storage tanks. EITHER, an existing engineering site plan, if available, OR a neat and legible hand-drawn sketch of the site may be submitted. In either case the site plan or sketch MUST show the location and distances that tanks, buildings, and dispensers are from the facility's property boundary. Include all tanks that are operating or existing, (E); abandoned, (A); or out of service, (C). Each ur Jerground tank on the site plan or sketch shall be numbered in accordance with the instructions for question 12. The number assigned to a tank on the site plan or sketch MUST match and be identical to the tank identification number assigned to that tank on this form.

INCLUDE FACILITY NAME, OWNER'S NAME, FACILITY ADDRESS AND TELEPHONE NUMBER ON ALL SITE PLANS.

UST NO._____

ALL underground tanks, including those taken out of operation, (UNLESS THE TANK WAS REMOVED FROM THE GROUND) must be included in this registration. All in-ground tanks shall be reported as underground tanks on this questionnaire regardless of their current status; Existing, E; Abandoned, A; or out of service, C.

SPECIFIC TANK INFORMATION

	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
12. Tank Identification Number	46	47	48	49	50
13. CASRN Number (Hazardous Substances Only)					
14. Tank Age (Years)	18	1	1	1	1
15. Tank Size (gallons)	550	10,000	10,000	10,000	2000
16. Tank Contents (MARK ONE X)					
A. Leaded gasoline	☐	☐	☐	☐	☐
B. Unleaded gasoline	☐	☐	☐	☐	☐
C. Alcohol enriched gasoline	☐	☐	☐	☐	☐
D. Light diesel fuel (No. 1-D)	☐	☐	☐	☐	☐
E. Medium diesel fuel (No. 2-D)	☐	☐	☐	☐	☐
F. Waste oil	☒	☒	☐	☐	☐
G. Kerosene (No. 1)	☐	☐	☐	☐	☐
H. Home heating oil (No. 2)	☐	☐	☐	☐	☐
J. Heating oil (No. 4)	☐	☐	☐	☐	☐
K. Heavy heating oil (No. 6)	☐	☐	☐	☐	☐
L. Aviation fuel	☐	☐	☐	☐	☐
M. Hazardous substances (per Fact Sheet)	☐	☐	☒	☒	☒
N. Other; Please Specify					
17. Tank and Piping Construction (MARK ALL THAT APPLY X)	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
A. Bare steel	☒ / ☒	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
B. Carbon steel	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
C. Stainless steel	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
D. Aluminum	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
E. Polyvinyl chloride	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
F. Concrete	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
G. Bronze	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
H. Earthen walls	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
J. Fiberglass reinforced plastic	☐ / ☐	☒ / ☒	☒ / ☒	☒ / ☒	☒ / ☒
K. Fiberglas-clad steel	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
L. Painted/asphalt steel	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
M. Vaulted	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
N. Composite	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
P. Iron (cast or ductile)	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
R. Non-metallic	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
S. Other; Please Specify					
18. Tank and Piping Structure (MARK ALL THAT APPLY X)	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
A. Single wall	☒ / ☒	☐ / ☐	☐ / ☐	☐ / ☐	☒ / ☒
B. Double wall	☐ / ☐	☒ / ☒	☒ / ☒	☒ / ☒	☐ / ☐
C. Manway in tank	☐	☒	☒	☒	☐
19. Internal Tank and Piping Lining (MARK ALL THAT APPLY X)	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
A. Rubber	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
B. Epoxy	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
C. Alklyd	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
D. Phenolic	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
E. Glass	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
F. Clay	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐	☐ / ☐
G. None	☒ / ☒	☒ / ☒	☒ / ☒	☒ / ☒	☒ / ☒
H. Other, Please Specify					

UST NO._____

Tank I.D. No.	TANK NO. 46		TANK NO. 47		TANK NO. 48		TANK NO. 49		TANK NO. 50	
20. Tank and Piping Lining installed (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. At purchase of tank	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Retrofitted	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. None	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
21. Secondary containment (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Liner	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Vault	☐	☐	☒	☐	☒	☐	☒	☐	☐	☐
C. Double wall	☐	☐	☒	☒	☒	☒	☒	☒	☐	☐
D. None	☒	☒	☐	☐	☐	☐	☐	☐	☒	☒
E. Other, Please Specify										
22. External Type/Application of Cathodic Protection (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Wrapped	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Sprayed	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Sacrificial anode	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. Impressed current	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. None	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
F. Other, Please Specify										
23. Monitoring/detection method (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Automatic sampling	☐	☐	☒	☒	☒	☒	☒	☒	☐	☐
B. Manual sampling	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
C. Ground water monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. System in secondary containment	☐	☐	☒	☒	☒	☒	☒	☒	☐	☐
E. System outside backfill	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. System within piping (piping leak detector)	☐	☐	☒	☒	☒	☒	☒	☒	☐	☐
G. None	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
24. Type of monitoring/detection system (MARK ALL THAT APPLY X)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Continuous	☐	☐	☒	☒	☒	☒	☒	☒	☐	☐
B. Event activated	☐	☐	☒	☒	☒	☒	☒	☒	☐	☐
C. Audio	☐	☐	☒	☒	☒	☒	☒	☒	☐	☐
D. Visual	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. Electric sensor	☐	☐	☒	☒	☒	☒	☒	☒	☐	☐
F. Stock/inventory control (manual)	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
G. Stock/inventory control (electronic)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
H. Tile drain	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
J. Vapor sniff wells	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
K. Internal Inspection	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
L. Other, Please Specify										
M. None	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
25. Tank/piping tested (any type) (MARK ALL THAT APPLY X)										
A. Yes	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. No	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
C. Test positive (MARK IF LEAK WAS DISCOVERED)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. None (Never tested)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
26. Leak/spill occurrence (MARK ALL THAT APPLY X)										
A. Within the past 1 year	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
B. Within the past 1 to 5 years	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. More than 5 years ago	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
D. No Records	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
E. None	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
Trenton, N.J. 08625-0029

ATTN: BUST Program
(609) 984-3156

For State Use Only

Date Rec'd. _____
Auth. _____
Routing _____
UST NO. _____

STANDARD REPORTING FORM
for reporting activities at an UST facility:

____ General Facility Information Changes
✓ Closure (Abandonment or Removal)
____ Temporary Closure
____ Change in Service
____ Sale or Transfer
____ Substantial Modification
____ Financial Responsibility
____ Address Change Only

Check ONLY One Type of Activity – Complete Form For That Activity

(More than one tank can be listed per activity)

*** * * NOTE * * * ALL NEW tank installations at existing registered facilities must submit a Registration Questionnaire for the new tanks.**

Answer questions 1 through 5 and others as applicable.

1. Company name and address (as it appears on registration questionnaire):
   U.S. Army Fort Monmouth
   DEH Bldg. #167
   Fort Monmouth NJ 07703
   ATTN. Dinkerrai Desai

2. Facility name and location (if different from above):
   Bldg. 2567

3. Contact person for this activity:
   Dinkerrai Desai
   Telephone Number: (908) 532-1475

4. The identification number of the affected tank as it appears in Question Number 12 on the Registration Questionnaire:
   46

5. Registration Number (if known): UST - 0081515

6. For GENERAL FACILITY INFORMATION changes (address, telephone, contact person, etc. – supply NEW information only):

   a. Facility name: _____
   b. Facility location: _____
   c. Owner's mailing address: _____
   _____
   _____ NJ _____
   _____
   d. Block: _____ Lot: _____
   e. Contact person (facility operator): _____
   f. Contact telephone number: (_____) _____ – _____
   g. Other (Specify): _____

(OVER)

7. For CLOSURE (abandonment or removal – check all that apply):
   a. ☐ Abandonment
      Attach the necessary implementation schedule (3 copies) and all documentation needed for abandonment per N.J.A.C. 7:14B-9.1 (d).
   b. ☑ Removal
      Attach the necessary implementation schedule (3 copies).

8. For CHANGES IN HAZARDOUS SUBSTANCES STORED (check all that apply):
   a. ☐ Temporary Closure (12 month maximum time – see N.J.A.C. 7:14B-9.1(b)). Remove all hazardous substances; leave tank in place.
   b. ☐ Change in service from a regulated substance to a non-regulated substance. Tank must be cleaned and site assessment performed per N.J.A.C. 7:14B-9.1(e).
   c. ☐ Changes in service from one regulated hazardous substance to another regulated hazardous substance.

      Tank No. _____ Old _____ New _____
      Tank No. _____ Old _____ New _____
      Tank No. _____ Old _____ New _____
      (Attach additional sheets if more space is needed)

9. For TRANSFER OF OWNERSHIP:
   a. New Owner (operator) _____
   b. New Facility Name _____
      _____
      _____ NJ _____
      _____
      County
   c. Closing Attorney _____ Tele: (_____) _____ – _____

10. For SUBSTANTIAL MODIFICATIONS (to include any retrofitted activity – e.g. the addition of spill/overfill protection monitoring systems, cathodic protection, etc.):
    a. Type of Modification _____
    b. * NOTE * Substantial modifications require a permit under N.J.A.C. 7:14B-10.

11. For changes in FINANCIAL RESPONSIBILITY to (check appropriate changes and attach copies of new information):
    a. Policy Type: ☐
    b. Policy Number: ☐
    c. Other: ☐
    d. Company/Carrier: ☐
    e. Expiration Date: ☐

    _____
    _____
    _____
    (Specify)

NOTE: ALL appropriate and applicable permits, licenses and certificates required by the above activity(ies) from any local, state and/or federal agencies must be obtained separately from this notification.

CERTIFICATION

This registration form shall be signed by the highest ranking individual at the facility with overall responsibility for that facility (N.J.A.C. 7:14B-2.3 (a) 1).

"I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including fines and/or imprisonment."

Signature: _____

Name (print or type): Dinkerrai Desai

Title: Environmental Coordinator Date: 7/12/91

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
Trenton, N.J. 08625-0029

ATTN: BUST Program
(609) 984-3156

For State Use Only

Date Rec'd. ____
Auth. ____
Routing ____
UST NO. ____

STANDARD REPORTING FORM
for reporting activities at an UST facility:

____ General Facility Information Changes
✓ Closure (Abandonment or Removal)
____ Temporary Closure
____ Change in Service
____ Sale or Transfer
____ Substantial Modification
____ Financial Responsibility
____ Address Change Only

Check ONLY One Type of Activity – Complete Form For That Activity

(More than one tank can be listed per activity)

*** * * NOTE * * * ALL NEW tank installations at existing registered facilities must submit a Registration Questionnaire for the new tanks.**

Answer questions 1 through 5 and others as applicable.

1. Company name and address (as it appears on registration questionnaire): U.S. Army Fort Monmouth
DEH Bldg. #167
Fort Monmouth NJ 07703
ATTN Dinkerrai Desai

2. Facility name and location (if different from above): Bldg. 2567

3. Contact person for this activity: Dinkerrai Desai
Telephone Number: (908) 532-1475

4. The identification number of the affected tank as it appears in Question Number 12 on the Registration Questionnaire: 33

5. Registration Number (if known): UST - 0081515

6. For GENERAL FACILITY INFORMATION changes (address, telephone, contact person, etc. – supply NEW information only):

a. Facility name: ____
b. Facility location: ____
c. Owner's mailing address: ____
____ NJ ____
d. Block: ____ Lot: ____
e. Contact person (facility operator): ____
f. Contact telephone number: (____) ____ - ____
g. Other (Specify): ____

7. For CLOSURE (abandon...nt or removal – check all that apply):
   a. ☐ Abandonment

      Attach the necessary implementation schedule (3 copies) and all documentation needed for abandonment per N.J.A.C. 7:14B-9.1 (d).
   b. ☑ Removal

      Attach the necessary implementation schedule (3 copies).

8. For CHANGES IN HAZARDOUS SUBSTANCES STORED (check all that apply):
   a. ☐ Temporary Closure (12 month maximum time – see N.J.A.C. 7:14B-9.1(b)). Remove all hazardous substances; leave tank in place.
   b. ☐ Change in service from a regulated substance to a non-regulated substance. Tank must be cleaned and site assessment performed per N.J.A.C. 7:14B-9.1(e).
   c. ☐ Changes in service from one regulated hazardous substance to another regulated hazardous substance.

      Tank No. _____ Old _____ New _____
      Tank No. _____ Old _____ New _____
      Tank No. _____ Old _____ New _____
      (Attach additional sheets if more space is needed)

9. For TRANSFER OF OWNERSHIP:
   a. New Owner (operator) _____
   b. New Facility Name _____
      _____
      _____ NJ _____
      _____
      County
   c. Closing Attorney _____ Tele: (_____) _____ – _____

10. For SUBSTANTIAL MODIFICATIONS (to include any retrofitted activity – e.g. the addition of spill/overfill protecti monitoring systems, cathodic protection, etc.):
    a. Type of Modification _____
    b. * NOTE * Substantial modifications require a permit under N.J.A.C. 7:14B-10.

11. For changes in FINANCIAL RESPONSIBILITY to (check appropriate changes and attach copies of new information)
    a. Policy Type: ☐
    b. Policy Number: ☐
    c. Other: ☐
    d. Company/Carrier: ☐
    e. Expiration Date: ☐

    _____
    _____
    _____
    (Specify)

NOTE: ALL appropriate and applicable permits, licenses and certificates required by the above activity(ies) from an local, state and/or federal agencies must be obtained separately from this notification.

CERTIFICATION

This registration form shall be signed by the highest ranking individual at the facility with overall responsibility for tha facility (N.J.A.C. 7:14B-2.3 (a) 1).

"I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including fines and/or imprisonment."

Signature: _____

Name (print or type): Dinkerrai Desai

Title: Environmental Coordinator Date: 7/12/91

SRF-1/90

Underground Storage Tank
Removal / Abandonment
Implementation Schedule

Date: 7/12/91

Facility Name: U.S. Army, Fort Monmouth
Facility Location: Bldg. 2567
Fort Monmouth, Monmouth County NJ 07703

Owners Mailing Address: DEH Bldg. #167
Fort Monmouth, NJ 07703

Owners Name: U.S. Army

Contact Person: Dinkerrai Desai
Phone Number: (908) 532-1475

UST Number: 0081515

Tank ID Number(s)	Product Stored (Oil, Gas, etc.)	Tank Capacity (Gallons)	Site Assessment Required	Monitoring Well Required
33	#2 oil	1000	yes	no

Schedule

Activity	Start Date	Completion
Removal	10/9/91	10/11/91
Site Assessment	10/11/91	
Monitoring Well Installation	N/A	
Site Assessment Analytical Results	11/15/91	
Monitoring Well Analytical Results	N/A	
UST Site Assessment Summary		1/9/92

Underground Storage Tank
Removal / Abandonment
Implementation Schedule

Date: 7/12/91

Facility Name: U.S. Army, Fort Monmouth
Facility Location: Bldg. 2567
Fort Monmouth, Monmouth County NJ 07703

Owners Mailing Address: DEH Bldg. #167,
Fort Monmouth, NJ 07703

Owners Name: U.S. Army

Contact Person: Dinkerrai Desai
Phone Number: (908) 532-1475

UST Number: 0081515

Tank ID Number(s)	Product Stored (Oil, Gas, etc.)	Tank Capacity (Gallons)	Site Assessment Required	Monitoring Well Required
33	#2 oil	1000	yes	no

Schedule

Activity	Start Date	Completion
Removal	10/9/91	10/11/91
Site Assessment	10/11/91	
Monitoring Well Installation	N/A	
Site Assessment Analytical Results	11/15/91	
Monitoring Well Analytical Results	N/A	
UST Site Assessment Summary		1/9/92

Underground Storage Tank
Removal / Abandonment
Implementation Schedule

Date: 7/12/91

Facility Name: U.S. Army, Fort Monmouth
Facility Location: Bldg. 2567
Fort Monmouth, Monmouth County NJ 07703

Owners Mailing Address: DEH Bldg. #167
Fort Monmouth, NJ 07703

Owners Name: U.S. Army

Contact Person: Dinkerrai Desai
Phone Number: (908) 532-1475

UST Number: 0081515

Tank ID Number(s)	Product Stored (Oil, Gas, etc.)	Tank Capacity (Gallons)	Site Assessment Required	Monitoring Well Required
33	#2 oil	1000	yes	no

Schedule

Activity	Start Date	Completion
Removal	10/9/91	10/11/91
Site Assessment	10/11/91	
Monitoring Well Installation	N/A	
Site Assessment Analytical Results	11/15/91	
Monitoring Well Analytical Results	N/A	
UST Site Assessment Summary		1/9/92

APPENDIX B

NJDEPE UST ASSESSMENT SUMMARY FORMS

UST-014
2/91

FOR STATE USE ONLY
UST # _____
Date Rec'd _____
TMS # _____
Staff _____

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WATER RESOURCES
BUREAU OF UNDERGROUND STORAGE TANKS
TANK MANAGEMENT SECTION

CN 029, 401 EAST STATE STREET
TRENTON, N.J. 08625-0029

UNDERGROUND STORAGE TANK SITE ASSESSMENT SUMMARY

Under the provisions of the Underground Storage of Hazardous Substances Act in accordance with N.J.A.C. 7:14B

This Summary form shall be used by all owners and operators of Underground Storage Tank Systems (USTS) who have either reported a release and are subject to the site assessment requirements of N.J.A.C. 7:14B-8.2 or who have closed USTS pursuant to N.J.A.C. 7:14B-9.1 et seq. and are subject to the site assessment requirements of N.J.A.C. 7:14B-9.2 and 9.3.

INSTRUCTIONS:

- *Please print legibly or type.*
- *Fill in all applicable blanks. This form will require various attachments in order to complete the Summary. The technical guidance document, Interim Closure Requirements for UST's, explains the regulatory (and technical) requirements for closure and the Scope of Work, Investigation and Corrective Action Requirements for Discharges from Underground Storage Tanks and Piping Systems explains the regulatory (and technical) requirements for corrective action.*
- *Return one original of the form and all required attachments to the above address.*
- *Attach a scaled site diagram of the subject facility which shows the information specified in Item IV B of this form.*
- *Explain any "No" or "N/A" response on a separate sheet.*

Date of Submission 9/1/93

0081515-33
FACILITY REGISTRATION #

I. FACILITY NAME AND ADDRESS

U. S. ARMY FORT MONMOUTH
DEH BLDG. #167
FORT MONMOUTH, NJ 07703 County MONMOUTH
Telephone No. (908) 532-1475

OWNER'S NAME AND ADDRESS, if different from above

_____
_____
_____

Telephone No. _____

II. DISCHARGE REPORTING REQUIREMENTS

A. Was contamination found? ___Yes X No If Yes, Case No._____
(Note: All discharges must be reported to the Environmental Action Hotline (609) 292-7172)

B. The substance(s) discharged was(were) N/A

C. Have any vapor hazards been mitigated? ___Yes ___No X N/A

III. DECOMMISSIONING OF TANK SYSTEMS

Closure Approval No. N/A DHWM

The site assessment requirements associated with tank decommissioning are explained in the Technical Guidance Document, **Interim Closure Requirements for UST's**, Section V. A-D. Attach complete documentation of the methods used and the results obtained for each of the steps of tank decommissioning used. Please include a site map which shows the locations of all samples and borings, the location of all tanks and piping runs at the facility at the beginning of the tank closure operation and annotated to differentiate the status of all tanks and piping (e.g., removed, abandoned, temporarily closed, etc.). The same site map can be used to document other parts of the site assessment requirements, if it is properly and legibly annotated.

IV. SITE ASSESSMENT REQUIREMENTS

A. Excavated Soil

Any evidence of contamination in excavated soil will require that the soil be classified as either Hazardous Waste or Non-Hazardous Waste. Please include all required **documentation** of compliance with the requirements for handling contaminated **excavated** soil (if any was present) as explained in the technical guidance documents for closure and corrective action. Describe amount of soil removed, its classification, and disposal location.

B. Scaled Site Diagrams

1. Scaled site diagrams must be attached which include the following information:

   a. North arrow and scale
   b. The locations of the ground water monitoring wells
   c. Location and depth of each soil sample and boring
   d. All major surface and sub-surface structures and utilities
   e. Approximate property boundaries
   f. All existing or closed underground storage tank systems, including appurtenant piping
   g. A cross-sectional view indicating depth of tank, stratigraphy and location of water table
   h. Locations of surface water bodies

C. Soil samples and borings (check appropriate answer)

1. Were soil samples taken from the excavation as prescribed? X Yes ___No ___N/A

2. Were soil borings taken at the tank system closure site as prescribed? ___Yes ___No X N/A

3. Attach the analytical results in tabular form and include the following information about each sample:
   a. Customer sample number (keyed to the site map)
   b. The depth of the soil sample
   c. Soil boring logs
   d. Method detection limit of the method used
   e. QA/QC Information as required

D. Ground Water Monitoring

1. Number of ground water monitoring wells installed NONE

2. Attach the analytical results of the ground water samples in tabular form. Include the following information for each sample from each well:

   a. Site diagram number for each well installed
   b. Depth of ground water surface
   c. Depth of screened interval
   d. Method detection limit of the method used
   e. Well logs
   f. Well permit numbers
   g. QA/QC Information as required

V. SOIL CONTAMINATION

A. Was soil contamination found? ___ Yes X No
If "Yes", please answer Question B-E
If "No", please answer Question B

B. The highest soil contamination still remaining in the ground has been determined to be:
1. N/A ppb total BTEX, N/A ppb total non-targeted VOC
2. N/A ppb total B/N, N/A ppb total non-targeted B/N
3. N/A ppm TPHC
4. N/A ppb N/A (for non-petroleum substance)

C. Remediation of free product contaminated soils

1. All free product contaminated soil on the property boundaries and above the water table are believed to have been removed from the subsurface ___ Yes ___ No N/A
2. Free product contaminated soils are suspected to exist below the water table ___ Yes ___ No N/A
3. Free product contaminated soils are suspected to exist off the property boundaries. ___ Yes ___ No N/A

D. Was the vertical and horizontal extent of contamination determined? ___ Yes ___ No X N/A

E. Does soil contamination intersect ground water? ___ Yes ___ No X N/A

VI. GROUND WATER CONTAMINATION

A. Was ground water contamination found? ___ Yes X No
If "Yes", please answer Questions B-G.
If "No", please answer only Question B.

B. The highest ground water contamination at any 1 sampling location and at any 1 sampling event to date has been determined to be:

1. N/A ppb total BTEX, N/A ppb total non-targeted VOC
2. N/A ppb total B/N, N/A ppb total non-targeted B/N
3. N/A ppb total MTBE, N/A ppb total TBA
4. N/A ppb N/A (for non-petroleum substance)
5. greatest thickness of separate phase product found N/A
6. separate phase product has been delineated ___ Yes ___ No X N/A

C. Result(s) of well search

1. A well search (including a review of manual well records) indicates that private, municipal or commercial wells do exist within the distances specified in the Scope of Work. ___ Yes ___ No X N/A

2. The number of these wells identified is N/A

D. Proximity of wells and contaminant plume

1. The shallowest depth of any well noted in the well search which may be in the horizontal or vertical potential path(s) of the contaminant plume(s) is N/A feet below grade (consideration has been given for the effects of pumping, subsurface structures, etc. on the direction(s) of contaminant migration). This well is N/A feet from the source and its screening begins at a depth of N/A feet.

2. The shallowest depth to the top of the well screen for any well in the potential path of the plume(s) (as described in D1 above) is N/A feet below grade. This well is located N/A feet from the source.

3. The closest horizontal distance of a private, commercial or municipal well in the potential path of the plume (as determined in D1) is N/A feet from the source. This well is N/A feet deep and screening begins at a depth of N/A feet.

E. A plan for separate phase product recovery has been included. ___ Yes ___ No X N/A

F. A ground water contour map has been submitted which includes the ground water elevations for each well. ___ Yes ___ No X N/A

G. Delineation of contamination

1. The ground water contaminants have been delineated to MCLs or lower values at the property boundaries. ___ Yes ___ No N/A

2. The plume is suspected to continue off the property at concentrations greater than MCLs. ___ Yes ___ No N/A

3. Off property access (circle one): is being sought has been approved has been denied N/A

VII. **SITE ASSESSMENT CERTIFICATION** [preparer of site assessment plan - N.J.A.C. 7:14B-8.3(b) &9.5(a)3]

The person signing this certification as the "Qualified Ground Water Consultant" (as defined in N.J.A.C.7:14B-1.6) responsible for the design and implementation of the site assessment plan as specified in N.J.A.C. 7:14B-8.3(a) & 9.2(b)2, must supply the name of the certifying organization and certification number.

"I certify under penalty of law that the information provided in this document is true, accurate, and complete and was obtained by procedures in compliance with N.J.A.C. 7:14B-8 and 9. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type) DINKERRAI DESAI SIGNATURE [signature]

COMPANY NAME DEH - U. S. ARMY DATE 9/1/93
(Preparer of Site Assessment Plan)

CERTIFYING ORGANIZATION _____ CERTIFICATION NUMBER 2266

VIII. **TANK DECOMMISSIONING CERTIFICATION** [person performing tank decommissioning portion of closure plan - N.J.A.C. 7:14B-9.5(a)4]

"I certify under penalty of law that tank decommissioning activities were performed in compliance with N.J.A.C. 7:14B-9.2(b)3. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type) DINKERRAI DESAI SIGNATURE

COMPANY NAME DEH - U. S. ARMY DATE 9/1/93
(Performer of Tank Decommissioning)

IX. **CERTIFICATIONS BY THE RESPONSIBLE PARTY(IES) OF THE FACILITY**

A. The following certification shall be signed by the highest ranking individual with overall responsibility for that facility [N.J.A.C. 7:14B-2.3(c)1i].

"I certify under penalty of law that the information provided in this document is true, accurate, and complete . I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type) JAMES OTT P. E. SIGNATURE

COMPANY NAME DEH- U. S. ARMY DATE 9/1/93

B. The following certification shall be signed as follows (according to the requirements of N.J.A.C. 7:14B-2.3(C)2i]:

1. For a corporation, by a principal executive officer of at least the level of vice president.
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
3. For a municipality, State, Federal or other public agency by either the principal executive officer or ranking elected official.
4. In cases where the highest ranking corporate partnership, governmental officer or official at the facility as required in A above is the same person as the official required to certify in B, only the certification in A need to be made. In all other cases, the certifications of A and B shall be made.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type) _____ SIGNATURE _____

COMPANY NAME _____ DATE _____

WESTON
MANAGERS DESIGNERS/CONSULTANTS
RARITAN PLAZA I
4TH FLOOR, RARITAN CENTER
EDISON, NJ 08837-3616
908-417-5800 • FAX: 908-417-5801

ATTACHMENT I

NO/NA RESPONSE EXPLANATION

SAS QUESTION #	RESPONSE	EXPLANATION
IA.	No	No contaminants were identified in soil samples at concentrations exceeding proposed NJDEPE cleanup criteria.
IB.	N/A	Same as above.
IC.	N/A	Same as above.
III.	N/A	Closure of Tank 33 was conducted under verbal approval and on-site supervision of the NJDEPE Division of Hazardous Waste Management.
IV.C.2	N/A	No soil borings were proposed in the closure plan.
V.A	No	No contaminants were identified in soil samples at concentrations exceeding proposed NJDEPE cleanup criteria.
V.B.1-4	N/A	Same as above.
V.C.1-3	N/A	Same as above.
V.D	N/A	Same as above.
V.E	N/A	Same as above.
VI.A	No	No groundwater monitoring wells were installed as part of closure of Tank 33; therefore, no groundwater samples were collected.

WESTON
MANAGERS DESIGNERS/CONSULTANTS

ATTACHMENT I

NO/NA RESPONSE EXPLANATION

SAS QUESTION #	RESPONSE	EXPLANATION
VI.B.1-6	N/A	Same as above
VI.C.1-3	N/A	No release to groundwater has occurred from Tank 33; therefore, no well search was performed as part of the site assessment
VI.E	N/A	Same as above
VI.F	N/A	Same as above
VI.G.1-3	N/A	No groundwater contamination resulting from a release from Tank 33 has been identified

UST-014
2/91

FOR STATE USE ONLY
UST # _____
Date Rec'd _____
TMS # _____
Staff _____

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WATER RESOURCES
BUREAU OF UNDERGROUND STORAGE TANKS
TANK MANAGEMENT SECTION

CN 029, 401 EAST STATE STREET
TRENTON, N.J. 08625-0029

UNDERGROUND STORAGE TANK SITE ASSESSMENT SUMMARY

Under the provisions of the Underground Storage of Hazardous Substances Act in accordance with N.J.A.C. 7:14B

This Summary form shall be used by all owners and operators of Underground Storage Tank Systems (USTS) who have either reported a release and are subject to the site assessment requirements of N.J.A.C. 7:14B-8.2 or who have closed USTS pursuant to N.J.A.C. 7:14B-9.1 et seq. and are subject to the site assessment requirements of N.J.A.C. 7:14B-9.2 and 9.3.

INSTRUCTIONS:

- *Please print legibly or type.*
- *Fill in all applicable blanks. This form will require various attachments in order to complete the Summary. The technical guidance document, Interim Closure Requirements for UST's, explains the regulatory (and technical) requirements for closure and the Scope of Work, Investigation and Corrective Action Requirements for Discharges from Underground Storage Tanks and Piping Systems explains the regulatory (and technical) requirements for corrective action.*
- *Return one original of the form and all required attachments to the above address.*
- *Attach a scaled site diagram of the subject facility which shows the information specified in Item IV B of this form.*
- *Explain any "No" or "N/A" response on a separate sheet.*

Date of Submission 9/1/93

0081515-46
FACILITY REGISTRATION #

I. FACILITY NAME AND ADDRESS

U. S. ARMY FORT MONMOUTH
DEH BLDG. #167
FORT MONMOUTH, NJ 07703 County MONMOUTH
Telephone No. (908) 532-1475

OWNER'S NAME AND ADDRESS, if different from above

Telephone No. _____

II. DISCHARGE REPORTING REQUIREMENTS

A. Was contamination found? ___Yes _X_ No If Yes, Case No._____
(Note: All discharges must be reported to the Environmental Action Hotline (609) 292-7172)

B. The substance(s) discharged was(were) N/A

C. Have any vapor hazards been mitigated? ___Yes ___No _X_N/A

III. DECOMMISSIONING OF TANK SYSTEMS

Closure Approval No. N/A DHWM

The site assessment requirements associated with tank decommissioning are explained in the Technical Guidance Document, **Interim Closure Requirements for UST's**, Section V. A-D. Attach complete documentation of the methods used and the results obtained for each of the steps of tank decommissioning used. Please include a site map which shows the locations of all samples and borings, the location of all tanks and piping runs at the facility at the beginning of the tank closure operation and annotated to differentiate the status of all tanks and piping (e.g., removed, abandoned, temporarily closed, etc.). The same site map can be used to document other parts of the site assessment requirements, if it is properly and legibly annotated.

IV. SITE ASSESSMENT REQUIREMENTS

A. Excavated Soil

Any evidence of contamination in excavated soil will require that the soil be classified as either Hazardous Waste or Non-Hazardous Waste. Please include all required **documentation** of compliance with the requirements for handling contaminated excavated soil (if any was present) as explained in the technical guidance documents for closure and corrective action. Describe amount of soil removed, its classification, and disposal location.

B. Scaled Site Diagrams

1. Scaled site diagrams must be attached which include the following information:

   a. North arrow and scale
   b. The locations of the ground water monitoring wells
   c. Location and depth of each soil sample and boring
   d. All major surface and sub-surface structures and utilities
   e. Approximate property boundaries
   f. All existing or closed underground storage tank systems, including appurtenant piping
   g. A cross-sectional view indicating depth of tank, stratigraphy and location of water table
   h. Locations of surface water bodies

C. Soil samples and borings (check appropriate answer)

1. Were soil samples taken from the excavation as prescribed? ___Yes _X_ No ___N/A

2. Were soil borings taken at the tank system closure site as prescribed? ___Yes ___No _X_N/A

3. Attach the analytical results in tabular form and include the following information about each sample:
   a. Customer sample number (keyed to the site map)
   b. The depth of the soil sample
   c. Soil boring logs
   d. Method detection limit of the method used
   e. QA/QC Information as required

D. Ground Water Monitoring

1. Number of ground water monitoring wells installed NONE

2. Attach the analytical results of the ground water samples in tabular form. Include the following information for each sample from each well:

   a. Site diagram number for each well installed
   b. Depth of ground water surface
   c. Depth of screened interval
   d. Method detection limit of the method used
   e. Well logs
   f. Well permit numbers
   g. QA/QC Information as required

V. SOIL CONTAMINATION

A. Was soil contamination found? ___ Yes X No
If "Yes", please answer Question B-E
If "No", please answer Question B

B. The highest soil contamination still remaining in the ground has been determined to be:
1. N/A ppb total BTEX, N/A ppb total non-targeted VOC
2. N/A ppb total B/N, N/A ppb total non-targeted B/N
3. N/A ppm TPHC
4. N/A ppb N/A (for non-petroleum substance)

C. Remediation of free product contaminated soils

1. All free product contaminated soil on the property boundaries and above the water table are believed to have been removed from the subsurface ___ Yes ___ No N/A
2. Free product contaminated soils are suspected to exist below the water table ___ Yes ___ No N/A
3. Free product contaminated soils are suspected to exist off the property boundaries. ___ Yes ___ No N/A

D. Was the vertical and horizontal extent of contamination determined? ___ Yes ___ No X N/A

E. Does soil contamination intersect ground water? ___ Yes ___ No X N/A

VI. GROUND WATER CONTAMINATION

A. Was ground water contamination found? ___ Yes X No
If "Yes", please answer Questions B-G.
If "No", please answer only Question B.

B. The highest ground water contamination at any 1 sampling location and at any 1 sampling event to date has been determined to be:

1. N/A ppb total BTEX, N/A ppb total non-targeted VOC
2. N/A ppb total B/N, N/A ppb total non-targeted B/N
3. N/A ppb total MTBE, N/A ppb total TBA
4. N/A ppb N/A (for non-petroleum substance)
5. greatest thickness of separate phase product found N/A
6. separate phase product has been delineated ___ Yes ___ No X N/A

C. Result(s) of well search

1. A well search (including a review of manual well records) indicates that private, municipal or commercial wells do exist within the distances specified in the Scope of Work. ___ Yes ___ No X N/A

2. The number of these wells identified is N/A

D. Proximity of wells and contaminant plume

1. The shallowest depth of any well noted in the well search which may be in the horizontal or vertical potential path(s) of the contaminant plume(s) is N/A feet below grade (consideration has been given for the effects of pumping, subsurface structures, etc. on the direction(s) of contaminant migration). This well is N/A feet from the source and its screening begins at a depth of N/A feet.

2. The shallowest depth to the top of the well screen for any well in the potential path of the plume(s) (as described in D1 above) is N/A feet below grade. This well is located N/A feet from the source.

3. The closest horizontal distance of a private, commercial or municipal well in the potential path of the plume (as determined in D1) is N/A feet from the source. This well is N/A feet deep and screening begins at a depth of N/A feet.

E. A plan for separate phase product recovery has been included. ___ Yes ___ No X N/A

F. A ground water contour map has been submitted which includes the ground water elevations for each well. ___ Yes ___ No X N/A

G. Delineation of contamination

1. The ground water contaminants have been delineated to MCLs or lower values at the property boundaries. ___ Yes ___ No N/A

2. The plume is suspected to continue off the property at concentrations greater than MCLs. ___ Yes ___ No N/A

3. Off property access (circle one): is being sought has been approved has been denied N/A

VII. **SITE ASSESSMENT CERTIFICATION** [preparer of site assessment plan - N.J.A.C. 7:14B-8.3(b) &9.5(a)3]

The person signing this certification as the "Qualified Ground Water Consultant" (as defined in N.J.A.C.7:14B-1.6) responsible for the design and implementation of the site assessment plan as specified in N.J.A.C. 7:14B-8.3(a) & 9.2(b)2, must supply the name of the certifying organization and certification number.

"I certify under penalty of law that the information provided in this document is true, accurate, and complete and was obtained by procedures in compliance with N.J.A.C. 7:14B-8 and 9. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type) DINKERRAI DESAI SIGNATURE

COMPANY NAME DEH - U. S. ARMY DATE 9/1/93
(Preparer of Site Assessment Plan)

CERTIFYING ORGANIZATION CERTIFICATION NUMBER 2266

VIII. **TANK DECOMMISSIONING CERTIFICATION** [person performing tank decommissioning portion of closure plan - N.J.A.C. 7:14B-9.5(a)4]

"I certify under penalty of law that tank decommissioning activities were performed in compliance with N.J.A.C. 7:14B-9.2(b)3. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type) DINKERRAI DESAI SIGNATURE

COMPANY NAME DEH - U. S. ARMY DATE 9/1/93
(Performer of Tank Decommissioning)

IX. **CERTIFICATIONS BY THE RESPONSIBLE PARTY(IES) OF THE FACILITY**

A. The following certification shall be signed by the highest ranking individual with overall responsibility for that facility [N.J.A.C. 7:14B-2.3(c)1i].

"I certify under penalty of law that the information provided in this document is true, accurate, and complete . I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type) JAMES OTT P.E SIGNATURE

COMPANY NAME DEH- U. S. ARMY DATE 9/1/93

B. The following certification shall be signed as follows (according to the requirements of N.J.A.C. 7:14B-2.3(C)2i):

1. For a corporation, by a principal executive officer of at least the level of vice president.
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
3. For a municipality, State, Federal or other public agency by either the principal executive officer or ranking elected official.
4. In cases where the highest ranking corporate partnership, governmental officer or official at the facility as required in A above is the same person as the official required to certify in B, only the certification in A need to be made. In all other cases, the certifications of A and B shall be made.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type) _____ SIGNATURE _____

COMPANY NAME _____ DATE _____

WESTON
MANAGERS DESIGNERS/CONSULTANTS
RARITAN PLAZA I
4TH FLOOR, RARITAN CENTER
EDISON, NJ 08837-3616
908-417-5800 • FAX: 908-417-5801

ATTACHMENT 1

NO/NA RESPONSE EXPLANATION

SAS QUESTION #	RESPONSE	EXPLANATION
IA.	No	No contaminants were identified in soil samples at concentrations exceeding proposed NJDEPE cleanup criteria.
IB.	N/A	Same as above.
IC.	N/A	Same as above.
III.	N/A	Closure of Tank 46 was conducted under verbal approval and on-site supervision of the NJDEPE Division of Hazardous Waste Management.
IV.C.1	No	Sampling parameters were reduced from PP+40 to TPHC (and BN+15 if TPHC > 100 mg/kg) based on the conclusion that the tank was never in use. This approach was verbally approved by the NJDEPE representative present during closure.
IV.C.2	N/A	No soil borings were proposed in the closure plan.
V.A	No	No contaminants were identified in soil samples at concentrations exceeding proposed NJDEPE cleanup criteria.
V.B.1-4	N/A	Same as above.
V.C.1-3	N/A	Same as above.
V.D	N/A	Same as above.
V.E	N/A	Same as above.
VI.A	No	No groundwater monitoring wells were installed as part of closure of Tank 46; therefore, no groundwater samples were collected.

ATTACHMENT 1

NO/NA RESPONSE EXPLANATION

SAS QUESTION #	RESPONSE	EXPLANATION
VI.B.1-6	N/A	Same as above.
VI.C.1-3	N/A	No release to groundwater has occurred from Tank 46; therefore, no well search was performed as part of the site assessment.
VI.E	N/A	Same as above.
VI.F	N/A	Same as above.
VI.G.1-3	N/A	No groundwater contamination resulting from a release from Tank 46 has been identified.

APPENDIX B

UST Closure and Site Assessment Report, Building 2567, UST Nos. 42, 43, 44, and 45, Roy F. Weston, Inc., January 1995

UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT BUILDING 2567 NJDEP FACILITY UST NO. 081515 UST NOS. 42, 43, 44 AND 45 TMS NO. C-92-2950 SPILL CASE NOS. 89-12-12-1442 AND 91-8-27-1414

Volume 1 of 2

January 1995

Work Order No.: 03886-088-001

Prepared For:

UNITED STATES ARMY
Directorate of Public Works
Building 167
Fort Monmouth, New Jersey 07703

Prepared by:

ROY F. WESTON, INC.
Raritan Plaza I
4th Floor
Raritan Center
Edison, New Jersey 08837

TABLE OF CONTENTS

VOLUME 1

Section	Title	Page
	EXECUTIVE SUMMARY	**ES-1**
1.0	**UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES**	**1-1**
1.1	Overview	1-1
1.2	Site Description and UST History	1-2
1.3	Geological/Hydrogeological Setting	1-5
1.3.1	Geological Setting	1-5
1.3.2	Hydrogeological Setting	1-6
1.3.3	Offsite Groundwater Usage	1-8
1.4	Health and Safety	1-11
1.5	Removal of Underground Storage Tank	1-11
1.5.1	General Procedures	1-11
1.5.2	Underground Storage Tank Excavation	1-12
1.6	Underground Storage Tank Transportation and Disposal	1-13
1.7	Management of Excavated Soils	1-13
2.0	**SITE INVESTIGATION ACTIVITIES**	**2-1**
2.1	Overview	2-1
2.2	Field Screening/Monitoring	2-2
2.3	Soil and Groundwater Sampling	2-2
3.0	**CONCLUSIONS AND RECOMMENDATIONS**	**3-1**
3.1	Soil and Groundwater Sampling Results	3-1
3.2	Conclusions and Recommendations	3-16

TABLE OF CONTENTS (CONTINUED)

LIST OF APPENDICES

VOLUME 1 (CONTINUED)

Appendix A - NJDEP - BUST Closure Approval
Appendix B - NJDEP UST Site Assessment Summary Form
Appendix C - Monitoring Well Information
Appendix D - Well Search Information
Appendix E - Hazardous Waste Manifests
Appendix F - Tank Reclamation Certificates
Appendix G - Analytical Data Package

VOLUME 2

Appendix G (Continued) - Analytical Data Package

LIST OF TABLES

Table	Title	Page
1-1	Water Level Elevations for Monitoring Well, MW-1, MW-2, MW-3 and MW-4 located at Building 2567	1-9
2-1	Summary of Post-Excavation Soil Sampling	2-8
2-2	Summary of Groundwater Sampling Activities	2-13
3-1	Summary of Analytical Results for Soils	3-2
3-2	Summary of Analytical Results for Groundwater	3-7
3-3	Analytical Methods/Quality Assurance Summary Table	3-14

LIST OF FIGURES

Figure	Title	Page
1-1	Facility Location Map	1-3
1-2	Site Map	1-4
1-3	Subsurface Profile	1-7
2-1	Post-Excavation Soil Sampling Locations	2-4
2-2	Well Location Map	2-5
2-3	Groundwater Contour Map (Data Collected 12/10/91)	2-6
2-4	Groundwater Contour Map (Data Collected 1/10/94)	2-7

EXECUTIVE SUMMARY

On 12 December 1989, the Directorate of Public Works (DPW) notified the New Jersey Department of Environmental Protection and Energy (NJDEP) of a suspected fuel leak at the Charles Wood gas station, Building 2567. Spill Case No. 89-12-12-1442 was assigned by the NJDEP. The U.S. Army-DPW investigated the suspected release by performing a tightness test of the premium gas line which was suspected of leaking. On 30 January 1990, this line passed the tightness test.

On 15 and 16 January 1991, routine tightness tests were performed of three underground storage tanks (USTs), identified as Nos. 42, 43, and 44. UST Nos. 42 and 44 passed the tank system tightness test, however UST No. 43 failed. In response to the failed tightness test, the DPW issued a purchase order for the removal of USTs of Building 2567 gas station and notified the NJDEP of the failed tightness test. NJDEP issued Spill Case No. 91-8-27-1414.

In response to the suspected discharges, four groundwater monitor wells were installed at the Building 2567 gas station on 9 October 1991. These wells were sampled on 10 December 1991 and sample results indicated lead and all volatile organic compounds were less than the NJDEP's Ground Water Quality Criteria, except for benzene, 1,2-dichloroethene, total xylene, and methylene chloride.

The groundwater monitor wells were resampled on 26 October 1992, 21 April 1993, 3 February and 31 March 1994. In general, the detected concentrations of volatile organic compounds declined during the subsequent samplings. However, lead was detected in groundwater samples at greater levels with each sampling. Results from 31 March 1994 indicated that all detected volatile organic compounds were less than the NJDEP's Class IIA Ground Water Quality Criteria, except for benzene, total xylene, and methylene chloride. Lead was detected only in monitor well MW-3 above the NJDEP's Class II A Ground Water Quality Criteria.

Concurrent with the groundwater sampling investigation program, the DPW pursued the closure of UST Nos. 42 through 45. On 26 June 1992, a UST Decommissioning/Closure Plan was submitted to the NJDEP, followed by submittal of an UST Closure Plan Approval Application on 5 August 1992. The NJDEP issued Closure Approval, TMS No. C-92-2950 on 14 September 1992.

During 2 to 5 February 1993, the four USTs were closed at U.S. Army Fort Monmouth, in Fort Monmouth, New Jersey. UST Nos. 42 to 45 were located adjacent to Building 2567 in the Charles Wood area of Fort Monmouth. UST Nos. 42 to 44 were single walled steel, 10,000-gallon capacity, unleaded gasoline tanks. UST No. 45 was a single walled steel, 6,000-gallon capacity, leaded gasoline tank. UST Nos. 42 to 45 were located adjacent to each other. Cycle Construction Incorporated (CCI) performed the tank closure. The tanks were inspected

following removal for cracks, corrosion holes and puncture holes for indications of historical leakage from the tanks. UST Nos. 42 to 45 were found to be in good condition with no corrosion holes.

Soils surrounding the tanks were screened visually and with air monitoring instruments for evidence of contamination. Based on visual observations and screening approximately 936 cubic yards of soil were removed from the area surrounding the USTs and pump island. In both areas excavation was continued until either no evidence of contamination was found, based on field observations, or until further removal of soil would have endangered the integrity of structures, and roadways adjacent to the areas of investigation. Despite the groundwater levels in the monitoring wells, groundwater was not encountered until the excavation reached 7 feet BGS. The excavations were therefore extended to 7 feet BGS when necessary. When the excavation was completed the area was backfilled with clean soil and the surface paved.

Post excavation soil sample were collected on 2 February 1993 and 24 February 1993. Soil samples were analyzed for total petroleum hydrocarbons (TPHC), volatile organic compounds, and lead. Analytical results were compared to both the Impact to Ground Water (ITGW) and Residential Direct Contact (RDC) Soil Cleanup Criteria established by NJDEP. TPHC and lead were detected in post-excavation samples, however, the results were below both the ITGW and RDC soil cleanup criteria. Thirteen of 23 samples analyzed for volatile organics exceeded the ITGW and/or RDC soil cleanup criteria for xylenes, benzene, or ethylbenzene.

Based on the reduction in groundwater contaminant levels, future impact on the environment is not anticipated. The reduction in groundwater contaminant levels is attributable to the following:

- The contaminant sources, tank Nos. 42 to 45, 936 cubic yards of soil and the pump island piping were successfully removed. The analytical testing of soil had indicated that limited residual contamination exists in the soil below the surface.

- The site was backfilled with clean material and paved. The asphalt pavement caps the site and precludes the infiltration of precipitation and other surface water to the ground, which reduces the potential for residual soil contaminants leaching from the soil into the groundwater.

On 23 September 1994 one additional monitoring well (MW-5) was installed to determine if contaminants were present downgradient from the site. Well MW-5 is located southeast of the site on the eastern side of Hope Road. The well was placed downgradient of the site based on previous groundwater level measurements. Well MW-5 will be used for future sampling events and to confirm groundwater flow patterns on the site. An addendum to this report will be provided to the NJDEP when groundwater sample analysis is complete.

SECTION 1.0

UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

On 5 February 1993, four underground storage tanks (USTs), UST Nos. 42 to 45, were closed at Building 2567 at U.S. Army Fort Monmouth, New Jersey. UST Nos. 42 to 44 were single wall steel, 10,000-gallon capacity, unleaded gasoline tanks. UST. No. 45 was a single wall steel, 6,000-gallon capacity, leaded fuel tank. UST Nos. 42 to 45 were located immediately adjacent to each other. This report presents the results of the DPW's implementation of the UST Decommissioning/Closure Plan submitted to the NJDEP-DHWM on 26 June 1992 and approved 14 September 1992 (Closure approval No. C-92-2950).

All activities associated with the decommissioning of UST Nos. 42 to 45 complied with all applicable Federal, State and Local laws and ordinances in effect at the date of decommissioning. These laws included but were not limited to: N.J.A.C. 7:14B-1 et seq., N.J.A.C. 5:23-1 et seq., N.J.A.C. 7:26E-1 et seq. and Occupational Safety and Health Administration (OSHA) 29 CFR 1910.146 & 29 CFR 1910.120. All permits including but not limited to the NJDEP-approved Decommissioning/Closure Plan were posted onsite for inspection. Cycle Construction, Inc. (CCI), the contractors that conducted the decommissioning activities, are currently registered and certified by the NJDEP for performing UST closure activities.

The NJDEP Closure Approval and correspondence with the NJDEP have been included in Appendix A. The UST Site Assessment Summary Form for UST Nos. 42 to 45 has been included in Appendix B. The UST Site Assessment Summary Form has been signed and sealed by Mr. James Ott, Acting Director of DPW, U.S. Army Fort Monmouth.

This UST Closure and Site Investigation Report was prepared by Roy F. Weston Inc. (WESTON®), to assist the United State Army Directorate of Public Works (DPW) in complying with the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST) regulations.

Section 1 of this UST Closure and Site Investigation Report provides a summary of the tank decommissioning activities. Section 2 of this report describes the site investigation activities. Conclusions and recommendations, including the results of the soil sampling investigation, are presented in the final section of this report.

The applicable NJDEP-BUST regulations at the date of closure were the "Technical Requirements for Site Remediation" (N.J.A.C. 7:26E-1 et seq., dated May 1992).

1.2 SITE DESCRIPTION AND UST HISTORY

Building 2567 is located off Laboratory Road in the Charles Wood area of U.S. Army, Fort Monmouth. A facility location map is provided in Figure 1-1. Building 2567 is used as the installation gas station and is situated on level ground. The gasoline dispenser area was located approximately 50 feet west of the UST field. A pipe chase approximately 60 feet in length connected the dispenser area to the UST field. Figure 1-2 provides a site map of the former UST location and dispenser area.

On 12 December 1989, the Directorate of Public Works (DPW) notified the New Jersey Department of Environmental Protection and Energy (NJDEP) of a fuel leak at the Charles Wood gas station, Building 2567 (Case No. 89-12-12-1442).

On 30 January 1990, a tightness test was conducted on the premium gasoline line by Herbert Lutz and Company located in Linden, New Jersey. The line tested tight.

On 15 and 16 January 1991, three underground storage tanks (USTs) identified by Nos. 42, 43, 44 and 45 were tightness tested by Tank Test Inc. (TTI). UST Nos. 42 and 44 passed the tank system tightness test, although UST No. 43 failed.

On 1 August 1991, a purchase order to obtain permits for the removal of USTs at Buildings 2567, 8003, 8005 and 8006 was sent to the NJDEP by E-Systems Inc./Serv-Air (SAI).

On 27 August 1991, the NJDEP was notified of the UST which failed the tank system tightness test on 15 and 16 January 1991 (Case No. 91-8-27-1414). In response, the UST was placed out of service and the closure, remediation and construction of a new facility at that location was planned and coordinated by the DPW.

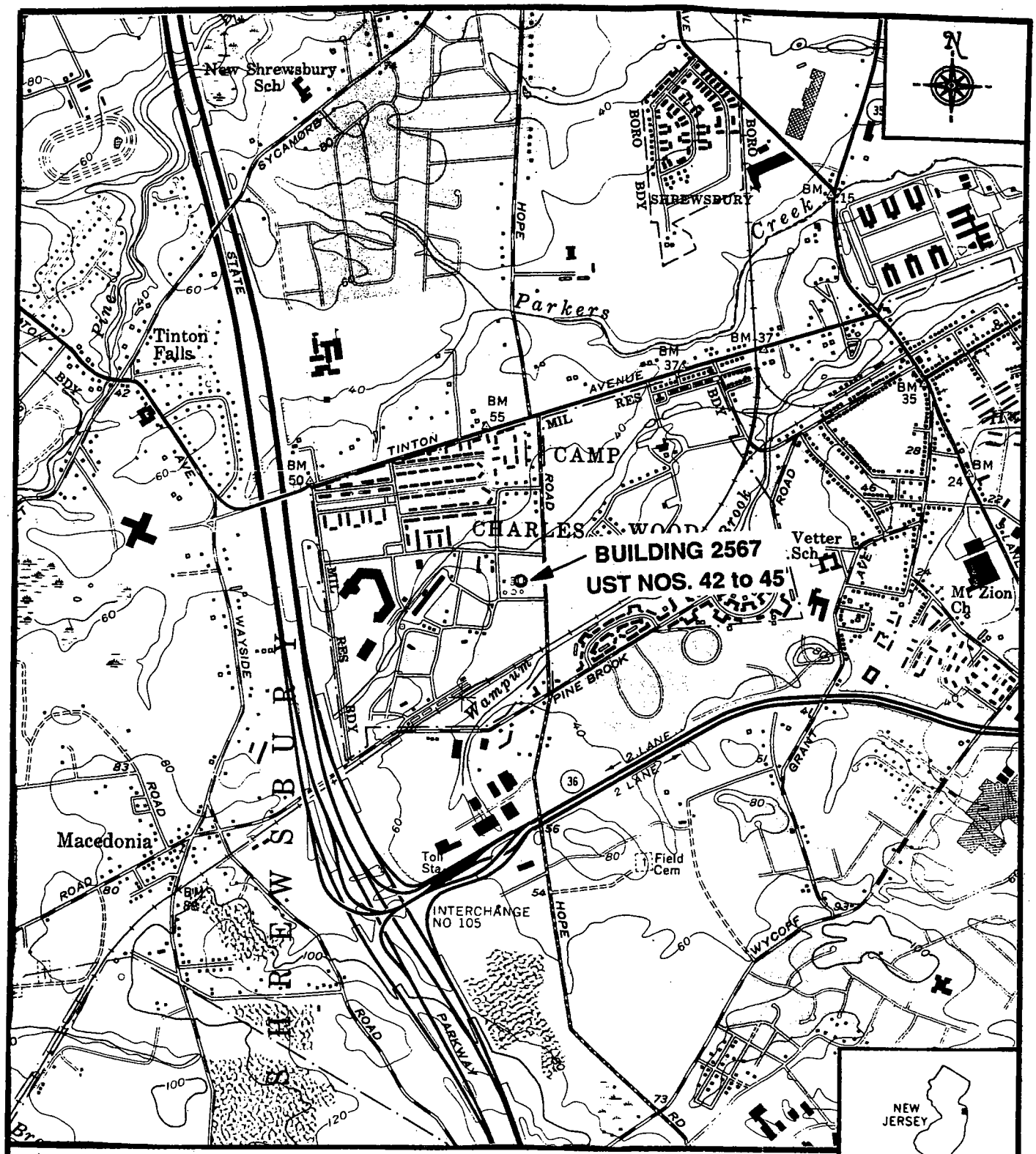
On 26 June 1992, a UST Decommissioning/Closure Plan was submitted to NJDEP.

On 5 August 1992, a UST Closure Plan Approval Application was submitted to NJDEP. The state responded on 14 September 1992 with a Closure Approval (TMS No. C-92-2950).

On 29 October 1992, a pre-construction conference was conducted between CCI and DPW.

On 24 November 1992, DPW sent a correspondence to NJDEP requesting a one year extension for the existing closure permits.

Between 2 and 5 February 1993, four USTs were closed at U.S. Army Fort Monmouth, in Fort Monmouth, New Jersey. UST Nos. 42 to 45 were located adjacent to Building 2567 in the Charles Wood area of Fort Monmouth. UST Nos. 42 to 44 were single walled steel, 10,000-



REFERENCE: U.S.G.S. QUADRANGLE LONG BRANCH, NJ: PHOTOREVISED 1981
CONTOUR INTERVAL 20 FEET SCALE 1 INCH = 2000 FEET

UST LATITUDE: N 40 Deg. 17 Min. 44 Sec.
UST LONGITUDE: W 74 Deg. 4 Min. 46 Sec.

WESTON
MANAGERS DESIGNERS/CONSULTANTS

FIGURE 1-1
FACILITY LOCATION MAP
U.S. ARMY - DIRECTORATE OF PUBLIC WORKS
FORT MONMOUTH, NEW JERSEY

COS-83PC.DRW

gallon capacity, unleaded gasoline tanks. UST No. 45 was a single walled steel, 6,000-gallon capacity, leaded gasoline tank. UST Nos. 42 to 45 were located adjacent to each other. CCI performed the tank closure.

1.3 GEOLOGICAL/HYDROGEOLOGICAL SETTING

The following is a description of the geological/hydrogeological setting of the area surrounding Building 2567. Included is a description of the regional geology of the area surrounding Fort Monmouth as well as descriptions of the local geology and hydrogeology of the Charles Wood area.

1.3.1 Geological Setting

Regional Geology

Monmouth County lies within the New Jersey Section of the Atlantic Coastal Plain physiographic province. The Main Post, Charles Wood, and the Evans areas are located in what may be referred to as the Outer Coastal Plain subprovince, or the Outer Lowlands.

In general, New Jersey, Coastal Plain formations consist of a seaward-dipping wedge of unconsolidated deposits of clay, silt, sand, and gravel. These formations typically strike northeast-southwest with a dip ranging from 10 to 60 feet per mile and were deposited on Precambrian and lower Paleozoic rocks (Zapecza, 1989). These sediments, predominantly derived from deltaic, shallow marine, and continental shelf environments, date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

The formations record several major transgressive/regressive cycles and contain units which are generally thicker to the southeast and reflect a deeper water environment. Over 20 regional geologic units are present within the sediments of the Coastal Plain. Regressive, upward-coarsening deposits are usually aquifers (e.g., Englishtown and Kirkwood Formations, and the Cohansey Sand) while the transgressive deposits act as confining units (e.g., the Merchantville, Marshalltown, and Navesink Formations). The individual thicknesses for these units vary greatly (i.e., from several feet to several hundred feet). The Coastal Plain deposits thicken to the southeast from the Fall Line to greater than 6,500 feet in Cape May County (Brown and Zapecza, 1990).

Local Geology

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Charles wood area. The Red Bank sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member (Shrewsbury) of the Red Bank sand is a yellowish-gray to reddish-brown clayey, medium-to-course-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski). The lower member (Sandy Hook) is a dark grey to black, medium-to-fine grained sand with abundant clay,mica, and glauconite.

The Tinton sand conformably overlies the Red Bank Sand and ranges from a clayey, medium-to-very coarse grained feldspathic quartz and glauconite sand to a glauconitic coarse sand. The color varies from dark yellowish-orange or light brown to moderate brown and from light olive to grayish olive. Glauconite may constitute 60 to 80 percent of the sand fraction in the upper part of the unit (Minard, 1969). The upper part of the Tinton is often highly oxidized and iron-oxide encrusted (Minard).

Over the last 80 years, the natural topography of Fort Monmouth has been altered by excavation and filling activities by the military. Topographic elevations for the Charles Wood area range from five feet above mean sea level (MSL) to 31 feet above MSL.

A Subsurface Profile of the USTs located at Building 2567 is provided in Figure 1-3.

1.3.2 Hydrogeological Setting

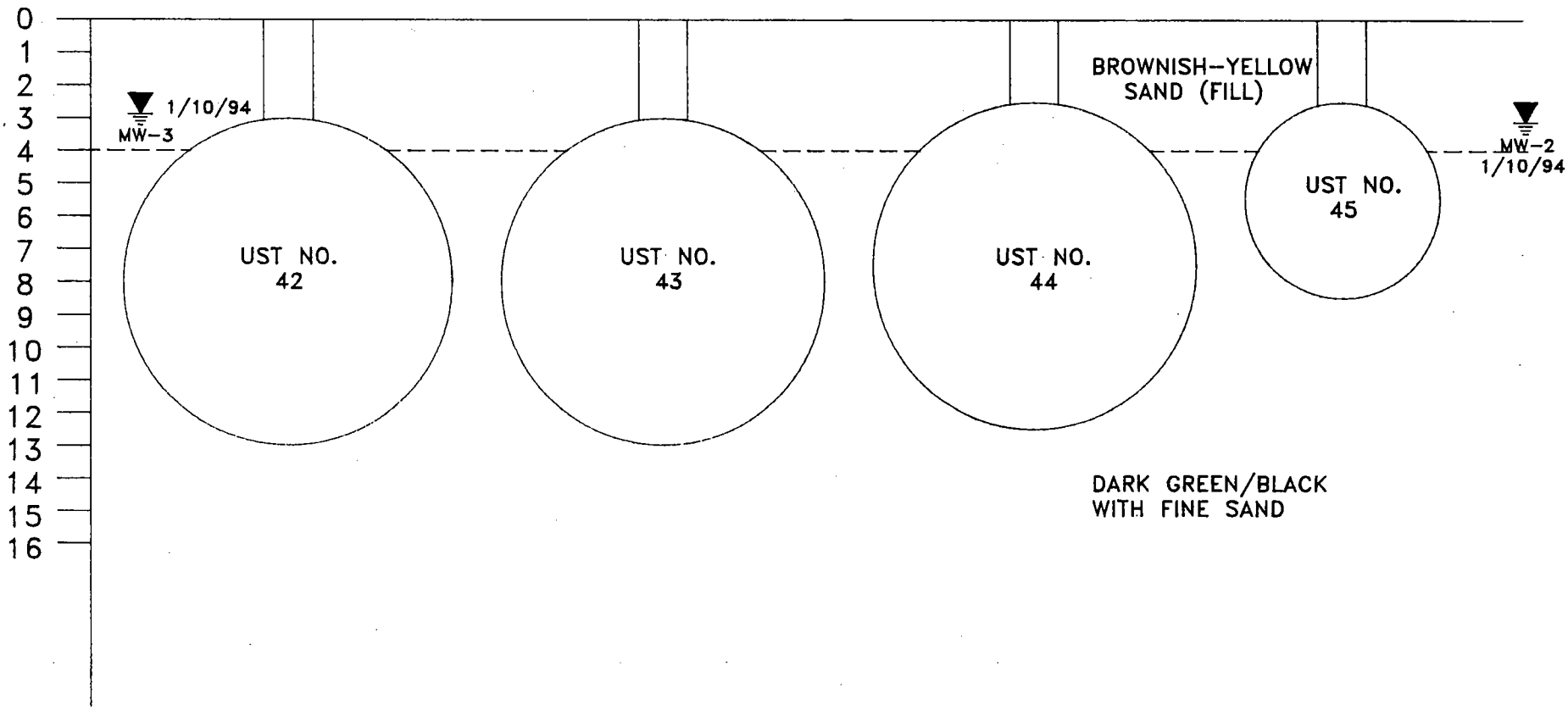
Hydrogeology

The water table aquifer at the Charles Wood area is identified as part of the "composite confining units", or minor aquifers. The minor aquifers include the Navesink formation, Red Bank Sand, Tinton Sand, Hornerstown Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation, and the basal clay of the Kirkwood Formation.

Based on records from wells drilled at the Charles Wood area, ground water is typically encountered at depths of two to nine feet below ground surface (BGS). According to Jablonski, wells drilled in the Red Bank and Tinton Sands may produce from 2 to 25 gallons per minute (gpm). Some well owners have reported acidic water that requires treatment to remove iron.

Shallow groundwater is locally influenced within the Charles Wood area by the following factors:

- tidal influence (based on proximity to the Atlantic Ocean, rivers and tributaries),
- topography,



0' 5'
SCALE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

PROJECT NAME:
UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT
BUILDING 2567 – UST NOS. 42–45
FORT MONMOUTH, NEW JERSEY

CLIENT NAME: U.S. ARMY – FORT MONMOUTH DIRECTORATE OF PUBLIC WORKS

SUBSURFACE PROFILE

DATE: 06/29/94

FIGURE #: 1 – 3

EVISION #: 0000 DATE: 5/19/94
LE NAME: B2567X.DWG DRAWN BY: B. MAC

- nature of the fill material within the Main Post area,
- presence of clay and silt lenses in the natural overburden deposits, and
- local groundwater recharge areas (i.e. stream, lakes).

Due to the fluvial nature of the overburden deposits (i.e. sand and clay lenses), shallow groundwater flow direction is best determined on a case-by-case basis. This is consistent with lithologies observed in borings installed within the Charles Wood area, which primarily consisted of fine-to-medium grained sands, with occasional lenses or laminations of silt and/or clay.

On 9 October 1991, four monitoring wells were placed in the area surrounding UST Nos. 42 to 45. The monitoring well permit, monitoring well records, and Form B for each well are provided in Appendix C. A fifth monitoring well (MW-5) was installed downgradient, southeast of the site, on 23 September 1994. Well MW-5 had not been surveyed or sampled when this report was completed. Information provided by the well will be included in future submittals. The monitoring well permit and well records are included in Appendix C.

Building 2567 is less than 1/2 mile north of Mill Brook, the nearest water body. The groundwater flow in the area of Building 2567 has been determined to be in a southeastern direction. A table of water level elevations collected from the four monitoring wells located in the area of Building 2567 is provided in Table 1-1. The Atlantic Ocean is located approximately 15 miles east of the site.

1.3.3 Offsite Groundwater Usage

In compliance with the NJDEP regulations, WESTON conducted a well search to identify all irrigation, monitoring, domestic, industrial and public supply wells within one half mile of U.S. Army Fort Monmouth, Charles Wood area. The file search produced records for 68 wells. The well search summary table includes the following information on surrounding wells: well identification number; well owner; well address; total depth (feet BGS); casing length (feet); static water level elevation (feet BGS); use code; and NJDEP permit number. In addition, a summary table of all U.S. Army wells located at Fort Monmouth is provided which includes the following information: well number; NJDEP permit number; New Jersey State Plane Coordinates; casing elevation and; elevation of the ground surface; and well records for the nearest identified offsite well have been included, if available. This information is included in Appendix D.

A review of the well records indicated that the majority of the wells within the area of concern are used for monitoring purposes. There are 52 monitoring wells. A domestic well (Permit Number 29-16207), owned by Joseph Stella is the closest to the site in the downgradient flow direction. The well is located at 144 Grant Avenue, approximately 6,500 feet southeast of the site.

TABLE 1-1

WATER LEVEL ELEVATIONS FOR MONITORING WELLS MW-1, MW-2, MW-3 AND MW-4 LOCATED AT BUILDING 2567

Monitoring Well Permit Number	Date	Time of Collection	Ground Surface Elevation (feet)	Depth to Water (feet)	Groundwater Surface Elevation (feet)
29-26925 (MW-1)	12/10/91	11:05 am	33.93	4.45	29.48
29-26926 (MW-2)	12/10/91	10:55 am	35.26	3.65	31.61
29-26927 (MW-3)	12/10/91	11:00 am	33.88	4.25	29.63
29-26928 (MW-4)	12/10/91	10:50 am	33.51	2.20	31.31

Monitoring Well Permit Number	Date	Time of Collection	Ground Surface Elevation (feet)	Depth to Water (feet)	Groundwater Surface Elevation (feet)
29-26925 (MW-1)	10/26/92	3:55 pm	33.93	5.17	28.76
29-26926 (MW-2)	10/26/92	4:05 pm	35.26	3.16	32.10
29-26927 (MW-3)	10/26/92	4:10 pm	33.88	4.52	29.36
29-26928 (MW-4)	10/26/92	4:13 pm	33.51	4.38	29.13

Monitoring Well Permit Number	Date	Time of Collection	Ground Surface Elevation (feet)	Depth to Water (feet)	Groundwater Surface Elevation (feet)
29-26925 (MW-1)	1/28/93	9:10 to 9:40 am	33.93	4.05	29.88
29-26926 (MW-2)	1/29/93	9:10 to 9:40 am	35.26	3.65	31.61
29-26927 (MW-3)	1/29/93	9:10 to 9:40 am	33.88	4.15	29.73
29-26928 (MW-4)	1/29/93	9:10 to 9:40 am	33.51	2.50	31.01

TABLE 1-1 (CONTINUED)

WATER LEVEL ELEVATIONS FOR MONITORING WELLS MW-1, MW-2, MW-3 AND MW-4 LOCATED AT BUILDING 2567

Monitoring Well Permit Number	Date	Time of Collection	Ground Surface Elevation (feet)	Depth to Water (feet)	Groundwater Surface Elevation (feet)
29-26925 (MW-1)	2/25/93	10:45 to 11:15 am	33.93	4.65	29.28
29-26926 (MW-2)	2/25/93	10:45 to 11:15 am	35.26	4.25	31.01
29-26927 (MW-3)	2/25/93	10:45 to 11:15 am	33.88	4.20	29.68
29-26928 (MW-4)	2/26/93	10:45 to 11:15 am	33.51	2.75	30.76

Monitoring Well Permit Number	Date	Time of Collection	Ground Surface Elevation (feet)	Depth to Water (feet)	Groundwater Surface Elevation (feet)
29-26925 (MW-1)	4/21/93	9:53 am	33.93	4.60	29.33
29-26926 (MW-2)	4/21/93	10:58 am	35.26	4.30	30.96
29-26927 (MW-3)	4/21/93	11:02 am	33.88	4.00	29.88
29-26928 (MW-4)	4/21/93	9:45 am	33.51	2.90	30.61

Monitoring Well Permit Number	Date	Time of Collection	Ground Surface Elevation (feet)	Depth to Water (feet)	Groundwater Surface Elevation (feet)
29-26925 (MW-1)	1/10/94	8:15 am	33.93	3.70	30.23
29-26926 (MW-2)	1/10/94	8:05 am	35.26	3.18	32.08
29-26927 (MW-3)	1/10/94	8:20 am	33.88	2.85	31.03
29-26928 (MW-4)	1/10/94	8:10 am	33.51	2.16	31.35

1.4 HEALTH AND SAFETY

Before, during, and after all activities, hazards at the work site which may have posed a threat to the health and safety of all personnel who were involved with, or were affected by, the decommissioning of the UST system were minimized. All areas which posed, or may have been suspected to pose a vapor hazard were monitored by a qualified individual utilizing approved equipment. The trained individual ascertained if the area was properly vented to render the area safe, as defined by OSHA.

1.5 REMOVAL OF UNDERGROUND STORAGE TANK

1.5.1 General Procedures

Between 2 and 5 February 1993, UST No. 42 to 45 were closed by removal at Building 2567 on the Charles Wood area of Fort Monmouth. Tank closure activities were conducted as follows:

- All underground obstructions (utilities,... etc.) were marked out by the contractor performing the closure prior to excavation activities.
- Surface materials (i.e, asphalt, concrete, etc...) were excavated and staged separate from all soils. These materials were later recycled in accordance with all applicable laws and regulations.
- Each tank's atmosphere was inerted.
- Access ways on top of the tank's were opened.
- Licensed tank closure contractor personnel entered the tanks to visually inspect and manually clean the insides of the tanks.
- All wastes (tank bottom sludge and tank rinsate) generated during cleaning were collected and disposed.
- The tanks were removed from the excavation and staged on plastic sheeting.
- Soil was excavated until field screening no longer indicated the presence of contamination or the structural integrity of buildings and road ways were threatened.
- Soil excavated during the tank closure was transported to Soil Remediation of Philadelphia for characterization and disposal/reuse.

- Post closure soil samples were collected for laboratory analysis.
- The excavation was backfilled with clean fill material to the original surface grade, and the area paved.
- A Sub-Surface Evaluator from the DPW was present during all closure activities.

1.5.2 Underground Storage Tank Excavation

Soil was excavated to expose the USTs and the associated piping. The piping was not removed/disturbed until all free product was drained into the USTs. The USTs were rendered vapor free by purging prior to any cutting or access. After removal of the associated piping, a manway from each UST was made to allow for proper cleaning. The USTs were completely emptied of all liquids prior to removal. Liquids were transported and disposed of by L & L Oil Service, Inc. L & L is a licensed hazardous waste transporter (USEPA ID# NJD01427895). Approximately 180 gallons of hazardous liquid was transported by L & L Oil Service, Inc. to S & W Wastes, Inc. in South Kearny, New Jersey. Hazardous waste manifests were completed and can be found in Appendix C. All of the openings in the tanks were plugged except for one hole (manway).

After the USTs were removed from the excavation, they were staged on polyethylene sheeting and examined for cracks, corrosion or puncture holes. The presence or absence of holes was documented by the Sub-Surface Evaluator. UST Nos. 42 to 45 were found to be in good condition with no corrosion holes. Groundwater was present in the excavation at approximately four feet BGS.

Soils surrounding the UST were screened visually and with a Photoionization Detector (PID) for evidence of contamination. Based on visual observations and screening approximately 936 cubic yards of soil were removed from the area surrounding the USTs and pump island. In both areas excavation was continued until either no evidence of contamination was found, based on field observations, or until further removal of soil would endanger their integrity of structures and roadways adjacent to the area of investigation. Groundwater noted in the wells at 4 feet BGS was not encountered in the excavation above the 7 feet BGS. Therefore, the excavations were extended to 7 feet BGS when necessary. When excavation was completed, the area was backfilled and the site paved. The potentially contaminated soil was manifested and transported to Soil Remediation of Philadelphia for recycling. A certificate of soil remediation is provided in Appendix E.

1.6 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

The tanks were transported by Cycle Construction, Inc. to Mazza and Sons, Inc., for recycling in compliance with all applicable regulations and laws. The Tank Reclamation Certificates are provided in Appendix F.

The contractor labelled the UST prior to transport with the following information:

- site of origin,
- contact person,
- NJDEP UST Facility ID number,
- name of transporter/contact person, and
- destination site/contact person.

1.7 MANAGEMENT OF EXCAVATED SOIL

Approximately 936 cubic yards of contaminated soil were removed from the area surrounding UST Nos. 42 to 45 and the pump island. Soil was placed on and covered with polyethylene sheets. Potentially contaminated soils were stockpiled separately from other excavated material. Potentially contaminated soils were transported to Soil Remediation of Philadelphia. A certificate of soil remediation is provided in Appendix F. All soils free of evidence of contamination were backfilled into the excavation following removal of the USTs.

SECTION 2.0

SITE INVESTIGATION ACTIVITIES

2.1 OVERVIEW

The Site Investigation was managed and carried out by U.S ARMY DPW personnel. All analyses were performed and reported by U.S. Army Fort Monmouth Environmental Laboratory, Environmental Profile Laboratories and 21st Century Environmental, which are NJDEP-certified testing laboratories. All sampling was performed under the direct supervision of a NJDEP Certified Sub-Surface Evaluator according to the methods described in the NJDEP Field Sampling Procedures Manual (May 1992). Sampling frequency and parameters analyzed complied with the NJDEP-BUST document "Technical Requirements for Site Remediation-Proposed New Rules" (May 1992) which was the applicable regulation at the date of closure. All records of the Site Investigation activities are maintained by Fort Monmouth DPW: Environmental Office.

The following Parties participated in Closure and Site Investigation activities.

- Closure Contractor #1: Cycle Construction, Inc.
  Contact Person: Peter P. Maglow
  Phone Number: (908) 264-7177
  NJDEP Company Certification No.: G0000592

- Hazardous Waste Hauler: L & L Oil Service, Inc.
  Contact Person: Frank Labella
  Phone Number: (908) 566-2785
  USEPA ID No.: NJD01427895

- Subsurface Evaluator: Charles Appleby
  Employer: U.S. Army, Fort Monmouth
  Phone Number: (908) 532-6224
  NJDEP Certification No.: 2056

- Analytical Laboratory: Environmental Profile Laboratories
  Contact Person: Daniel Wright
  Phone Number: (908) 244-6278
  NJDEP Laboratory Certification No.: 15526

- Analytical Laboratory: 21st Century Environmental, Inc.
  Contact Person: Richard W. Lynch
  Phone Number: (609) 467-9521
  NJDEP Laboratory Certification No.: 08031

- Analytical Laboratory: U.S. Army Fort Monmouth Environmental Testing Laboratory
  Contact Person: Brian McKee
  Phone Number: (609) 532-4359
  NJDEP Laboratory Certification No.: 13461

2.2 FIELD SCREENING/MONITORING

All soils that were excavated as part of the removal of the UST were screened using a PID, for evidence of contamination. Soils were also inspected visually for evidence of contamination (staining, free product, etc..). Soils on the sidewalls and base of the excavation were screened with a PID by an individual under the direct supervision of the NJDEP Certified Sub-Surface Evaluator. Evidence of contamination was noted during excavation of soils surrounding the UST and soils were subsequently removed.

2.3 SOIL AND GROUNDWATER SAMPLING

On 10 December 1991, one groundwater sample was collected from each monitoring well and analyzed by Environmental Profile Laboratories for volatile organic compounds plus 15 tentatively identified compounds (VO+15) and lead.

On 26 October 1992, one groundwater sample was collected from each monitoring well and analyzed by Environmental Profile Laboratories for VO+15 and lead.

On 2 February 1993, four post excavation soil samples were collected from the bottom and north side wall of the excavation and analyzed by U.S. Army Fort Monmouth Laboratory (FML) for total petroleum hydrocarbons (TPHC). In addition, on 8 February 1993, two post excavation soil samples were collected from the east side wall of the excavation and analyzed by FML for TPHC.

On 24 February 1993, 23 post-excavation soil samples were collected from the side walls of the excavation and analyzed by FML for TPHC and 21st Century Laboratories for VO+15 and lead.

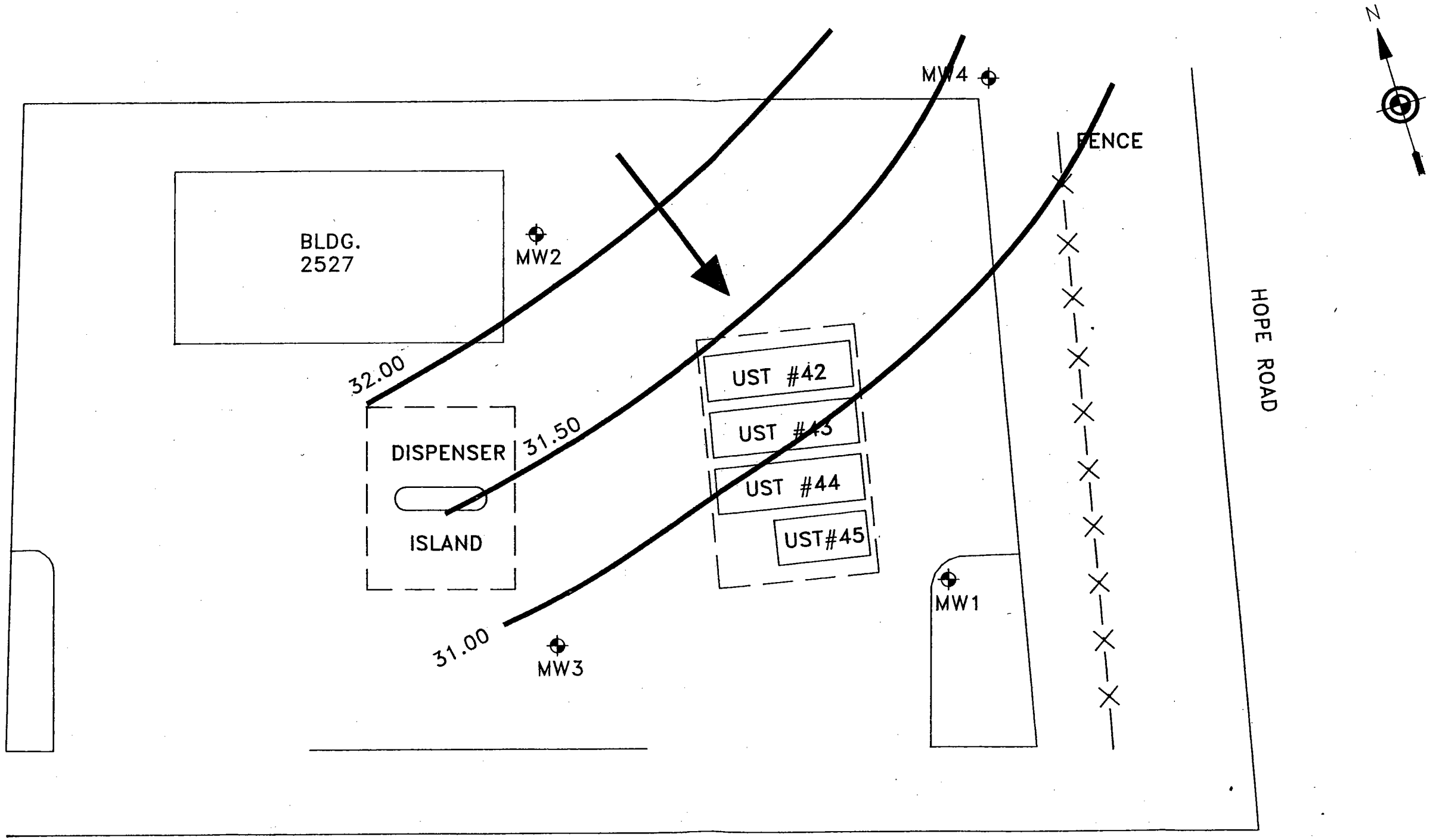
On 21 April 1993, one groundwater sample was collected from each monitoring well and analyzed by 21st Century Laboratories for VO+15, base neutral compounds plus 15 tentatively identified compounds (BN+15) and lead.

On 3 February 1994, one groundwater sample was collected from each monitoring well and analyzed by 21st Century Laboratories for VO+15 and lead.

On 31 March 1994, one groundwater sample was collected from each monitoring well and analyzed by 21st Century Laboratories for VO+15 and lead.

A summary of sampling activities including parameters analyzed is provided in Table 2-1. Figure 2-1 depicts the location of the post-excavation soil samples. Figure 2-2 depicts the locations of the monitoring wells. The post-excavation soil samples were collected using decontaminated stainless steel scoops and groundwater samples were collected using decontaminated teflon bailers. Following soil and groundwater sampling activities, the samples were chilled and delivered to the applicable testing laboratory.

The frequency of sampling and parameters analyzed were consistent with the applicable NJDEP regulations at the date of closure, which were the "Technical Requirements for Site Remediation" (NJAC 7:26E-1 et seq., dated May 1992).



LEGEND

MW3 MONITORING WELL

0' 20'
SCALE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

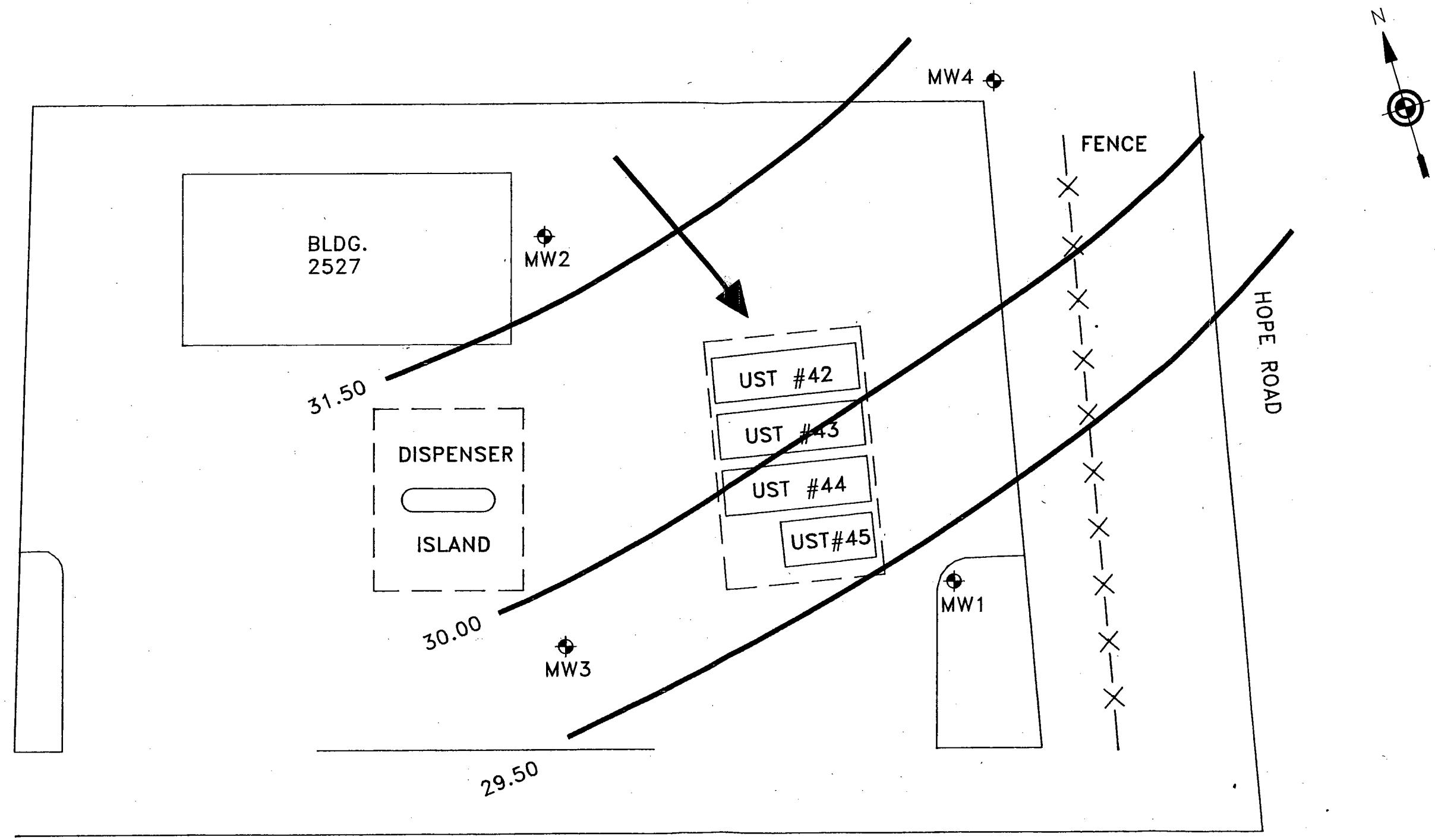
PROJECT NAME: UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT BUILDING 2567 - UST NOS. 42-45
FORT MONMOUTH, NEW JERSEY
CLIENT NAME: U.S. ARMY - FORT MONMOUTH DIRECTORATE OF PUBLIC WORKS

GROUNDWATER CONTOUR MAP (DATA COLLECTED 1/10/94)

DATE: 7/1/94

FIGURE #: 2-4

REVISION #: 000 DATE: 7/25/94
FILE NAME: B2567.DWG DRAWN BY: B. WAC



LEGEND

MW3 MONITORING WELL

0' 20'
SCALE

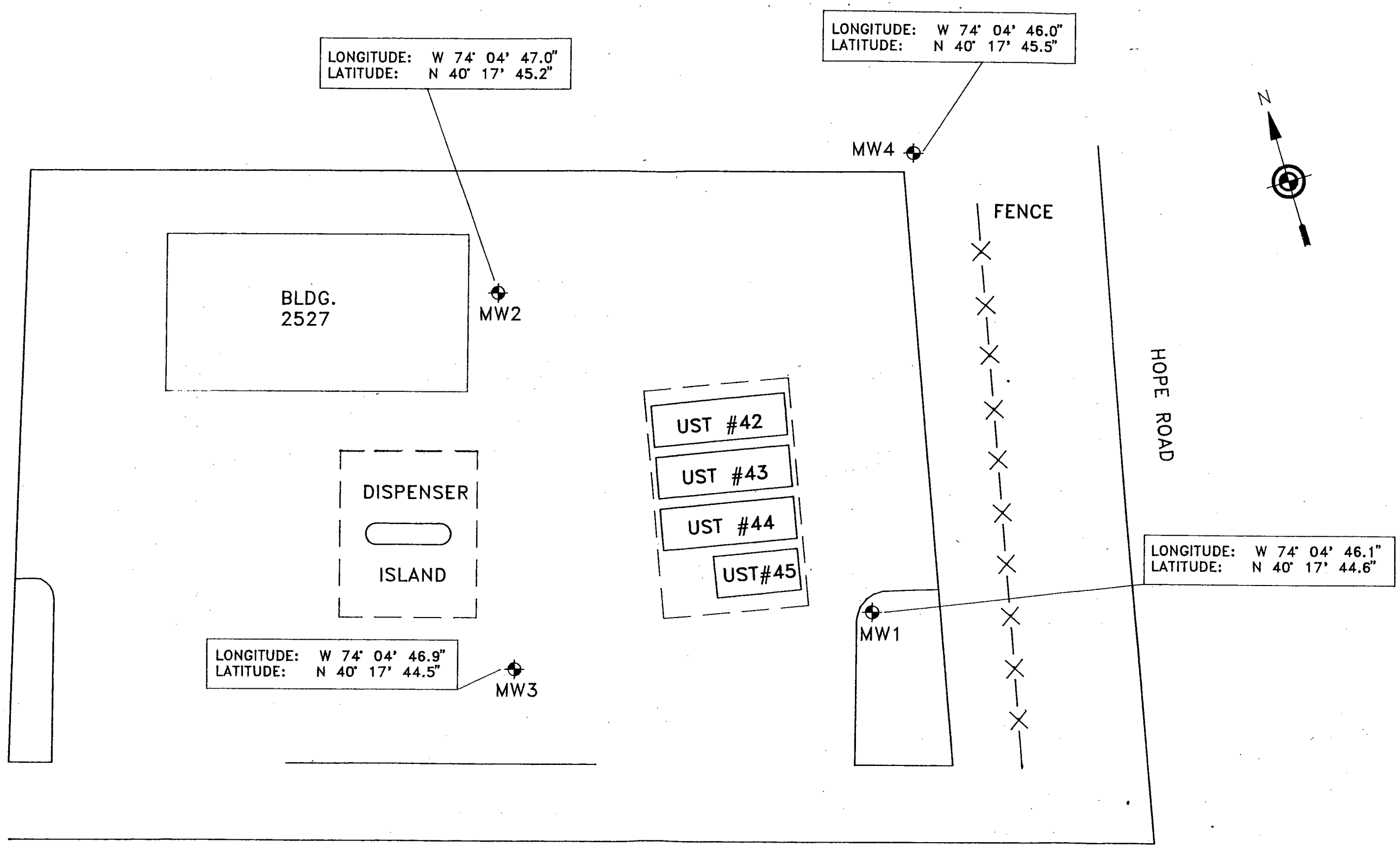
WESTON
MANAGERS DESIGNERS/CONSULTANTS

PROJECT NAME: UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT BUILDING 2567 - UST NOS. 42-45
FORT MONMOUTH, NEW JERSEY
CLIENT NAME: U.S. ARMY - FORT MONMOUTH DIRECTORATE OF PUBLIC WORKS

GROUNDWATER CONTOUR MAP (DATA COLLECTED 12/10/91)

DATE: 7/1/94
FIGURE #: 2-3

REVISION #: 000 DATE: 7/25/94
FILE NAME: 2567.DWG DRAWN BY: B. MAC



LEGEND

MW3 MONITORING WELL

0' 20'
SCALE

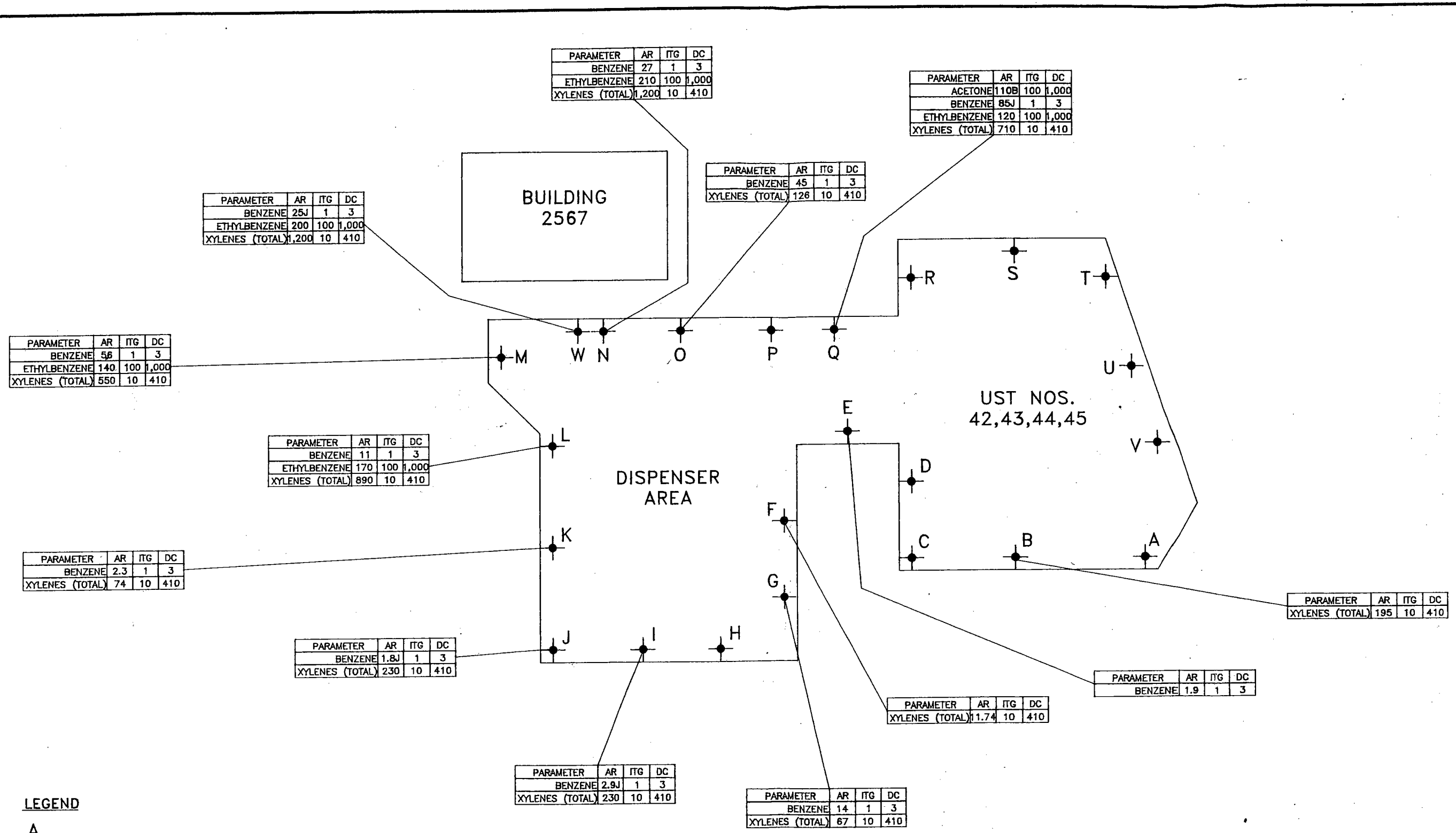
WESTON
MANAGERS DESIGNERS/CONSULTANTS

PROJECT NAME: UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT BUILDING 2567 - UST NOS. 42-45
FORT MONMOUTH, NEW JERSEY
CLIENT NAME: U.S. ARMY - FORT MONMOUTH DIRECTORATE OF PUBLIC WORKS

WELL LOCATION MAP

DATE: 7/1/94

FIGURE #: 2-2



PARAMETER	AR	ITG	DC
BENZENE	27	1	3
ETHYLBENZENE	210	100	1,000
XYLENES (TOTAL)	1,200	10	410

PARAMETER	AR	ITG	DC
ACETONE	110B	100	1,000
BENZENE	85J	1	3
ETHYLBENZENE	120	100	1,000
XYLENES (TOTAL)	710	10	410

PARAMETER	AR	ITG	DC
BENZENE	45	1	3
XYLENES (TOTAL)	126	10	410

PARAMETER	AR	ITG	DC
BENZENE	25J	1	3
ETHYLBENZENE	200	100	1,000
XYLENES (TOTAL)	1,200	10	410

PARAMETER	AR	ITG	DC
BENZENE	56	1	3
ETHYLBENZENE	140	100	1,000
XYLENES (TOTAL)	550	10	410

PARAMETER	AR	ITG	DC
BENZENE	11	1	3
ETHYLBENZENE	170	100	1,000
XYLENES (TOTAL)	890	10	410

PARAMETER	AR	ITG	DC
BENZENE	2.3	1	3
XYLENES (TOTAL)	74	10	410

PARAMETER	AR	ITG	DC
BENZENE	1.8J	1	3
XYLENES (TOTAL)	230	10	410

PARAMETER	AR	ITG	DC
BENZENE	2.9J	1	3
XYLENES (TOTAL)	230	10	410

PARAMETER	AR	ITG	DC
BENZENE	14	1	3
XYLENES (TOTAL)	67	10	410

PARAMETER	AR	ITG	DC
XYLENES (TOTAL)	11.74	10	410

PARAMETER	AR	ITG	DC
BENZENE	1.9	1	3

PARAMETER	AR	ITG	DC
XYLENES (TOTAL)	195	10	410

LEGEND

A — SOIL SAMPLING LOCATION

AR — ANALYTICAL RESULT (MG/KG)

ITG — NJDEP–IMPACT TO GROUNDWATER SOIL CLEANUP CRITERIA

DC — NJDEP–DIRECT CONTACT SOIL CLEANUP CRITERIA

J — INDICATES ESTIMATED VALUE

B — INDICATES ALSO PRESENT IN BLANK

0' 20'
SCALE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

PROJECT NAME: UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT
BUILDING 2567 - UST NOS. 42-45
FORT MONMOUTH, NEW JERSEY

CLIENT NAME: U.S. ARMY - FORT MONMOUTH DIRECTORATE OF PUBLIC WORKS

POST–EXCAVATION SOIL SAMPLING LOCATIONS

DATE: 6/9/94

FIGURE #: 2–1

REVISION #: 000 DATE: 2/8/95
FILE NAME: 02567-S.DWG DRAWN BY: R. MAC

TABLE 2-1

SUMMARY OF POST-EXCAVATION SOIL SAMPLING
BUILDING NO. 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Lab ID No.	Date of Collection	Matrix	Sample Depth (Feet BGS)	Sample Type	Analytical Parameters	Sampling Method
# 1	1140.1	2/2/93	Soil	3	Post Excavation	TPHC	Stainless Steel Scoop
# 2	1140.2	2/2/93	Soil	3	Post Excavation	TPHC	Stainless Steel Scoop
# 3	1140.3	2/2/93	Soil	12	Post Excavation	TPHC	Stainless Steel Scoop
# 4	1140.4	2/2/93	Soil	12	Post Excavation	TPHC	Stainless Steel Scoop

Sample ID No.	Lab ID No.	Date of Collection	Matrix	Sample Depth (Feet BGS)	Sample Type	Analytical Parameters	Sampling Method
S-1	1142.3	2/8/93	Soil	4	Post Excavation	TPHC	Stainless Steel Scoop
S-2	1142.4	2/8/93	Soil	2	Post Excavation	TPHC	Stainless Steel Scoop
S-3 Duplicate	1142.4	2/8/93	Soil	2	Post Excavation	TPHC	Stainless Steel Scoop
S-4 Spike	1142.4	2/8/93	Soil	2	Post Excavation	TPHC	Stainless Steel Scoop

Abbreviation:

TPHC: - Total Petroleum Hydrocarbons.

TABLE 2-1 (CONTINUED)

SUMMARY OF POST-EXCAVATION SOIL SAMPLING
BUILDING NO. 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Lab ID No.	Date of Collection	Matrix	Sample Type	Analytical Parameters	Sampling Method
A	1151.1	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
B	1151.2	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
C	1151.3	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
D	1151.4	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
E	1151.5	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
F	1151.6	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
G	1151.7	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
H	1151.8	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
I	1151.9	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
J	1151.10	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
K	1151.11	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
L	1151.12	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
M	1151.13	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
N	1151.14	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
O	1151.15	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop
P	1151.16	2/24/93	Soil	Post Excavation	TPHC	Stainless Steel Scoop

Abbreviation:

TPHC: - Total Petroleum Hydrocarbons.

TABLE 2-1 (CONTINUED)

SUMMARY OF POST-EXCAVATION SOIL SAMPLING
BUILDING NO. 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Lab ID No.	Date of Collection	Matrix	Sample Type	Analytical Parameters	Sampling Method
Q	1151.17	2/24/93	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
R	1151.18	2/24/93	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
S	1151.19	2/24/93	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
T	1151.20	2/24/93	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
U	1151.21	2/24/93	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
V	1151.22	2/24/93	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
W	1151.23	2/24/93	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
Duplicate	1151.23 Dup	2/24/93	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
Spike	1151.23 Spike	2/24/93	Soil	Post-Excavation	TPHC	Stainless Steel Scoop

Abbreviation:

TPHC: - Total Petroleum Hydrocarbons.

TABLE 2-1 (CONTINUED)

SUMMARY OF POST-EXCAVATION SOIL SAMPLING
BUILDING NO. 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Lab ID No.	Date of Collection	Matrix	Sample Type	Analytical Parameters	Sampling Method
A	A0995	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
B	A0996	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
C	A0997	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
D	A0998	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
E	A0999	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
F	A1000	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
G	A1001	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
H	A1002	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
I	A1003	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
J	A1004	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
K	A1005	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
L	A1006	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
M	A1007	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
N	A1008	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
O	A1009	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
P	A1010	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
Q	A1011	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
R	A1012	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
S	A1013	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
T	A1014	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop

TABLE 2-1 (CONTINUED)

SUMMARY OF POST-EXCAVATION SOIL SAMPLING
BUILDING NO. 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Lab ID No.	Date of Collection	Matrix	Sample Type	Analytical Parameters	Sampling Method
U	A1015	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
V	A1016	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
W	A1017	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
Trip Blank	A1018	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop
Field Blank	A1019	2/24/93	Soil	Post-Excavation	VO+15, LEAD	Stainless Steel Scoop

Abbreviation:

VO+15: - Volatile Organic Analysis Plus 15 tentatively identified compounds.

TABLE 2-2

SUMMARY OF GROUNDWATER SAMPLING
BUILDING NO. 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Lab ID No.	Date of Collection	Matrix	Sample Type	Analytical Parameters	Sampling Method
MW-1	6944.8	12/10/91	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-2	6944.9	12/10/91	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-3	6944.10	12/10/91	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-4	6944.11	12/10/91	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-1	9173.15	10/26/92	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-1 (Dup)	9173.16	10/26/92	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-2	9173.17	10/26/92	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-3	9173.18	10/26/92	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-4	9173.19	10/26/92	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-1	A1634	4/21/93	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-1 (Dup)	A1635	4/21/93	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-2	A1636	4/21/93	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-3	A1637	4/21/93	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-4	A1633	4/21/93	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-1	A1745	4/28/93	Aqueous	Monitoring Well	BN+15	Decontaminated Teflon Bailer
MW-2	A1747	4/28/93	Aqueous	Monitoring Well	BN+15	Decontaminated Teflon Bailer
MW-3	A1746	4/28/93	Aqueous	Monitoring Well	BN+15	Decontaminated Teflon Bailer
MW-4	A1748	4/28/93	Aqueous	Monitoring Well	BN+15	Decontaminated Teflon Bailer
MW-1	B0244	2/3/94	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer

TABLE 2-2 (CONTINUED)

SUMMARY OF GROUNDWATER SAMPLING
BUILDING NO. 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.	Lab ID No.	Date of Collection	Matrix	Sample Type	Analytical Parameters	Sampling Method
MW-2	B0243	2/3/94	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-3	B0245	2/3/94	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-4	B0242	2/3/94	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-1	B0658	3/31/94	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-2	B0660	3/31/94	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-3	B0659	3/31/94	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-4	B0656	3/31/94	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer
MW-4 (Dup)	B0657	3/31/94	Aqueous	Monitoring Well	Lead, VO+15	Decontaminated Teflon Bailer

Abbreviations:

VO+15: - Volatile organic analysis plus 15 tentatively identified compounds.
BN+15: - Base neutral analysis plus 15 tentatively identified compounds.
DUP: - Duplicate Sample.

SECTION 3.0

CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL AND GROUNDWATER SAMPLING RESULTS

To evaluate soil conditions following removal of the USTs and associated soils, the post-excavation sample results were compared to NJDEP ITGW and RDC Soil Cleanup Criteria (N.J.A.C. 7:26D and revisions dated 3 February 1994). Summaries of analytical results for soils are presented in Table No. 3-1.

To evaluate groundwater conditions following removal of the USTs and associated soils, analytical results from the groundwater samples were compared to NJDEP Class II-A Ground Water Quality Criteria (N.J.A.C. 7:9-6.4, 6.8 and Table 1). A summary of the analytical results and comparison to NJDEP Class II Groundwater Cleanup Standards is provided in Table No. 3-2.

A summary of the analytical methods used and quality assurance information is provided in Table 3-3. The analytical data package summary is provided in Appendix E. The full data package, including associated quality control and chromatograph data are on file at U.S. Army Fort Monmouth, DPW.

Soil

On 2 February 1993, four post excavation soil samples were collected from the bottom and north sidewall of the excavation and analyzed by U.S. Army Fort Monmouth Laboratory (FML) for total petroleum hydrocarbons (TPHC). In addition, on 8 February 1993, two post excavation soil samples were collected from the east sidewall of the excavation and analyzed by FML for TPHC. In accordance with NJDEP requirements, those samples which exhibited a concentration of TPHC exceeding 1,000 milligrams per kilogram (mg/kg) would have been also analyzed for VO+15. Based on the concentrations of TPHC detected in the post excavation samples, no samples were analyzed for VO+15.

On 24 February 1993, 23 post-excavation soil samples were collected from the sidewalls of the excavation and analyzed by FML for TPHC and 21st Century Laboratories for VO+15 and lead. TPHC was detected in all samples, although only sample L (4539.3 mg/kg) exceeded the 1,000 mg/kg requirement. Lead was detected in samples A (129 mg/kg), B (55.1 mg/kg), C (15 mg/kg), F (19.6 mg/kg), G (37.4 mg/kg), H (15.2 mg/kg), I (39 mg/kg), J (15.5 mg/kg), K (6.19 mg/kg), L (25.8 mg/kg), M (87.5 mg/kg), N (49.3 mg/kg), O (92.5 mg/kg), R (7.77 mg/kg), S (10.8 mg/kg), T (9.38 mg/kg), V (22.7 mg/kg) and W (47.2 mg/kg). Benzene was

TABLE 3-1

SUMMARY OF ANALYTICAL RESULTS FOR SOILS
BUILDING NO. 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.		#1	#2	#3	#4	S-1	S-2	S-3 Duplicate	S-4 Spike	A	B	C	D	E	F	NJDEP Impact to Groundwater Soil Cleanup Criteria	Residential Direct Contact Soil Cleanup Criteria
Lab ID No.		1140.1	1140.2	1140.3	1140.4	1142.3	1142.4	1142.4	1142.4	1151.1	1151.2	1151.3	1151.4	1151.5	1151.6		
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Type		PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE		
Date of Collection		2/2/93	2/2/93	2/2/93	2/2/93	2/8/93	2/8/93	2/8/93	2/8/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93		
Analytical Parameter	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPHC		65.1	ND	ND	ND	141	7.9	2.0	382	9.1	31	31.4	37.4	41.5	44.1	NC*	NC*

Sample ID No.		G	H	I	J	K	L	M	N	O	P	Q	R	S	T	NJDEP Impact to Groundwater Soil Cleanup Criteria	Residential Direct Contact Soil Cleanup Criteria
Lab ID No.		1511.7	1151.8	1151.9	1151.10	1151.11	1151.12	1151.13	1151.14	1151.15	1151.16	1151.17	1151.18	1151.19	1151.20		
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Type		PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE		
Date of Collection		2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/8/93	2/8/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93		
Analytical Parameter	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPHC		50.4	53.4	28.9	66.3	90.4	4539.3	290.5	246.3	279.6	151.2	362.7	147.8	59.2	120.5	NC*	NC*

Abbreviations:

NC*: - No cleanup criterion has been proposed by NJDEP; however, the proposed NJDEP subsurface cleanup criterion for total organic compounds is 10,000 mg/kg.
PE: - Post Excavation
TPHC: - Total petroleum hydrocarbons
mg/kg: - Milligrams per kilogram

nk\FortMonm\Bldg2567.Rpt

TABLE 3-1 (CONTINUED)

SUMMARY OF ANALYTICAL RESULTS FOR SOILS
BUILDING NO. 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.		U	V	W	W-Duplicate	W-Spike	NJDEP Impact to Groundwater Soil Cleanup Criteria
Lab ID No.		1151.21	1151.22	1151.23	1151.23 Dup	1151.23 Spike	
Matrix		Soil	Soil	Soil	Soil	Soil	
Sample Type		PE	PE	PE	PE	PE	
Date of Collection		2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	
Analytical Parameter	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPHC		187.4	217.3	321.5	307	1043.1	NC*

Abbreviations:

NC*: - No cleanup criterion has been proposed by NJDEP; however, the proposed NJDEP subsurface cleanup criterion for total organic compounds is 10,000 mg/kg.
PE: - Post Excavation
TPHC: - Total petroleum hydrocarbons
mg/kg: - Milligrams per kilogram

TABLE 3-1 (CONTINUED)

SUMMARY OF ANALYTICAL RESULTS FOR SOILS
BUILDING NO. 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.		A	B	C	D	E	F	G	H	I	J	K	L	M	N	NJDEP Impact to Groundwater Soil Cleanup Criteria	Residential Direct Contact Soil Cleanup Criteria
Lab ID No.		A0995	A0996	A0997	A0998	A0999	A1000	A1001	A1002	A1003	A1004	A1005	A1006	A1007	A1008		
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Type		PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE		
Date of Collection		2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93		
Analytical Parameter	Units																
Volatile Organic Compounds																	
Acetone	mg/kg	0.014	ND B	0.35	0.020	0.14	ND	ND	ND	ND	ND	ND	ND	ND	39 JB	100	1,000
Methylene Chloride	mg/kg	ND	ND B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	49
2-Butanone	mg/kg	ND	ND	0.069	ND	ND	ND	ND	0.39J	2.4J	ND	ND	ND	ND	ND	50	1,000
Benzene	mg/kg	ND	ND	ND	ND	1.9	0.68J	14	0.25J	2.9 J	1.8J	2.3	11	5.6	27	1	3
Toluene	mg/kg	ND	ND	0.0036J	ND	0.044	1.0	14	1.2	30	68	32	320	110	460	500	1,000
Ethylbenzene	mg/kg	ND	44	ND	ND	0.02 J	0.78J	9.3	1.4	45	37	14	170	140	210	100	1,000
Xylenes (Total)	mg/kg	ND	195	0.024	0.019	0.116	11.74	67	8.6	230	229	74	890	550	1,200	10	410
Inorganics																	
Lead	mg/kg	129	55.1	15.0	ND	ND	19.6	37.4	15.2	39.0	15.5	6.19	25.8	87.5	49.3	NC	400

TABLE 3-1 (CONTINUED)

SUMMARY OF ANALYTICAL RESULTS FOR SOILS
BUILDING NO. 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.		O	P	Q	R	S	T	U	V	W	Trip Blank	Field Blank	NJDEP Impact to Groundwater Soil Cleanup Criteria	Residential Direct Contact Soil Cleanup Criteria
Lab ID No.		A1009	A1010	A1011	A1012	A1013	A1014	A1015	A1016	A1017	A1018	A1019		
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Type		PE	PE	PE	PE	PE	PE	PE	PE	PE	PE	PE		
Date of Collection		2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93	2/24/93		
Analytical Parameter	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/L	mg/kg	mg/kg
Volatile Organic Compounds														
Acetone		ND	ND	110B	0.059B	0.14B	0.068B	0.0073JB	0.12B	ND	0.0065JB	3.3B	100	1,000
Methylene Chloride		ND	ND	ND	ND	ND	ND	0.0033JB	0.007J	ND	ND	ND	1	49
2-Butanone		ND	0.018 J	ND	ND	0.037	ND	ND	0.031	ND	ND	ND	50	1,000
Benzene		45	0.032 J	85 J	ND	0.029	0.0023J	ND	0.026	25J	ND	0.038	1	3
Xylene (Total)		126	1.11	710	0.0087J	0.0099J	0.0046J	0.0052J	0.0099J	1200	ND	0.38	10	410
Toluene		11	0.29	220	0.0014J	0.0087	0.0021J	0.0038J	0.0097	450	ND	0.29	500	1,000
Ethylbenzene		29	0.14	120	ND	0.002J	ND	ND	0.002J	200	ND	0.074J	100	1,000
Inorganics														
Lead		92.5	ND	ND	7.77	10.8	9.38	ND	22.7	47.2	ND	ND	NC	400

TABLE 3-1 (CONTINUED)

ABBREVIATIONS, DATA QUALIFIERS AND NOTES
BUILDING NO. 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Abbreviations:

PE:	-	Post Excavation
NC:	-	No groundwater cleanup criterion has been proposed for this analyte by NJDEP.
ND:	-	Not detected.
mg/kg:	-	Milligrams per Kilogram.

Data Qualifiers:

J:	-	Indicates an estimated value.
B:	-	Indicates also present in blank.

TABLE 3-2

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
BUILDING 2567
UST NOS. 42 TO 45

Sample ID No.		MW-1	MW-2	MW-3	MW-4	NJDEP Class II-A Groundwater Cleanup Criteria
Lab ID No.		6944.8	6944.9	6944.10	6944.11	
Matrix		Aqueous	Aqueous	Aqueous	Aqueous	
Sample Type		MW	MW	MW	MW	
Date of Collection		12/10/91	12/10/91	12/10/91	12/10/91	
Analytical Parameter	Units					
Lead	ug/L	4	ND	ND	5	10
VOLATILE ORGANIC COMPOUNDS						
Methylene Chloride	ug/L	240	7	240	27	2
1,2-Dichloroethane	ug/L	55	ND	ND	ND	2
Benzene	ug/L	2400	3 J	110	ND	1
Xylenes (Total)	ug/L	42 J	ND	200	ND	40
tert-Butyl Alcohol	ug/L	4400	ND	ND	ND	NC
Methyl tert-Butyl Ether	ug/L	2200	ND	69	ND	NC

TABLE 3-2 (CONTINUED)

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
BUILDING 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.		MW-1	MW-1 (Dup)	MW-2	MW-3	MW-4	Field Blank	Trip Blank	NJDEP Class II-A Groundwater Cleanup Criteria
Lab ID No.		9173.15	9173.16	9173.17	9173.18	9173.19	9173.25	9173.26	
Matrix		Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	
Sample Type		MW	MW	MW	MW	MW	QA	QA	
Date of Collection		10/26/92	10/26/92	10/26/92	10/26/92	10/26/92	10/26/92	10/26/92	
Analytical Parameter	Units								
Lead	ug/L	ND	ND	11	5	ND	NA	NA	10
VOLATILE ORGANIC COMPOUNDS									
Methylene Chloride	ug/L	420 B	130 B	23 B	24	27 B	66 B	5 JB	2
Bromodichloromethane	ug/L	77	ND	ND	ND	ND	ND	ND	NC
1,2-Dichloropropane	ug/L	62	ND	ND	ND	ND	ND	ND	1
Cis-1,3-Dichloropropene	ug/L	48 J	ND	ND	ND	ND	ND	ND	0.2
Trichloroethene	ug/L	32 J	ND	ND	ND	ND	ND	ND	1
Dibromochloromethane	ug/L	130	ND	ND	ND	ND	ND	ND	10
1,1,2-Trichloroethane	ug/L	140	ND	ND	ND	ND	ND	ND	3
Benzene	ug/L	2800	3200	ND	ND	ND	ND	ND	1
Trans-1,3-Dichloropropene	ug/L	220	ND	ND	ND	ND	ND	ND	0.2
Bromoform	ug/L	140	ND	ND	ND	ND	ND	ND	4
Tetrachloroethene	ug/L	51	ND	ND	ND	ND	ND	ND	1
1,1,2,2-Tetrachloroethane	ug/L	170	ND	ND	ND	ND	ND	ND	2
Toluene	ug/L	73	ND	ND	ND	ND	ND	ND	1,000
Chlorobenzene	ug/L	99	ND	ND	ND	ND	ND	ND	2

TABLE 3-2 (CONTINUED)
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
BUILDING 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.		MW-1	MW-1 (Dup)	MW-2	MW-3	MW-4	Field Blank	Trip Blank	NJDEP Class II-A Groundwater Cleanup Criteria
Lab ID No.		9173.15	9173.16	9173.17	9173.18	9173.19	9173.25	9173.26	
Matrix		Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	
Sample Type		MW	MW	MW	MW	MW	QA	QA	
Date of Collection		10/26/92	10/26/92	10/26/92	10/26/92	10/26/92	10/26/92	10/26/92	
Analytical Parameter	Units								
Ethylbenzene	ug/L	90	ND	ND	ND	ND	ND	ND	700
Styrene	ug/L	84	ND	ND	ND	ND	ND	ND	100
Xylenes (Total)	ug/L	302	57	3 J	3 J	ND	ND	ND	40
1,3-Dichlorobenzene	ug/L	100	ND	ND	ND	ND	ND	ND	600
1,2-Dichlorobenzene	ug/L	120	ND	ND	ND	ND	ND	ND	600
1,4 - Dichlorobenzene	ug/L	120	ND	ND	ND	ND	ND	ND	75
Tert-butyl Alcohol	ug/L	5400	7000	ND	ND	ND	ND	ND	NC
Methyl Tert-butyl Ether	ug/L	1200	1500	ND	ND	ND	ND	ND	NC
Acetone	ug/L	ND	ND	ND	1 J	ND	84	ND	700

Abbreviations:

NC - No NJDEP Class II-A groundwater cleanup criterion has been proposed for this analyte by NJDEP.
ND - Not detected.
NR - Analysis not requested.
MW - Monitoring Well.
QA - Quality Assurance sample.
ug/L - Micrograms per liter.

Data Qualifiers:

B - Indicates also present in blank.
J - Indicates an estimated value.

TABLE 3-2 (CONTINUED)

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
BUILDING 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.		MW-1	MW-1 Dup	MW-2	MW-3	MW-4	Field Blank	Trip Blank	NJDEP Class II-A Groundwater Cleanup Criteria
Lab ID No.		A 1634	A 1635	A 1636	A 1637	A 1633	A 1638	A 1639	
Matrix		Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	
Sample Type		MW	MW	MW	MW	MW	MW	MW	
Date of Collection		4/21/93	4/21/93	4/21/93	4/21/93	4/21/93	4/21/93	4/21/93	
Analytical Parameter	Units								
Lead	ug/L	70	ND	ND	60	ND	ND	NA	10
VOLATILE ORGANIC COMPOUNDS									
Acetone	ug/L	ND	28 JB	2.5 JB	7.7 JB	2.4 JB	2.5 JB	ND	700
Methylene Chloride	ug/L	16 J	ND	ND	ND	ND	3.8 J	4.8 J	2
Benzene	ug/L	520	470	ND	180	ND	ND	ND	1
Toluene	ug/L	ND	ND	ND	15	ND	ND	ND	1,000
Methyl Tertiary Butyl Ether	ug/L	890	970	ND	27	ND	ND	ND	NC
Tert-butyl alcohol	ug/L	470 J	640	ND	ND	ND	ND	ND	NC
Xylenes (Total)	ug/L	ND	ND	2.0 J	74.2 J	ND	ND	ND	40

Abbreviations:

MW - Monitoring Well.
ND - Not detected.
J - Indicates an estimated value.
ug/L - Micrograms per liter.

TABLE 3-2 (CONTINUED)

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
BUILDING 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.		MW-1	MW-2	MW-3	MW-4	Field Blank	NJDEP Class II-A Groundwater Cleanup Criteria
Lab ID No.		A 1745	A 1747	A 1746	A 1748	A 1749	
Matrix		Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	
Sample Type		MW	MW	MW	MW	QA	
Date of Collection		4/28/93	4/28/93	4/28/93	4/28/93	4/28/93	
Analytical Parameter	Units						
BASE NEUTRAL COMPOUNDS							
Butylbenzylphthalate	ug/L	12	18	12	10	ND	NC
Naphthalene	ug/L	ND	ND	1.2 J	ND	ND	NC
Bis(2-Ethylhexyl)Phthalate	ug/L	ND	ND	2.8 J	ND	ND	30

Abbreviations:

MW - Monitoring Well.
NC - No NJDEP Class II-A groundwater criterion has been proposed for this analyte by NJDEP.
ug/L - Micrograms per liter.
QA - Quality Assurance

Data Qualifiers:

ND - Not detected.
J - Indicates an estimated value.

TABLE 3-2 (CONTINUED)

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
BUILDING 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.		MW-1	MW-2	MW-3	MW-4	Field Blank	Trip Blank	NJDEP Class II-A Groundwater Cleanup Criteria
Lab ID No.		B 0244	B 0243	B 0245	B 0242	B 0246	B 0241	
Matrix		Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	
Sample Type		MW	MW	MW	MW	QA	QA	
Date of Collection		2/3/94	2/3/94	2/3/94	2/3/94	2/3/94	2/3/94	
Analytical Parameter	Units							
INORGANIC								
Lead	ug/L	ND	260	41	ND	ND	NA	10
VOLATILE ORGANIC COMPOUNDS								
Methylene Chloride	ug/L	26 JB	4.0 J	4.4 J	5.0	7.3	5.2	2
Vinyl Acetate	ug/L	ND	ND	ND	1.3 J	ND	ND	NC
Benzene	ug/L	21 J	19	19	14	ND	ND	1
Toluene	ug/L	66	55	43	56	ND	ND	1000
Ethylbenzene	ug/L	16 J	7.4	7.0	8.9	ND	ND	700
Xylenes (Total)	ug/L	41	43	65	60	ND	ND	40
Tert-butyl alcohol	ug/L	28 J	ND	ND	ND	ND	ND	NC
Carbon Disulfide	ug/L	ND	3.1 J	ND	ND	ND	ND	NC
Acetone	ug/L	54 JB	ND	ND	ND	12	ND	700
Methyl tert-butyl ether	ug/L	650	7.0 J	9.1	ND	ND	ND	NC

Abbreviations:

MW - Monitoring Well.
NC - No NJDEP Class II-A groundwater cleanup criterion has been proposed for this analyte by NJDEP.
ND - Not detected.
J - Indicates an estimated value.
B - Indicates also present in blank.
ug/L - Micrograms per liter.

TABLE 3-2 (CONTINUED)

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
BUILDING 2567
UST NOS. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Sample ID No.		MW-1	MW-2	MW-3	MW-4	MW-4 (Dup)	Field Blank	Trip Blank	NJDEP Class II-A Groundwater Cleanup Criteria
Lab ID No.		B 0658	B 0660	B 0659	B 0656	B 0657	B 0661	B 0662	
Matrix		Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	
Sample Type		MW	MW	MW	MW	MW	QA	QA	
Date of Collection		3/31/94	3/31/94	3/31/94	3/31/94	3/31/94	3/31/94	3/31/94	
Analytical Parameter	Units								
VOLATILE ORGANIC COMPOUNDS									
Xylene (Total)	ug/L	ND	2.5 J	ND	ND	ND	ND	ND	40
Methyl Tert-Butyl Ether (MTBE)	ug/L	10	11	ND	1.3 J	1.3 J	ND	ND	NC
Acetone	ug/L	6.9 J	140 B	ND	ND	4.4 JB	7.2 JB	11 B	700
Methylene Chloride	ug/L	ND	17	ND	2.3 J	2.9 J	2.3 J	3.1 J	2
Tertiary Butyl Alcohol	ug/L	22 J	ND	ND	ND	ND	ND	ND	NC
INORGANIC COMPOUNDS									
Lead	ug/L	ND	ND	25	ND	ND	ND	NA	100

Abbreviations:

NC - No NJDEP Class II-A groundwater cleanup criterion has been proposed for this analyte by NJDEP.
ND - Not detected.
NR - Analysis not requested.
MW - Monitoring Well.
QA - Quality Assurance sample.
ug/L - Micrograms per liter.

Data Qualifiers:

B - Indicates also present in blank.
J - Indicates an estimated value.

TABLE 3-3

ANALYTICAL METHODS/QUALITY ASSURANCE SUMMARY TABLE
UST NO. 2567
BUILDING NO. 42 TO 45
FORT MONMOUTH, NEW JERSEY

Analytical Parameter	No. of Samples Collected	Matrix	Date Collected	Date Analysis Completed	Preservation Method	USEPA SW-846 Analytical Method
TPHC	4	S	2/2/93	2/3/93	Cool to 4°C	418.1
TPHC	4	S	2/8/93	2/8/93	Cool to 4°C	418.1
TPHC	23	S	2/24/93	2/24/93	Cool to 4°C	418.1
VOCs	23	S	2/24/93	2/26/93	Cool to 4°C	USEPA-CLP-IFB
Lead	23	S	2/24/93	2/25/93	Cool to 4°C	6010
Lead	4	Aqueous	12/10/91	12/11/91	Cool to 4°C	418.1
VOCs	4	Aqueous	12/10/91	12/13/91	Cool to 4°C	USEPA-CLP-IFB
Lead	4	Aqueous	10/26/92	10/28/92	Cool to 4°C	418.1
VOCs	4	Aqueous	10/26/92	10/30/92	Cool to 4°C	USEPA-CLP-IFB
Lead	4	Aqueous	4/21/93	4/27/93	Cool to 4°C	418.1
VOCs	4	Aqueous	4/21/93	4/27/93	Cool to 4°C	USEPA-CLP-IFB
BNAs	4	Aqueous	4/28/93	5/12/93	Cool to 4°C	8270
Lead	4	Aqueous	2/3/94	2/7/94	Cool to 4°C	418.1
VOCs	4	Aqueous	2/3/94	2/7/94	Cool to 4°C	USEPA-CLP-IFB
Lead	4	Aqueous	3/31/94	4/5/94	Cool to 4°C	418.1
VOCs	4	Aqueous	3/31/94	4/5/94	Cool to 4°C	USEPA-CLP-IFB

Abbreviations:

USEPA-CLP-IFB - Volatile samples were analyzed using the method cited in the USEPA-CLP-IFB version 2/88. The CLP volatile method is based on USEPA Method 624 and SW-846.
TPHC - Total Petroleum Hydrocarbons.
VOCs - Volatile Organic Compounds.
BNAs - Base Neutral Acid Extractable Compounds.
C - Celsius.

detected in samples E (1.9 mg/kg), G (14 mg/kg), I (2.9 mg/kg), J (1.8 mg/kg), K (2.3 mg/kg), L (11 mg/kg), M (5.6 mg/kg), N (27 mg/kg), O (45 mg/kg), Q (8.5 mg/kg) and W (34 mg/kg). Total xylenes were detected in samples B (195 mg/kg), F (11.7 mg/kg), G (67 mg/kg), I (230 mg/kg), J (229 mg/kg), K (74 mg/kg), L (890 mg/kg), M (550 mg/kg), N (1200 mg/kg), O (126 mg/kg), Q (710 mg/kg) and W (1200 mg/kg). Ethyl benzene was detected in samples L (170 mg/kg), M (140 mg/kg), N (210 mg/kg), Q (120 mg/kg) and W (170 mg/kg). All other samples contained either non-detectable concentrations of contaminants or concentrations of contaminants below NJDEP ITGW or RDC Soil Cleanup Criteria.

Groundwater

On 10 December 1991, one groundwater sample was collected from each monitoring well and analyzed by Environmental Profile Laboratories for volatile organic compounds plus 15 tentatively identified compounds (VO+15) and lead. Benzene was detected in MW-1 (2400 ug/l), MW-2 (3 ug/l) and MW-3 (110 ug/l), 1,2-dichloroethane in MW-1 (55 ug/l), total xylene in MW-1 (42 ug/l) and MW-3 (200 ug/l), and methylene chloride in MW-1 (240 ug/l), MW-2 (7 ug/l), MW-3 (240 ug/l) and MW-4 (27 ug/l). These concentrations of contaminants exceed NJDEP Class II-A Ground Water Quality Criteria. All other samples contained either non-detectable concentrations of contaminants or concentrations of contaminants below NJDEP Class II-A Ground Water Quality Criteria.

On 26 October 1992, one groundwater sample was collected from each monitoring well and analyzed by Environmental Profile Laboratories for VO+15 and lead. Due to an unusual amount of contaminants present which exceeded NJDEP Class II-A ground water quality criteria in MW-1, a duplicate sample was analyzed. The MW-1 duplicate sample indicated concentrations of benzene (3200 ug/l), total xylene (57 ug/l) and methylene chloride (130 ug/l). In addition, methylene chloride was detected in MW-2 (23 ug/l), MW-3 (24 ug/l) and MW-4 (27 ug/l), and lead in MW-2 (11 ug/l) which exceed NJDEP Class II-a ground water quality criteria. All other samples contained either non-detectable concentrations of contaminants or concentrations of contaminants below NJDEP Class II-A ground water quality criteria.
Class II Groundwater Cleanup Standards.

On 21 April 1993, one groundwater sample was collected from each monitoring well and analyzed by 21st Century Laboratories for VO+15 and lead. Lead was detected in MW-1 (70 ug/l) and MW-3 (60 ug/l) in concentrations which exceed NJDEP Class II-A ground water quality criteria. In addition, benzene was detected in MW-1 (520 ug/l) and MW-1 duplicate (470 ug/l), total xylene in MW-3 (74.2 ug/l) and methylene chloride in MW-1 (16 ug/l). Methylene chloride was also detected in the field blank (3.8 ug/l) and the trip blank (4.8 ug/l). The presence of methylene chloride in these quality assurance samples indicates laboratory induced contamination of sample may have occurred and is not related to the operation of the UST system. All other samples contained either non-detectable concentrations of contaminants or concentrations of contaminants below NJDEP Class II-A ground water quality criteria.

On 28 April 1993, one groundwater sample was collected from each monitoring well and analyzed by 21st Century Laboratories for base neutral compounds plus 15 tentatively identified compounds (BN+15). All samples contained either non-detectable concentrations of contaminated or concentrations of contaminants below NJDEP Class II-A Ground Water Quality Criteria.

On 3 February 1994, one groundwater sample was collected from each monitoring well and analyzed by 21st Century Laboratories for VO+15 and lead. Lead was detected in MW-2 (260 ug/l) and MW-3 (41 ug/l) in concentrations which exceed NJDEP Class II-A ground water quality criteria. Benzene was detected in MW-1 (21 ug/l), MW-2 (19 ug/l), MW-3 (19 ug/l) and MW-4 (14 ug/l). Total xylene was detected in MW-1 (42 ug/l), MW-2 (43 ug/l), MW-3 (65 ug/l) and MW-4 (60 ug/l). Methylene chloride was detected in MW-1 (26 ug/l), MW-2 (4 ug/l), MW-3 (4.4 ug/l) and MW-4 (5 ug/l). All other samples contained either non-detectable concentrations of contaminants or concentrations of contaminants below NJDEP Class II-A ground water quality criteria.

On 31 March 1994, one groundwater sample was collected from each monitoring well and analyzed by 21st Century Laboratories for VO+15 and lead. Lead was detected in MW-3 (25 ug/l) in concentrations which exceed NJDEP Class II-A ground water quality criteria. Methylene chloride was detected in MW-2 (17 ug/l), MW-4 (2.3 ug/l) and MW-4 duplicate (2.9 ug/l). Since methylene chloride was also detected in the field blank (2.3 ug/l) and the trip blank (3.1 ug/l), its presence indicates laboratory induced contamination of sample may have occurred and is not related to the operation of the UST system. All other samples contained either non-detectable concentrations of contaminants or concentrations of contaminants below NJDEP Class II-A ground water quality criteria.

3.2 CONCLUSIONS AND RECOMMENDATIONS

Prior to the closure of UST No. 42, 43, 44 and 45, four monitoring wells were installed and sampled. Based on the analysis of groundwater samples elevated volatile and semivolatile parameters were detected. The most notable of the parameters were benzene (3 ug/L to 3,200 ug/L) and total xylenes (55 ug/L to 200 ug/L).

During closure, the tanks were observed to be intact and potentially contaminated soil was excavated until further removal would threatened the integrity of structure and roadways or until field screening indicated sufficient reduction in contaminant levels. Upon completion the excavation was backfilled with clean material and the surface paved.

Monitoring well samples, obtained after the closure, indicated significant reductions in groundwater contamination. Samples obtained on 31 March 1994 indicated the presence of only methylene chloride above NJDEP Class IIA groundwater quality criteria.

The reduction in groundwater contaminant levels is attributable to the following:

- The contaminant sources, Tank Nos. 42 to 45, 936 cubic yards of soil and the pump island piping were successfully removed. The analytical testing of soil has indicated that limited residual contamination exists in the soil below the surface.

- The site was backfilled with clean material and paved. The asphalt pavement caps the site precludes the infiltration of precipitation and other surface water to the ground; which reduces the potential for residual soil contaminants leaching from the soil into ground water.

Based on the above actions that have been implement on-site, the future impact of the site on the groundwater is considered to be insignificant. On 23 September 1994 a fifth monitoring well (MW-5) was installed to assess groundwater downgradient from the site. The four on-site and one downgradient wells will be sampled quarterly and analyzed for VO+15, xylenes, methyl tertiary butyl ether, tertiarybutyl alcohol and lead using Method 524.2. Information regarding these samples will be forwarded to the State.

APPENDIX C

Results of Long-Term Groundwater Monitoring Program, Fort Monmouth, Building 2567, Fort Monmouth, New Jersey (Letter Report), ATC Associates, May 2000

May 19, 2000

New Jersey Department of Environmental Protection
Bureau of Federal Case Management
CN 028
401 East State Street
Trenton, New Jersey 08625-1454

RE: Results of Long-Term Groundwater Monitoring Program
Fort Monmouth, Building 2567
Fort Monmouth, New Jersey
NJDEP Case #89-12-12-1442 and #91-08-27-1414

Dear Mr. Ian R. Curtis

ATC Associates, Inc. (ATC), on behalf of Fort Monmouth, presents in this letter, a summary report describing the results of the long-term monitoring program conducted for the investigation of the former underground storage tank (UST) system at Building 2567 at Fort Monmouth, New Jersey. Provided below is a brief site history and summary of previous investigations, excerpted from the *Site Investigation Report* dated January 1995, prepared by Weston for the Fort Monmouth, Building 2567. The site history and summary of previous investigations is followed by a description of the results of the long-term monitoring program to date.

Site History

Building 2567 is located off Laboratory Road in the Charles Wood area of Fort Monmouth. A site map detailing the former UST locations is provided as Figure 1. Building 2567 is used as the installation gas station. On 12 December 1989, the New Jersey Department of Environmental Protection (NJDEP) Hotline was contacted due to a suspected release at the subject facility. The facility was assigned NJDEP case #89-12-12-1442. The release was investigated by performing a tightness test on 30 January 1990. The suspected line passed the test.

On 15 and 16 January 1991, tightness tests were performed on the facility's USTs. One UST failed. The NJDEP Hotline was contacted and the site was assigned case #91-08-27-1414. In response to the suspected release, four groundwater monitoring wells (MW-1 to MW-4) were installed at the subject facility on 9 October 1991. Groundwater was encountered between 2.5 to 5 feet bgs. Subsequent monitoring events indicated the groundwater flow direction was to the southeast.

Groundwater samples were collected from the four monitoring wells on 10 December 1991. Analysis for volatile organic compounds with a library search of fifteen tentatively identified compounds (VO+10) and total lead indicated no compounds were detected above the NJDEP Groundwater Quality Standards (GWQS), except for benzene, 1,2-dichloroethene, total xylenes, and methylene chloride.

The four monitoring wells were subsequently sampled on 26 October 1992, 21 April 1993, 3 February 1994, and 31 March 1994. Analytical results from these sampling events indicated that concentrations of lead, benzene, total xylenes, and methylene chloride were detected above the NJDEP GWQS.

On 2 to 5 February 1993, the four subject USTs were closed according to NJDEP regulations. Based on field screening, approximately 936 cubic yards of potentially impacted soils were removed from the site. Groundwater was encountered during excavation activities at approximately 7 feet below the ground surface (bgs).

On 2 February 1993 and 24 February 1993, soil samples were collected from the excavation area. Analysis for total petroleum hydrocarbons (TPH) and lead indicated no samples reported concentrations above the NJDEP GWQS. However, thirteen of the twenty-three samples reported volatile organic compounds above the NJDEP GWQS. Concentrations of xylenes, benzene, and ethylbenzene were detected above the NJDEP GWQS.

On 23 September 1994, an additional monitoring well (MW-5) was installed downgradient from the site.

The Site Investigation Report in January 1995 recommended no further action for the soils due to source removal including approximately 936 cubic yards of soil and the excavation was backfilled with clean fill and a capped with asphalt reducing the potential for residual soil contaminants to leach into the groundwater. The report recommended further groundwater monitoring to determine flow patterns on the site.

Results of the Long-Term Monitoring Program

As part of the long-term monitoring program for Building 2567, the five existing monitoring wells (MW-1 through MW-5) were sampled on 5 May 1995, 15 August 1995, 21 November 1995, 20 February 1996, 7 January 1997 and 11 April 1997. Prior to sampling, each well was gauged and groundwater elevations were then calculated from depth-to-water measurements. Groundwater elevation data are summarized in Table 1, located in Appendix A of this report. A groundwater elevation contour map showing groundwater flow direction based on the most recent groundwater elevation measurements (April 1997) is provided as Figure 1, located in Appendix A. Groundwater flow direction was determined to be to the southeast. This groundwater flow direction has remained consistent throughout the monitoring period. A groundwater sampling summary is provided in Appendix A as Table 2. After gauging each well, the wells were purged and sampled. All sampling procedures were conducted in accordance with the

NJDEP Field Sampling Procedures Manual. The samples were analyzed for VO+15 using EPA Method 624 and total lead.

The analytical results from each sampling event were compared to the NJDEP Groundwater Quality Standards (GWQS). Each constituent that exceeded the established GWQS was then compared to its maximum background concentration, as identified in the 1995 *Site Investigation Report* prepared by Weston.

A review of the historical groundwater analytical results indicates that concentrations of benzene, xylenes, methyl tertiary butyl ether (MTBE), and methylene chloride have been detected during these sampling events above the NJDEP GWQS. The highest concentrations have historically been detected in samples collected from MW-3. Methylene chloride has been detected, however, methylene chloride is commonly found as a laboratory contaminant and was also observed in quality control blanks. Concentrations of benzene in samples collected from MW-3 have been decreasing from 94 micrograms per liter (μg/L) in May 1995 to not detected in April 1997. The groundwater analytical data, included in Attachment B, is summarized in Attachment A, Tables 3 through 8.

ATC, on behalf of Fort Monmouth, recommends that a determination be made to obtain a conditional No Further Action (NFA) with a Classification Exception Area (CEA). Based on the relatively low concentrations present in the groundwater at the subject site and the lack of potential receptors, ATC believes this site qualifies for a conditional NFA with a CEA. According to the NJDEP document titled "Final Guidance on Designation of Classification Exception Areas", four criteria are necessary to obtain a conditional NFA with a CEA in UST cases. The criteria are as follows:

- Source and source area are remediated (i.e. no soils contamination above the site-specific impact to groundwater criteria and no product remaining);
- Decreasing groundwater contaminant trends are established based upon site-specific groundwater monitoring and a sound technical decision can be made to predict the duration it will take to meet the GWQS;
- Monitoring of groundwater clearly indicates that contaminants have not and will not migrate beyond given boundaries; and
- No receptors are at risk and public water supply is available.

The site may qualify for a conditional NFA with a CEA due to the following:

- The source and impacted soils in the source area have been removed;
- Concentrations of benzene in MW-3 have decreased from the initial concentration of 2,100 μg/L (12/10/91) to not detected (04/11/97);

- CEA boundaries have not been determined, however, ATC believes that contaminants will not migrate beyond given boundaries based on historical data. CEA boundaries need to be determined based on further aquifer characterization, i.e. hydraulic gradient and conductivity;

- No receptors have been identified to date.

If you have any questions or concerns regarding this summary report, please feel free to contact me at (609) 386-8800.

Sincerely,
ATC Associates Inc.

Peter Niculescu
Senior Project Geologist

Edward S. Curry
Project Geologist

Enclosures: Appendix A – Tables and Figures
Appendix B – Analytical Data Reports

cc: Project File

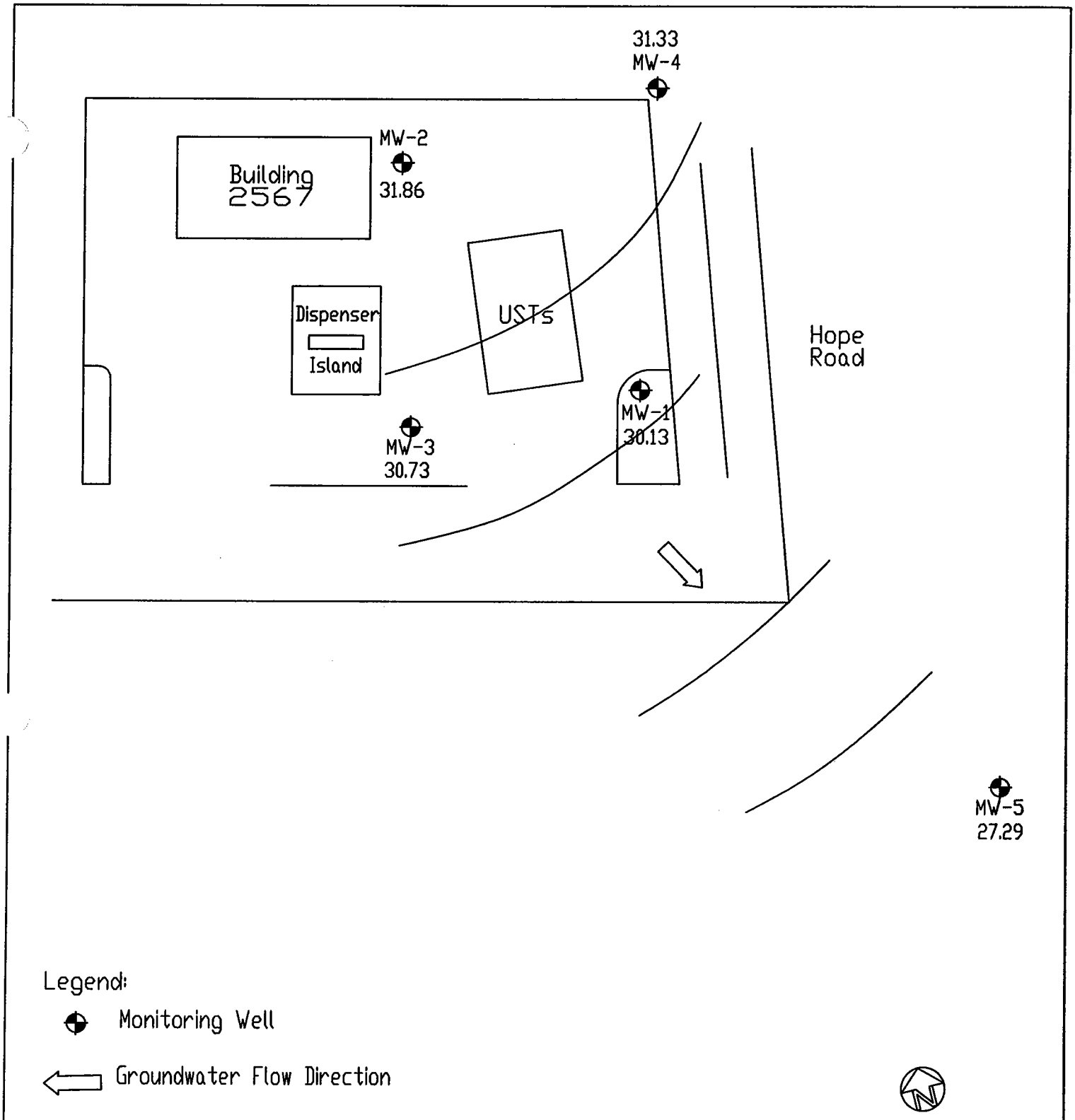


FIGURE 1 GROUNDWATER CONTOUR MAP (04/11/97)

Site Address: U.S. Army Fort Monmouth, Charles Wood Area Building 2567 Fort Monmouth, New Jersey	ATC Associates, Inc. Three Terri Lane, Burlington, New Jersey 08016
ent: U.S Army Fort Monmouth, NJ Directorate of Public Works	
ATC Project Number: 68.02711.0001	Scale: 1" = 40'

TABLE 1
GROUNDWATER ELEVATIONS
Fort Monmouth, Charles Wood Area
Site 2567

Well ID/ Date	Casing Elevation (ft)	Depth to Water (ft)	Depth to Product (ft)	Groundwater Elevation (ft)
MW-1				
04/11/97	33.93	3.80	NA	30.13
01/07/97	33.93	3.75	NA	30.18
02/20/96	33.93	3.55	NA	30.38
11/21/95	33.93	3.60	NA	30.33
08/15/95	33.93	5.11	NA	28.82
05/25/95	33.93	4.36	NA	29.57
MW-2				
04/11/97	35.26	3.40	NA	31.86
01/07/97	35.26	3.30	NA	31.96
02/20/96	35.26	3.04	NA	32.22
11/21/95	35.26	3.00	NA	32.26
08/15/95	35.26	4.68	NA	30.58
05/25/95	35.26	4.03	NA	31.23
MW-3				
04/11/97	33.88	3.15	NA	30.73
01/07/97	33.88	3.15	NA	30.73
02/20/96	33.88	3.00	NA	30.88
11/21/95	33.88	3.00	NA	30.88
08/15/95	33.88	4.45	NA	29.43
05/25/95	33.88	3.69	NA	30.19
MW-4				
04/11/97	33.88	2.55	NA	31.33
01/07/97	33.88	2.15	NA	31.73
02/20/96	33.88	2.07	NA	31.81
11/21/95	33.88	2.22	NA	31.66
08/15/95	33.88	3.77	NA	30.11
05/25/95	33.88	3.08	NA	30.80
MW-5				
04/11/97	34.99	7.20	NA	27.79
01/07/97	34.99	7.30	NA	27.69
02/20/96	34.99	7.05	NA	27.94
11/21/95	34.99	6.30	NA	28.69
08/15/95	34.99	7.84	NA	27.15
05/25/95	34.99	7.59	NA	27.40

Notes:
NA - Not Applicable

TABLE 2
SAMPLING SUMMARY
Fort Monmouth, Charles Wood Area
Site 2567

Sample Identification	Laboratory Identification	Sample Date	Sample Time	Sample Matrix	Sample Analyses
Bldg. 2567 MW-1 2926925	95-24199	05/25/95	10:22	Groundwater	VO+15, Pb
Bldg. 2567 MW-2 2926926	95-24200	05/25/95	9:13	Groundwater	VO+15, Pb
Bldg. 2567 MW-3 2926947	95-24201	05/25/95	11:14	Groundwater	VO+15, Pb
Bldg. 2567 MW-4 2926948	95-24202	05/25/95	9:44	Groundwater	VO+15, Pb
Bldg. 2567 MW-5 2931783	95-24203	05/25/95	11:50	Groundwater	VO+15, Pb
Bldg. 2567 MW-1 2926925	95-36414	08/15/95	10:30	Groundwater	VO+15, Pb
Bldg. 2567 MW-2 2926926	95-36412	08/15/95	9:21	Groundwater	VO+15, Pb
Bldg. 2567 MW-3 2926947	95-36415	08/15/95	11:23	Groundwater	VO+15, Pb
Bldg. 2567 MW-4 2926946	95-36413	08/15/95	9:50	Groundwater	VO+15, Pb
Bldg. 2567 MW-5 2931788	95-36416	08/15/95	12:21	Groundwater	VO+15, Pb
Bldg. 2567 MW-1 2926925	95-54052	11/21/95	11:54	Groundwater	VO+15, Pb
Bldg. 2567 MW-2 2926926	95-54053	11/21/95	10:40	Groundwater	VO+15, Pb
Bldg. 2567 MW-3 2926947	95-54054	11/21/95	12:53	Groundwater	VO+15, Pb
Bldg. 2567 MW-4 2926948	95-54055	11/21/95	11:14	Groundwater	VO+15, Pb
Bldg. 2567 MW-5 2931783	95-54056	11/21/95	14:21	Groundwater	VO+15, Pb
2017.1 MW-1 2926925	96-8368	02/20/96	11:15	Groundwater	VO+15, Pb
2017.1 MW-2 2926926	96-8369	02/20/96	10:00	Groundwater	VO+15, Pb
2017.3 MW-3 2926947	96-8370	02/20/96	12:10	Groundwater	VO+15, Pb
2017.4 MW-4 2926948	96-8371	02/20/96	10:34	Groundwater	VO+15, Pb
2017.5 MW-5 2931783	96-8372	02/20/96	12:40	Groundwater	VO+15, Pb
Bldg. 2567 MW-1	2258.7	01/07/97	15:05	Groundwater	BTEX, PB
Bldg. 2567 MW-2	2258.5	01/07/97	11:45	Groundwater	BTEX, PB
Bldg. 2567 MW-3	2258.6	01/07/97	14:25	Groundwater	BTEX, PB
Bldg. 2567 MW-4	2258.3	01/07/97	10:30	Groundwater	BTEX, PB
Bldg. 2567 MW-5	2258.4	01/07/97	11:05	Groundwater	BTEX, PB
Bldg. 2567 MW-1	2446.06	04/11/97	14:20	Groundwater	VO+15, Pb
Bldg. 2567 MW-2	2442.05	04/11/97	12:00	Groundwater	VO+15, Pb
Bldg. 2567 MW-3	2442.07	04/11/97	14:45	Groundwater	VO+15, Pb
Bldg. 2567 MW-4	2442.03	04/11/97	10:30	Groundwater	VO+15, Pb
Bldg. 2567 MW-5	2442.04	04/11/97	11:00	Groundwater	VO+15, Pb

Notes:

NA - Not Available

VO+15 - Volatile organic compounds with a library search of fifteen tentatively identified compounds

Pb - Total lead

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - 05/25/95
Fort Monmouth, Charles Wood Area
Site 2567

Sample Identification Lab Identification	**MW-1 95-24199**	**MW-2 95-24200**	**MW-3 95-24201**	**MW-4 95-24202**	**MW-5 95-24203**	**NJDEP GWQS**
Total Lead	<2.5	<2.5	2.7	<2.5	4.0	10

Detected Volatile Organic Compounds	**MW-1 95-24199**	**MW-2 95-24200**	**MW-3 95-24201**	**MW-4 95-24202**	**MW-5 95-24203**	**NJDEP GWQS**
Methylene Chloride	1.5B	.90B	**21B**	1.0B	1.2B	3
Benzene	ND	ND	**94**	ND	ND	1
Toluene	0.70	ND	3.8	ND	ND	1,000
Ethylbenzene	ND	1	6.3	ND	ND	700
Xylenes (total)	0.50	6.5	**190**	ND	ND	40
Methyl Tertiary Butyl Ether	**110**	3.1	**400**	ND	ND	70
Tertiary Butyl Alcohol	930	ND	ND	ND	ND	NA
Isopropylbenzene	ND	1.1	17	ND	ND	NA
n-Propylbenzene	ND	1.3	13	ND	ND	NA
1,3,5-Trimethylbenzene	ND	1.0	12	ND	ND	NA
1,2,4-Trimethylbenzene	ND	8.8	8.6	ND	ND	NA
Naphthalene	ND	11.0	9.4	ND	ND	NA
# of TICs	2	13	14	0	0	
TIC Concentration (total)	2	35	154	ND	ND	NA

Notes:
1. All results reported in micrograms per liter (µg/L).
2. All results exceeding NJDEP GWQS are denoted in bold.

NJDEP- New Jersey Department of Environmental Protection
GWQS- Groundwater Quality Standard
TIC- Tentatively identified compound
B- Compound detected in blank
ND- Not detected
NA- Not applicable

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - 08/15/95
Fort Monmouth, Charles Wood Area
Site 2567

Sample Identification Lab Identification	MW-1 95-36414	MW-2 95-36412	MW-3 95-36415	MW-4 95-36413	MW-5 95-36416	NJDEP GWQS
Total Lead	3.3	5.6	<2.5	2.6	5.0	10

Detected Volatile Organic Compounds	MW-1 95-36414	MW-2 95-36412	MW-3 95-36415	MW-4 95-36413	MW-5 95-36416	NJDEP GWQS
Methylene Chloride	1.3B	1.3B	**25B**	1.3B	1.2B	3
Benzene	ND	ND	**89**	ND	ND	1
Toluene	0.7	ND	ND	ND	ND	1,000
Ethylbenzene	ND	0.6	8.4	ND	ND	700
Xylenes (total)	0.5	5.3	**360**	ND	ND	40
Methyl Tertiary Butyl Ether	29	2.5	**670**	ND	ND	70
Tertiary Butyl Alcohol	930	ND	ND	ND	ND	NA
Isopropylbenzene	ND	1.1	30	ND	ND	NA
n-Propylbenzene	ND	1.3	25	ND	ND	NA
1,3,5-Trimethylbenzene	ND	1.0	38	ND	ND	NA
1,2,4-Trimethylbenzene	ND	8.2	33	ND	ND	NA
Naphthalene	ND	11.0	21	ND	ND	NA
# of TICs	2	15	15	0	0	
TIC Concentration (total)	2	41	298	ND	ND	NA

Notes:

1. All results reported in micrograms per liter (µg/L).
2. All results exceeding NJDEP GWQS are denoted in bold.

NJDEP- New Jersey Department of Environmental Protection
GWQS- Groundwater Quality Standard
TIC- Tentatively identified compound
B- Compound detected in blank
ND- Not detected
NA- Not applicable

TABLE 5
GROUNDWATER ANALYTICAL RESULTS - 11/21/95
Fort Monmouth, Charles Wood Area
Site 2567

Sample Identification Lab Identification	**MW-1 95-54052**	**MW-2 95-54053**	**MW-3 95-54054**	**MW-4 95-54055**	**MW-5 95-54056**	**NJDEP GWQS**
Total Lead	<3.0	<3.0	<3.0	<3.0	<3.0	10

Detected Volatile Organic Compounds	**MW-1 95-54052**	**MW-2 95-54053**	**MW-3 95-54054**	**MW-4 95-54055**	**MW-5 95-54056**	**NJDEP GWQS**
Methylene Chloride	**36B**	.60B	**18B**	.60B	ND	3
Benzene	ND	ND	**35**	ND	ND	1
Toluene	ND	ND	ND	ND	ND	1,000
Ethylbenzene	ND	ND	ND	ND	ND	700
Xylenes (total)	ND	3.6	**91**	ND	ND	40
Methyl Tertiary Butyl Ether	**80**	1.6	**360**	ND	ND	70
Tertiary Butyl Alcohol	860	ND	46	ND	ND	NA
Isopropylbenzene	ND	1.0	14	ND	ND	NA
n-Propylbenzene	ND	1.1	ND	ND	ND	NA
1,3,5-Trimethylbenzene	ND	0.6	7.7	ND	ND	NA
1,2,4-Trimethylbenzene	ND	4.6	5.0	ND	ND	NA
Naphthalene	ND	7.3	6.6	ND	ND	NA
# of TICs	2	13	9	3	2	
TIC Concentration (total)	80	30	155	4	2	NA

Notes:

1. All results reported in micrograms per liter (µg/L).
2. All results exceeding NJDEP GWQS are denoted in bold.

NJDEP- New Jersey Department of Environmental Protection
GWQS- Groundwater Quality Standard
TIC- Tentatively identified compound
B- Compound detected in blank
ND- Not detected
NA- Not applicable

TABLE 6
GROUNDWATER ANALYTICAL RESULTS - 02/20/96
Fort Monmouth, Charles Wood Area
Site 2567

Sample Identification Lab Identification	MW-1 96-8368	MW-2 96-8369	MW-3 96-8370	MW-4 96-8371	MW-5 96-8372	NJDEP GWQS
Total Lead	4.0	<3.0	6.0	<3.0	<3.0	10

Detected Volatile Organic Compounds	MW-1 96-8368	MW-2 96-8369	MW-3 96-8370	MW-4 96-8371	MW-5 96-8372	NJDEP GWQS
Methylene Chloride	2.1B	2.0B	2.4B	1.2B	.80B	3
Benzene	ND	ND	**40**	ND	ND	1
Toluene	ND	ND	1.0	ND	ND	1,000
Ethylbenzene	ND	ND	4.5	ND	ND	700
Xylenes (total)	ND	4.2	**70**	ND	ND	40
Methyl Tertiary Butyl Ether	**100**	2.0	**250**	ND	ND	70
Tertiary Butyl Alcohol	780	ND	43	ND	ND	NA
Isopropylbenzene	ND	1.0	13	ND	ND	NA
n-Propylbenzene	ND	1.1	8.3	ND	ND	NA
1,3,5-Trimethylbenzene	ND	0.8	4.7	ND	ND	NA
1,2,4-Trimethylbenzene	ND	6.2	1.4	ND	ND	NA
Naphthalene	ND	7.2	5.4	ND	ND	NA
# of TICs	3	14	15	0	1	
TIC Concentration (total)	3	30	164	ND	1	NA

Notes:
1. All results reported in micrograms per liter (µg/L).
2. All results exceeding NJDEP GWQS are denoted in bold.

NJDEP- New Jersey Department of Environmental Protection
GWQS- Groundwater Quality Standard
TIC- Tentatively identified compound
B- Compound detected in blank
ND- Not detected
NA- Not applicable

TABLE 7
GROUNDWATER ANALYTICAL RESULTS - 01/07/97
Fort Monmouth, Charles Wood Area
Site 2567

Sample Identification Lab Identification	**MW-1 2258.7**	**MW-2 2258.5**	**MW-3 2258.6**	**MW-4 2258.3**	**MW-5 2258.4**	**NJDEP GWQS**
Total Lead	1.4	0.8	1.2	ND	ND	10

Detected Volatile Organic Compounds	**MW-1 2258.7**	**MW-2 2258.5**	**MW-3 2258.6**	**MW-4 2258.3**	**MW-5 2258.4**	**NJDEP GWQS**
Benzene	ND	ND	**19.93**	ND	ND	1
Toluene	ND	ND	0.91	ND	ND	1,000
Ethylbenzene	ND	ND	0.15	ND	ND	700
Xylenes (total)	ND	ND	28.49	ND	ND	40

Notes:
1. All results reported in micrograms per liter (µg/L).
2. All results exceeding NJDEP GWQS are denoted in bold.

NJDEP- New Jersey Department of Environmental Protection
GWQS- Groundwater Quality Standard
ND- Not detected

TABLE 8
GROUNDWATER ANALYTICAL RESULTS - 04/11/97
Fort Monmouth, Charles Wood Area
Site 2567

Sample Identification Lab Identification	**MW-1 2446.06**	**MW-2 2446.05**	**MW-3 2446.07**	**MW-4 2446.03**	**MW-5 2446.04**	**NJDEP GWQS**
Total Lead	4.0	<3.0	6.0	<3.0	<3.0	10

Detected Volatile Organic Compounds	**MW-1 2446.06**	**MW-2 2446.05**	**MW-3 2446.07**	**MW-4 2446.03**	**MW-5 2446.04**	**NJDEP GWQS**
None Detected	ND	ND	ND	ND	ND	NA

Notes:
1. All results reported in micrograms per liter (µg/L).
2. All results exceeding NJDEP GWQS are denoted in bold.

NJDEP- New Jersey Department of Environmental Protection
GWQS- Groundwater Quality Standard
ND- Not detected
NA- Not applicable

APPENDIX D

Site Investigation Report – Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, Roy F. Weston, Inc., December 1995

4.2 MAIN POST

Subsection 4.2 presents a description of each Main Post site, the sampling rationale, and the results of sampling activities. The sites and the sampling effort are summarized in Table 4.2-1. Additional historical information on each site may be obtained from the *Investigation of Suspected Waste Sites at Fort Monmouth, New Jersey*, 1993.

This subsection also summarizes the results of the sediment, surface-water, soil, and groundwater sampling program that was implemented to characterize site conditions on the Main Post, as identified in the WESTON report titled *Site Investigation, Chemical Data Acquisition Plan* (CDAP). A total of 4 sediment and 8 surface-water samples were taken on the Main Post. In addition, a total of 15 soil borings and 29 monitor wells were installed on Main Post sites. Soil and groundwater samples were collected from the borings and monitor wells and were analyzed for compounds determined to be characteristic of the wastes associated with each area, i.e., TCL and TAL analytes (Tables 3.6-1 and 3.8-1).

The field effort was conducted in accordance with the scope and procedures outlined in the CDAP. However, there were slight differences, which are summarized in Table 4.2-2. Appendix D presents the analytical results of the Main Post sampling activities. Detailed information regarding the specific sampling protocols for each site is provided in the subsections that follow. In addition to the results of groundwater and soil analyses, the lithologic descriptions and water-level information are used to provide a hydrogeologic interpretation of the site, where appropriate.

Figure 4.2-1 shows the location of the 13 Main Post sites discussed in this subsection.

4.2.1 Background Samples

The background sample locations were selected prior to the initiation of field activities in areas believed to be unaffected by base activities. These locations were as specified in the

Table 4.2-1

Site Investigation Summary — Main Post

Site Number	Site Type	Description	Potential Waste/ Contaminants	Previous Sampling Activities[a]	Investigation Activities
M-2	Landfill	Operated 1964-1968. Currently used for leaf composting and to store wood chips. Debris protrudes from bank of Mill Creek. Was unfenced — covered with soil and gravel from Earle.	Domestic and industrial waste, oil in cans, filters, soot, and building rubble.	NJPDES sampling upstream (SW-1) and downstream (SW-2) on Mill Creek. Detected VOCs, metals, and inorganics.	Installed and sampled 3 monitor wells. Sampled surface water at the NJPDES locations (M2SW-1 and M2SW-2) and a new upstream surface-water location (SS-B1). Analyzed for TCL +30[b]/TAL/CN. Tidal water-level monitoring.
M-3	Landfill	Operated 1959-1964. Was fenced; had skeet shooting range. Burned wood debris. Had tear gas training in tent. Currently grass-covered; no visible debris.	Domestic and industrial waste. Wood and coal ash from stoves, boiler.	NJPDES sampling locations SS-3, SS-4. Detected VOCs, metals, and inorganics.	Sampled surface water at the NJPDES locations (M10SW-1 and M6SW-1) and upstream surface-water sampling location (SS-B2). Used GPR and magnetics to define extent of landfill. Installed and sampled 3 monitor wells. Analyzed for TCL +30/TAL/CN.
M-4	Landfill	Operated 1956 only. Currently grass-covered; no visible debris.	Building rubble.	None.	Installed and sampled 3 monitor wells. Analyzed for TCL +30/TAL/CN.
M-5	Landfill	Operated 1952-1959. Currently grass-covered; no visible debris.	Domestic and industrial waste.	NJPDES sampling locations SS-5, SS-6. Detected VOCs, metals, and inorganics.	Installed and sampled 2 monitor wells. Analyzed for TCL +30/TAL/CN/sulfate.
M-6	Burning area	Located on Landfill M-3. Operated until 1970s. Burned general trash. Currently no visible contamination.	General trash.	None.	See M-3.
M-8	Landfill	Operated 1962-1981. Currently has leaf-composting operation. Was fenced and controlled during operation.	Domestic and industrial waste including pesticide/herbicide cans, batteries, asbestos, sludge from STP, and miscellaneous chemicals.	Four monitor wells, NJPDES sampling location SS-7.	Abandoned existing wells and piezometers; installed 4 new monitor wells. Analyzed for TCL +30/TAL/CN/NH_3/sulfate. Tidal water-level monitoring.
M-12	Landfill	Date of operation unknown. Located across Husky Brook from M-14.	Domestic and industrial waste, automobiles, oil, and building rubble.	NJPDES sampling locations SS-8, SS-9, and SS-10.	Used GPR and magnetics to locate landfill and define boundaries. Installed 3 monitor wells. Analyzed for TCL +30/TAL/CN. Tidal monitoring with M-14.
M-14	Landfill	Operated from 1965-1966. Has NJPDES permit.	Building rubble and dredgings from Husky Brook Lake.	NJPDES sampling upstream and downstream on Husky Brook Creek, SS-8, SS-9, and SS-10.	Used GPR and magnetics in western area. Installed and sampled 3 monitor wells for TCL +30/TAL/CN. Tidal monitoring with M-12. Sampled M14SW-8 and M14SW-9 surface-water locations.

Table 4.2-1

Site Investigation Summary — Main Post (Continued)

Site Number	Site Type	Description	Potential Waste/ Contaminants	Previous Sampling Activities[a]	Investigation Activities
M-15	Water tank	Used for fire-fighting water. Built in 1940s. Paint chips on ground surrounding tank. Stressed vegetation around base of tank.	Lead.	None.	Collected 2 surface soil samples. Analyzed for TCL SVOCs, TAL, and pesticides.
M-16	Former Pesticide Storage Bldg. 498	Misidentified as Bldg. 167 in 1980 report. Building 498 used for pesticide control shop in the 1940s and 1950s: disposal to sink, which discharged to sanitary sewer. No apparent outside disposal.	Pesticides and herbicides.	None.	Collected 4 soil samples from 0 to 6 inches bgs. Installed soil boring and 1 monitor well. Analyzed for TCL +30. Analyzed for TAL in SB-01.
M-18	Former training area	Army Signal School. Diesel and gasoline generators.	Diesel and oil spilled on ground. PAHs, VOCs, TPHs, lead.	None.	Conducted geophysical surveys, completed 9 soil borings, sampled 6 to 12 inches or 12 to 18 inches, stained areas, and/or just above water table. Installed 2 monitor wells in soil borings. Sampled soil for VOCs and TPHs. In addition, sampled for SVOCs and TAL at SB-06 only. Sampled groundwater for TCL +30/TAL/TPHs.
AOC-3	Former sewage treatment plant	Operated 1941-1975. Sludge drying bed located on concrete base. Sludge transported to golf course and landfills. 1935 map shows pistol range on this location.	Heavy metals, cyanide, and pesticides.	Monitor wells installed west of site. Sludge sampled in 1981; no heavy metals detected.	Sampled outfall sediments and 2 soil borings in sludge bed area for TCL + 30/TAL/CN.
New Site, Not Noted in IA Report	Former treatment plant	Operated until 1941. Located approximately where Bldg. 250 is today. Labeled on 1935 map.	Heavy metals.	None.	Sampled outfall sediment for metals.
PCB Trans-formers	Buildings (see Table 4.2-22)	Several transformers in this area were tested for PCBs in 1990. Those with PCBs >500 ppm were removed or remediated.	PCBs	Transformers sampled — several > 500 ppm. See Table 4.2-22.	Sampled PCB transformer locations.

[a]Results of previous investigation were presented on the report titled *Investigation of Suspected Waste Sites at Fort Monmouth, New Jersey* (1993).
[b]TCL +30 = Target Compound List; includes volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, and polychlorinated biphenyls (PCBs).

Table 4.2-2

Differences Between the Proposed and Actual Work at Main Post

Site	Differences
M-15	Soil samples from SS-01 and SS-02 were collected and analyzed for TCL SVOCs; however, TCL SVOC analyses were not proposed in the CDAP.
M-16	Soil samples from SB-01 were collected and analyzed for TAL metals; however, TAL metals analyses were not proposed in the CDAP.
M-18	Installed 9 soil borings instead of 12, and 2 monitor wells instead of 3 because marshy conditions made some of the planned sampling locations inaccessible. Sampled one existing monitor well in addition to the 2 newly installed wells. In eight of nine soil borings, no soil staining was observed so no SVOC analysis was performed as per the CDAP.

Investigation of Suspected Waste Sites at Fort Monmouth, New Jersey, 1993, which was approved by NJDEP. Background characterization data were collected to evaluate soil, groundwater, surface water, and sediment in areas of the base considered to be representative of natural materials or upgradient conditions.

Sediment and surface-water samples were taken upgradient of the Main Post on Lafetra Creek and Mill Creek. Five background soil borings, which were converted into monitor wells, were installed and two discrete soil intervals were sampled from each boring. Two rounds of groundwater samples were collected from each location. Soil and groundwater samples were analyzed for the parameters listed in Section 3, Tables 3.6-1 and 3.8-1. Background monitor wells were labeled as "B" wells, i.e., MW-01B. Main Post background locations are shown in Figure 4.2-2 and labeled B-1, B-2, etc. Monitor well MW-01B was installed at background location B-1 and a similar practice was followed at the other background locations.

4.2.1.1 Hydrogeologic Interpretation

The five monitor wells installed at the Main Post were installed to depths ranging from 14 ft below ground surface (bgs) to 26 ft bgs. Total depths were determined during drilling and were based on the depth at which water was encountered. The lithology and depth to water varied between background locations, as presented on the lithologic logs in Appendix A. Monitor wells were screened across the water table.

4.2.1.2 Soil Sampling Results

As outlined in the CDAP, soil samples were collected from two discrete intervals: 0 to 2 ft bgs and between 2 and 10 ft bgs or to groundwater. Soil-boring depths varied among the background locations, depending on the depth to groundwater. The compounds detected in background soil samples at the specific sampling intervals, with the corresponding sample identifications, are presented in Appendix D. Table 4.1-6 summarizes the maximum concentrations detected in background soil at the Main Post and presents published maximum concentrations for Monmouth County.

VOCs

VOCs were analyzed for but were not detected in Main Post background soil samples.

SVOCs

A total of 19 SVOCs were detected in Main Post background soil samples (Table 4.1-6).

Pesticides/PCBs

Three pesticides (4,4'-DDE, 4,4-DDD, and 4,4'-DDT) were detected above the laboratory quantitation limit in Main Post background soils.

Metals

A total of 19 metals were detected above laboratory quantitation limits in Main Post background soils.

Cyanide

Cyanide was not detected in any of the Main Post background soil samples.

4.2.1.3 Groundwater Sampling Results

Two rounds of groundwater samples were collected at the Main Post. The compounds detected in groundwater samples from the individual sampling rounds, with the corresponding sample identifications, are listed in Appendix D. Table 4.1-6 summarizes the maximum background concentrations detected in groundwater at the Main Post.

VOCs

VOCs were not detected in any of the background samples from the Main Post.

SVOCs

Two SVOCs [bis(2-ethylhexyl) phthalate and chrysene] were detected in concentrations above or below the laboratory quantitation limits. However, bis(2-ethylhexyl) phthalate is a common laboratory contaminant.

Pesticides/PCBs

One pesticide (heptachlor epoxide) was detected in the background groundwater samples in a concentration below the laboratory quantitation limit. PCBs were not detected at the background locations.

Metals

As indicated in Table 4.1-6, 22 metals (total) were detected in concentrations above laboratory quantitation limits in background groundwater at the Main Post.

Cyanide

Cyanide was not detected in the background groundwater at the Main Post.

4.2.1.4 Surface-Water Sampling Results

Two surface-water samples collected at locations upgradient from on-site drainage (SS-B1 and SS-B2) were selected as background samples (Figure 4.2-2). The analytes detected in background surface water and corresponding sample identifications are presented in Appendix D.

Table 4.1-8 summarizes the maximum detected concentrations in total and soluble background surface water at the Main Post.

VOCs

VOCs were analyzed for but not detected in background surface water (total) at the Main Post. VOC analysis was not performed for the soluble background surface-water samples.

SVOCs

SVOCs were analyzed for but not detected in background surface water (total) at the Main Post. SVOC analysis was not performed for the soluble background surface-water samples.

Metals

A total of 13 metals were detected above laboratory quantitation limits at the Main Post. Similarly, 11 metals were detected above laboratory quantitation limits in the filtered (soluble) background surface-water samples (Table 4.1-8).

4.2.1.5 Sediment Sampling Results

Two sediment sampling locations at the Main Post, SS-B1 and SS-B2, were selected as background because they are located upgradient of on-site drainage (Figure 4.2-2). Analytes detected in background sediment and corresponding sample identifications are presented in Appendix D. Table 4.1-8 summarizes the maximum detected concentrations in background sediment at the Main Post.

VOCs

Four VOCs (acetone, 2-butanone, 1,2-dichloroethene, and vinyl chloride) were detected above the laboratory quantitation limits in Main Post background sediments. However, acetone and 2-butanone are common laboratory contaminants.

SVOCs

One SVOC, di-n-butyl phthalate, was detected in concentrations above the laboratory quantitation limits in Main Post background sediment. Benzo(a)pyrene was the only polyaromatic hydrocarbon (PAH) compound detected in concentrations above the laboratory quantitation limits in Main Post background sediment.

Pesticides

Pesticides were analyzed for but not detected in background sediments at the Main Post.

Metals

A total of 19 metals in background sediment at the Main Post were detected above laboratory quantitation limits (see Table 4.1-8).

APPENDIX E

Boring Logs and Monitoring Well Construction Records

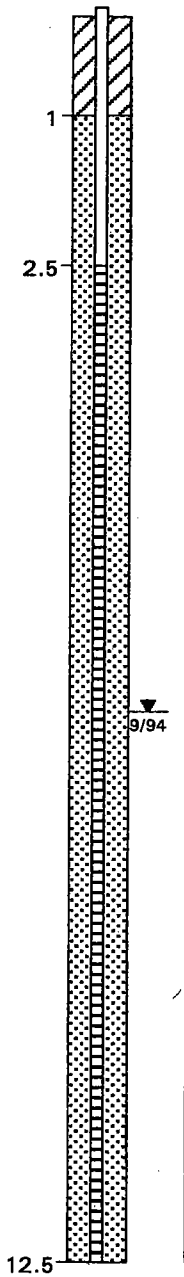
U.S. ARMY
FORT MONMOUTH
SELFM PW EV

LOG OF BORING 2567-mw5

Produced for Charles Appleby

Project Name	: BLDG. 2567	Completion Date	: 9/23/94
NJDEP Case #	: 91-8-27-1414	Northing	: N 533126.613
Logged By	: TYREE INC.	Easting	: E 2163949.888
Start Date	: 9/23/94	Driller	: M. Beck

29-31783
ELEV: 34.99



Depth in Feet	DESCRIPTION	GRAPHIC	USCS	Samples	Blows/Ft
0	Topsoil, vegetation				
1	Brown fine sand		SW		
2	Black soft clay		CL		
2.5	Brown fine sands and silts		SM		
4	Gray medium sand with well rounded gravel		SP		

Well Construction Information

Well Construction

Date Completed	: 9/23/94
Hole Diameter	: 8 in
Drill Method	: HSA
Company Rep	: M. Beck

Well Casing

Material	: PVC
Diameter	: 4 in
Joints	: Threaded

Well Screen

Material	: PVC
Diameter	: 4 in
Joints	: Threaded
Opening	: 20 Slot
Sand Pack	: # 2 Morie Sand
Annulus Seal	: Bentonite/Portland : Tremmie

Well Screen

Material	: PVC
Diameter	: 4 in

NOTES

Well #1 is 2567 MW5

2-29-1996 C:\2567MW\GEO\2567 mw5.ge3

SERIAL # 41170

DWR 1001 (11/90)

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
TRENTON, NJ

Mail to:
NJDEPE
Bureau of Water Allocation
P.O. Box 029
Trenton, NJ 08625

MONITORING WELL PERMIT

VOID ONE YEAR AFTER APPROVAL BY THE D.E.P.E.

Permit No. 39-2108

Owner: U.S. Army - Fort Monmouth
Address: SELFM-PW-EV
Fort Monmouth New Jersey 07703

Driller: Tyree Organization, Ltd
Address: 1350 Centennial Ave, Suite 130
Burlington NJ 08016

Name of Facility: Bldg 2567
Address: Charles Wood
Fort Monmouth New Jersey

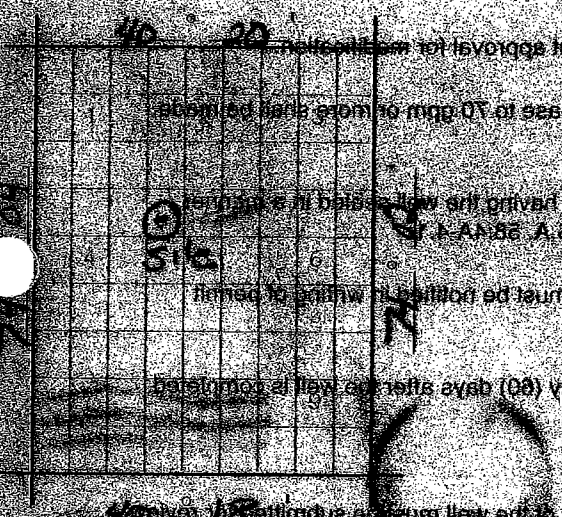
Diameter of Well(s)	4	Proposed Depth of Well(s)	15
Number of Wells Applied for (max. 10)	1 (one)	Will pumping equipment be installed? (YES [ ] NO [X])	
Type of Well (check one)	Monitoring	If yes, give pump capacity	N/A

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
		Fort Monmouth	Monmouth

State Atlas Map No. 29

Draw sketch of well(s) nearest roads, buildings, etc. with distances. Each well must be labeled with a name and/or number on the sketch.



1. This permit conveys no rights, either expressed or implied, to divert water.
2. Well permits submitted incomplete and/or illegible will be returned without approval for modification.
3. If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more will be allowed without prior approval of the Bureau of Water Allocation.
4. Once the well is abandoned, the owner will assume full responsibility for having the well sealed in a manner satisfactory to the Department, in accordance with the provisions of N.J.S.A. 58:4A-14.
5. This permit shall be valid for (1) year from date of approval. Department must be notified in writing of permit cancellation.
6. A well record must be filed with the Bureau of Water Allocation within sixty (60) days after the well is completed.
7. This permit is NONTRANSFERABLE.
8. If the use of the well is to be changed, a well permit for the proposed use of the well must be submitted for review and approval. The existing well permit number must be referenced on the application form.

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- [ ] Spill Site
- [ ] NJSRA Site
- [ ] CERCLA (Superfund) Site
- [ ] RCRA Site
- [X] Underground Storage Tank Site
- [ ] Operating Ground Water Permit Site
- [ ] Pesticides and Residuals Site
- [ ] Water and Hazardous Waste Enforcement Case
- [ ] Water Supply Aquifer Test Observation Well
- [x] Other (explain) Aquifer Evaluation

CASE I.D. Number: 91-8-27-1414 (Site Bldg. 2567)

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J.D.E.P.
AUG 3 1994
BUREAU OF WATER ALLOCATION

FOR D.E.P.E. USE

- [ ] Issuance of this permit is subject to the conditions attached. (see next page)
- [ ] For monitoring purposes only.
- [ ] The well(s) may not be completed with more than 25 feet of total screen or uncased borehole.

REVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS PERTAINING TO THIS PERMIT.

In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date: 7-25-94

Signature of Driller: [signature] License # 1421

Signature of Owner: [signature] SELFM-PW-EV

COPIES: Water Allocation — White and Pink; Health Dept. — Yellow; Owner — Blue; Driller — White

SERIAL # 016751

DWR-13M (10/96)

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

NJDEP
Bureau Water Allocation
P.O. Box 029
Trenton, NJ 08625-0029

Permit No. 294258

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Date Issued: APR 12 2000

Owner: C.J. Amy

Address: 173 Lincoln Ave
Elizabeth NJ

Name of Facility: Amy 2567

Address: 2567 Laboratory Rd
Elizabeth NJ

Driller: INLAND PUMPING SERVICES INC
935-939 FAIRMOUNT AVENUE
ELIZABETH, NJ 07201

Diameter of Well(s): 4

Number of Wells Applied for (max. 10): 2

Proposed Depth of Well(s): 15

Well pumping equipment installed: YES ☐ NO ☒

Type of Well (see reverse): Monitoring

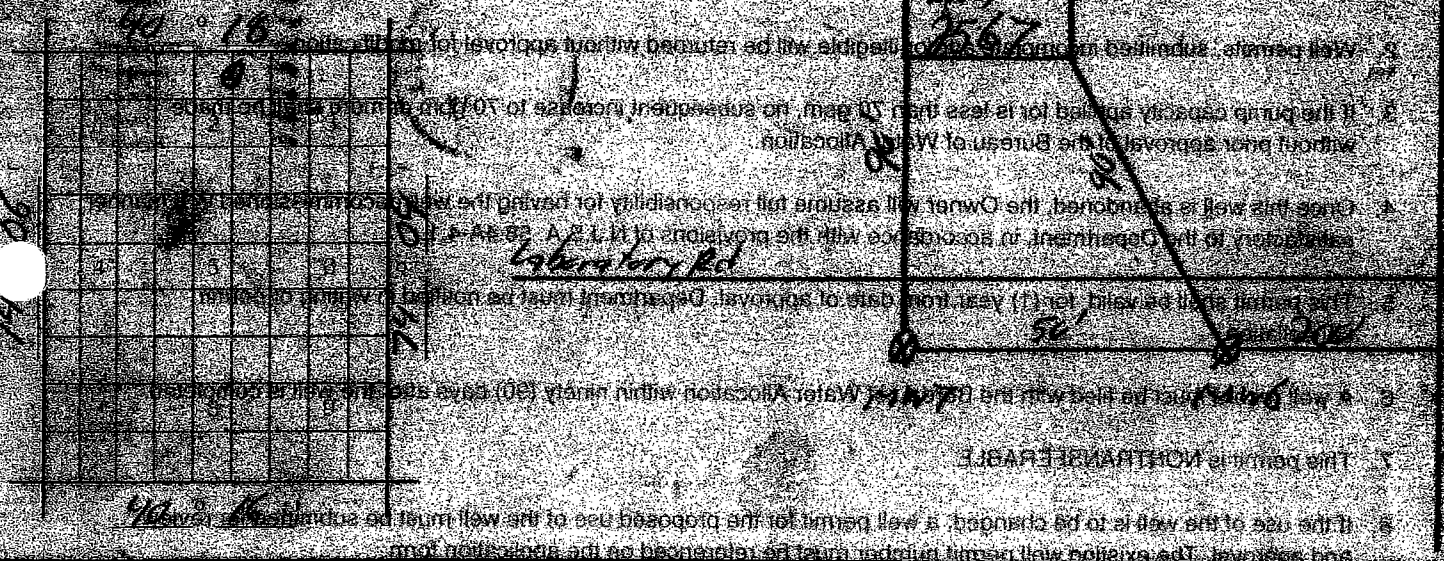
If Yes, give pump capacity: N/A

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
1004	229	Elizabeth	Union

State Atlas Map No.

Draw sketch of well(s) nearest roads, buildings, etc. with approximate distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ Spill Site
- ☐ NPL Site
- ☐ CERCLA (Superfund) Site
- ☐ RCRA Site
- ☒ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)

CASE I.D. Number

This Space for Approval Stamp

WELL PERMIT APPROVED
NJDEP
APR 12 2000
BUREAU OF WATER ALLOCATION

FOR DEP USE

☐ Issuance of this permit is subject to the conditions attached (see next page).

☒ For monitoring purposes only.

☒ The well(s) may not be completed with more than 25 feet of total screen or uncased borehole.

REVIEWED BY

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS PERTAINING TO THIS PERMIT.

In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date: 4-10-00

Signature of Driller: [signature]

Registration No. J7420

Signature of Owner: Vice President agent MAG

COPIES: Water Allocation — White; Health Dept. — Yellow; Owner — Blue; Driller — Pink

REC'D APR 14 2000

SERIAL # 016751

DWR-133M (10/96)

36

294258
294258

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

Mail to
NJDEP
Bureau Water Allocation
426
nton, NJ 08625-0426

Permit No.

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD.

Owner: U.S. Army
Address: 173 Riverside Av
Ft Monmouth NJ

Driller: INLAND POLLUTION SERVICES, INC.
Address: 935-939 FAIRMOUNT AVENUE
ELIZABETH, NJ 07201

Name of Facility: Bldg 2567
Address: 2567 Laboratory Rd
Ft. Monmouth NJ

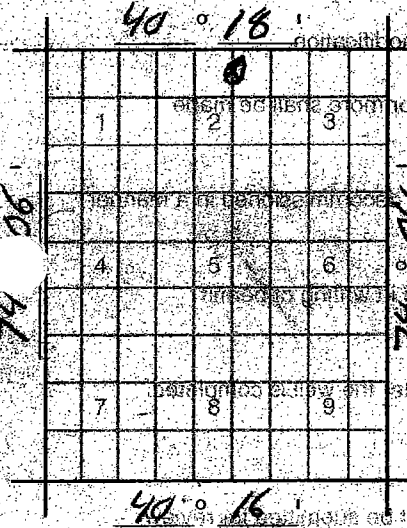
Diameter of Well(s)	4 inches	Proposed Depth of Well(s)	15 Feet
# of Wells Applied for (max. 10)	2	Will pumping equipment be installed?	YES ☐ NO ☑
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	N/A cumulative GPM

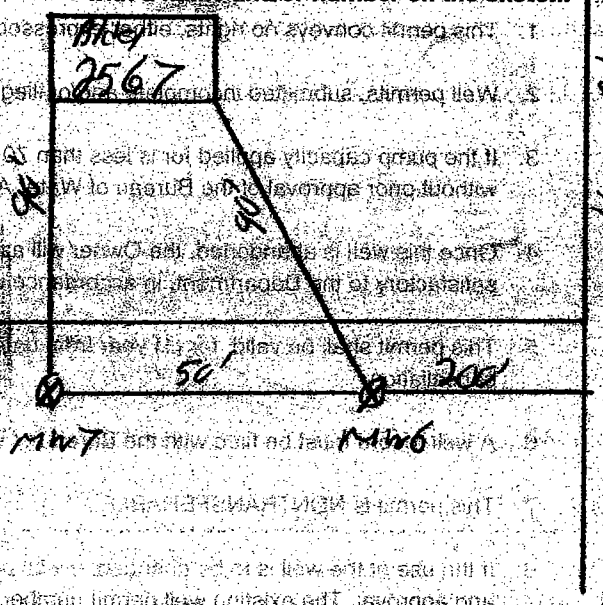
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
N/A	N/A	Tinton Falls	Monmouth

State Atlas Map No. 29

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.





RECEIVED
APR 26 2000
MONMOUTH COUNTY
REGIONAL HEALTH COMMISSION #1

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ Spill Site
- ☐ ISRA Site
- ☐ CERCLA (Superfund) Site
- ☐ RCRA Site
- ☑ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)

CASE I.D. Number

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J.D.E.P.
APR 12 2000
BUREAU OF WATER ALLOCATION

FOR D.E.P. USE
☐ Issuance of this permit is subject to the conditions attached. (see next page)
☑ For monitoring purposes only
☑ The well(s) may not be completed with more than 25 feet of total screen or uncased borehole.

VERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS PERTAINING TO THIS PERMIT.

In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date: 4-10-00 Signature of Driller: [signature] Registration No. U2420

Signature of Owner: Joe Falkenagent MKE

COPIES: Water Allocation — White Health Dept. — Yellow Owner — Blue Driller — White

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION

Name of Permittee: United States Army
Name of Facility: Fort Monmouth - Building No. 2567
Location: Fort Monmouth
New Jersey
NJPDES Permit No: NJ 29-26925

LAND SURVEYOR'S CERTIFICATION

Well Permit Number; As assigned by NJDEPE's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.		29-26925
Longitude (one tenth of a second):	West	74° 04' 46.1"
Latitude (one tenth of a second):	North	40° 17' 44.6"
Elevation of Top of Casing (cap off)		33.93
Distance from Top of Casing (cap off) to ground		0.21
Owner's Well Number (As shown in the application or Plans):		MW-1
Benchmark:		

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

William E. Telling

Professional Land Surveyor's Signature

William E. Telling, P.L.S.
Professional Land Surveyor's Name

SEAL

N.J.P.L.S. License No. 37211
Professional Land Surveyor's License #

(lak41\wp51\ftmonfmb.wet)

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION

Name of Permittee: United States Army
Name of Facility: Fort Monmouth - Building No. 2567
Location: Fort Monmouth
New Jersey
NJPDES Permit No: NJ 29-26925

LAND SURVEYOR'S CERTIFICATION

Well Permit Number; As assigned by NJDEPE's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing. 29-26925
Longitude (one tenth of a second): West 74° 04' 46.1"
Latitude (one tenth of a second): North 40° 17' 44.6"
Elevation of Top of Casing (cap off) 33.93
Distance from Top of Casing (cap off) to ground 0.21
Owner's Well Number (As shown in the application or Plans): MW-1
Benchmark:

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

William E. Telling

Professional Land Surveyor's Signature

William E. Telling, P.L.S.
Professional Land Surveyor's Name

SEAL

N.J.P.L.S. License No. 37211
Professional Land Surveyor's License #

(lak41\wp51\ftmonfmb.wet)

DIRECTORATE OF PUBLIC WORKS
ENVIRONMENTAL OFFICE

3/22/1983

All input values are NAD 27, geographic coordinates.
All output values are NAD 27, state plane zone 2900 (FEET).

STATION	INPUT	(transformed to) OUTPUT
2567mw1	40 17 44.60000 N	533207.582 N
	074 04 46.10000 W	2163799.020 E
Convergence		0 22 47.16
Scale Factor		1.00000570

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION

Name of Permittee: United States Army
Name of Facility: Fort Monmouth - Building No. 2567
Location: Fort Monmouth
New Jersey
NJPDES Permit No: NJ 29-26926

LAND SURVEYOR'S CERTIFICATION

Well Permit Number; As assigned by NJDEPE's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.		29-26926
Longitude (one tenth of a second):	West	74° 04' 47.0"
Latitude (one tenth of a second):	North	40° 17' 45.2"
Elevation of Top of Casing (cap off)		35.26
Distance from Top of Casing (cap off) to ground		0.02
Owner's Well Number (As shown in the application or Plans):		MW-2
Benchmark:		

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

William E. Telling

Professional Land Surveyor's Signature

William E. Telling, P.L.S.
Professional Land Surveyor's Name

SEAL

N.J.P.L.S. License No. 37211
Professional Land Surveyor's License #

(lak41\wp51\ftmonfmb.wet)

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION

Name of Permittee: United States Army
Name of Facility: Fort Monmouth - Building No. 2567
Location: Fort Monmouth
New Jersey
NJPDES Permit No: NJ 29-26926

LAND SURVEYOR'S CERTIFICATION

Well Permit Number; As assigned by NJDEPE's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.		29-26926
Longitude (one tenth of a second):	West	74° 04' 47.0"
Latitude (one tenth of a second):	North	40° 17' 45.2"
Elevation of Top of Casing (cap off)		35.26
Distance from Top of Casing (cap off) to ground		0.02
Owner's Well Number (As shown in the application or Plans):		MW-2
Benchmark:		

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

William E. Telling

Professional Land Surveyor's Signature

William E. Telling, P.L.S.
Professional Land Surveyor's Name

SEAL

N.J.P.L.S. License No. 37211
Professional Land Surveyor's License #

(lak41\wp51\ftmonfmb.wet)

DIRECTORATE OF PUBLIC WORKS
ENVIRONMENTAL OFFICE

3/22/1983

All input values are NAD 27, geographic coordinates.
All output values are NAD 27, state plane zone 2900 (FEET).

STATION	INPUT	(transformed to) OUTPUT
2567mw2	40 17 45.20000 N	533267.836 N
	074 04 47.00000 W	2163728.879 E
Convergence		0 22 46.58
Scale Factor		1.00000567

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION

Name of Permittee: United States Army
Name of Facility: Fort Monmouth - Building No. 2567
Location: Fort Monmouth
New Jersey
NJPDES Permit No: NJ 29-26947

LAND SURVEYOR'S CERTIFICATION

Well Permit Number; As assigned by NJDEPE's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.		29-26947
Longitude (one tenth of a second):	West	74° 04' 46.9"
Latitude (one tenth of a second):	North	40° 17' 44.5"
Elevation of Top of Casing (cap off)		33.88
Distance from Top of Casing (cap off) to ground		0.06
Owner's Well Number (As shown in the application or Plans):		MW-3
Benchmark:		

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

William E. Telling

Professional Land Surveyor's Signature

William E. Telling, P.L.S.
Professional Land Surveyor's Name

SEAL

N.J.P.L.S. License No. 37211
Professional Land Surveyor's License #

(lak41\wp51\ftmonfmb.wet)

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION

Name of Permittee: United States Army
Name of Facility: Fort Monmouth - Building No. 2567
Location: Fort Monmouth
New Jersey
NJPDES Permit No: NJ 29-26947

LAND SURVEYOR'S CERTIFICATION

Well Permit Number; As assigned by NJDEPE's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.		29-26947
Longitude (one tenth of a second):	West	74° 04' 46.9"
Latitude (one tenth of a second):	North	40° 17' 44.5"
Elevation of Top of Casing (cap off)		33.88
Distance from Top of Casing (cap off) to ground		0.06
Owner's Well Number (As shown in the application or Plans):		MW-3
Benchmark:		

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

William E. Telling

Professional Land Surveyor's Signature

William E. Telling, P.L.S.
Professional Land Surveyor's Name

SEAL

N.J.P.L.S. License No. 37211
Professional Land Surveyor's License #

(lak41\wp51\ftmonfmb.wet)

DIRECTORATE OF PUBLIC WORKS
ENVIRONMENTAL OFFICE

3/22/1983

All input values are NAD 27, geographic coordinates.
All output values are NAD 27, state plane zone 2900 (FEET).

STATION	INPUT (transformed to) OUTPUT	
2567mw3	40 17 44.50000 N	533197.052 N
	074 04 46.90000 W	2163737.097 E
Convergence		0 22 46.64
Scale Factor		1.00000568

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION

Name of Permittee: United States Army
Name of Facility: Fort Monmouth - Building No. 2567
Location: Fort Monmouth
New Jersey
NJPDES Permit No: NJ 29-26948

LAND SURVEYOR'S CERTIFICATION

Well Permit Number; As assigned by NJDEPE's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.		29-26948
Longitude (one tenth of a second):	West	74° 04' 46.0"
Latitude (one tenth of a second):	North	40° 17' 45.5"
Elevation of Top of Casing (cap off)		33.51
Distance from Top of Casing (cap off) to ground		0.13
Owner's Well Number (As shown in the application or Plans):		MW-4
Benchmark:		

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

William E. Telling

Professional Land Surveyor's Signature

William E. Telling, P.L.S.
Professional Land Surveyor's Name

SEAL

N.J.P.L.S. License No. 37211
Professional Land Surveyor's License #

(lak41\wp51\ftmonfmb.wet)

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION

Name of Permittee: United States Army
Name of Facility: Fort Monmouth - Building No. 2567
Location: Fort Monmouth
New Jersey
NJPDES Permit No: NJ 29-26948

LAND SURVEYOR'S CERTIFICATION

Well Permit Number; As assigned by NJDEPE's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.		29-26948
Longitude (one tenth of a second):	West	74° 04' 46.0"
Latitude (one tenth of a second):	North	40° 17' 45.5"
Elevation of Top of Casing (cap off)		33.51
Distance from Top of Casing (cap off) to ground		0.13
Owner's Well Number (As shown in the application or Plans):		MW-4
Benchmark:		

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

William E. Telling

Professional Land Surveyor's Signature

William E. Telling, P.L.S.
Professional Land Surveyor's Name

SEAL

N.J.P.L.S. License No. 37211
Professional Land Surveyor's License #

(lak41\wp51\ftmonfmb.wet)

DIRECTORATE OF PUBLIC WORKS
ENVIRONMENTAL OFFICE 3/22/1983

All input values are NAD 27, geographic coordinates.
All output values are NAD 27, state plane zone 2900 (FEET).

STATION	INPUT	(transformed to) OUTPUT
2567mw4	40 17 45.50000 N	533298.707 N
	074 04 46.00000 W	2163806.165 E
Convergence		0 22 47.23
Scale Factor		1.00000570

- MONITORING WELL CERTIFICATION-FORM B-LOCATION CERTIFICATION

Name of Permittee: U.S. ARMY
Name of Facility: FORT MONMOUTH
Location: MONMOUTH COUNTY, NJ
~~NJPDES~~ Discharge Number: 91-8-27-1414

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:
This number must be permanently affixed to the well casing. 29-31783-

Longitude (to nearest second): West 74°04'44.16"

Latitude (to nearest second): North 40°17'43.79"

Elevation of Top of Inner Casing (cap off) (one-hundredth of a foot): 34.99

Elevation of ground level (1/100th ft) 31.83

Source of elevation datum (~~benchmark~~, nail, etc.) and year. (If an alternate datum has been approved by the Department, identify here, assume datum of 100', and give approximated actual elevation.) Source: FM-12

☒ 1927 ☐ 1983

Elev.:

Owners Well Number (As shown on application or plans): BLDG. 2567 MW-5

Elevations are to be determined by double run, three wire leveling methods using balanced sights, commencing from a well marked and described point. This beginning point shall either be derived from Federal or State benchmarks if not more than 1000 feet from the site or from an alternate datum approved by the Department. Tolerances should meet third order standards, which are 0.05 ft x $(\text{mile})^{1/2}$. For sections less than 0.1 mile, let miles = 0.1.

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Wayne W. Burgett
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

WAYNE W. BURGETT
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

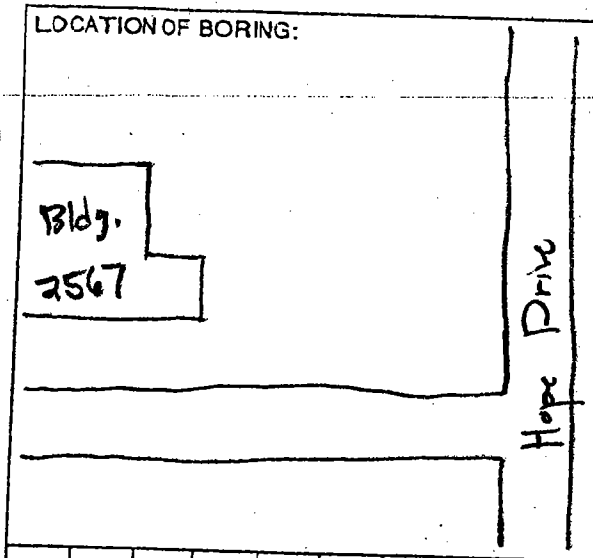
SEAL

31654
PROFESSIONAL LAND SURVEYOR'S LICENSE #

FIELD LOG OF BORING

SHEET 1 OF 2

LOCATION OF BORING:



PROJECT: US Army Ft. Monmouth	BORING NO: MW-5
	TOTAL DEPTH: 12½
JOB NO:	LOGGED BY: E. Pye
PROJ. MGR.: Capritti	EDITED BY:
DRILLING CONTRACTOR: Tyree	
DRILL RIG TYPE: B 80	
DRILLERS NAME: M. Beck	
SAMPLING METHODS: SS	
HAMMER WT.: 20 lbs.	DROP:
STARTED, TIME: 11:15 AM	DATE:
COMPLETED, TIME: 12:15 PM	DATE:
BORING DEPTH (ft): 12½	
CASING DEPTH (ft): 2½	
WATER DEPTH (ft): 7'2"	
TIME:	
DATE: 9/30/94	
BACKFILLED, TIME: 12:20 PM	DATE: 9/23/94 BY: Tyree
SURFACE ELEV:	DATUM:
CONDITIONS:	

SAMPLE DEPTH	SAMPLER TYPE	BLOWS / 6 IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min./ft.)	PID READING (ppm)	ODOR (Y / N?)	GRAPHIC WELL CONST.	DEPTH IN FEET	GRAPHIC LOG	
									Locktite			Topsoil, vegetation
									Casing w/ 2½' stick up	1	SP	Brown, fine sand
											CL	Black, soft clay
2-4'	SS	4	6	24			<1	N		2		Brown, fine sands and silts; wet at approx. 3'.
		5	6									
		8	6							3		Gray, medium sand with well rounded gravel.
		11	6									
										4		
										5	SW	
									Screen	6		
									Morie sand	7		
										8		
										9		
										10		

SERIAL # 41176

JR-133M (10/93)

Mail to

JDEPE
ureau Water Allocation
426
ton, NJ 08625

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
TRENTON, NJ

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.E.

Permit No. 293178

COORD #: 29.13.651

Owner US Army - Fort Monmouth
Address [illegible]
Fort Monmouth New Jersey 07703

Driller Tyree Organization Ltd
Address [illegible]
Lumberton NJ 08048

Name of Facility [illegible]
Address [illegible]
Fort Monmouth New Jersey

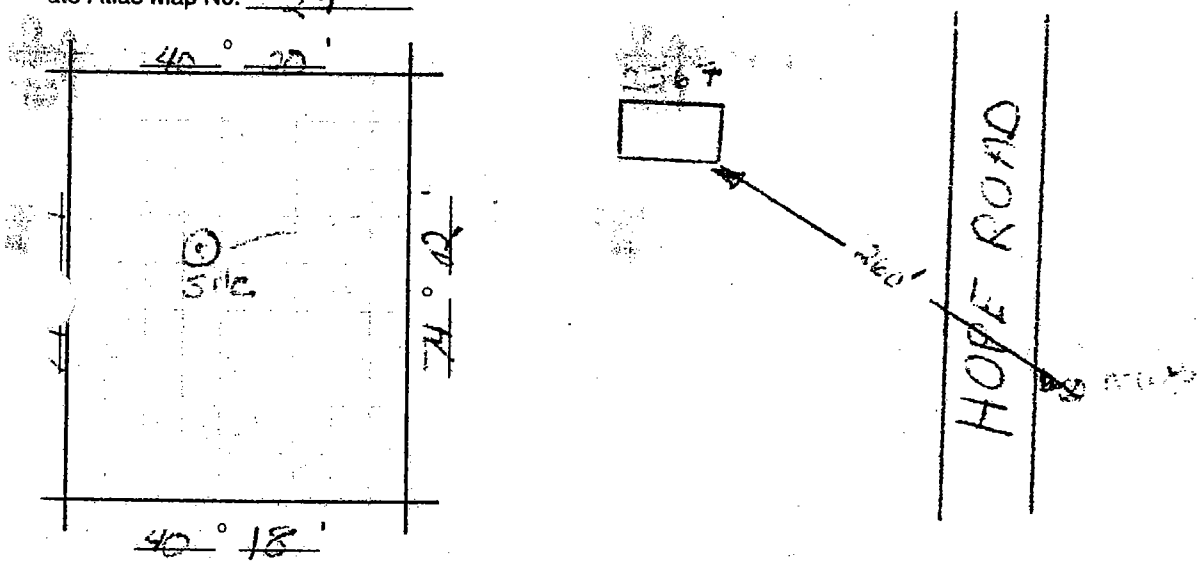
Diameter of Well(s)	4 Inches	Proposed Depth of Well(s)	15 Feet
# of Wells Applied for (max. 10)	1 (one)	Will pumping equipment be installed? YES ☐ NO ☑	
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	N/A GPM

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
		Fort Monmouth	Monmouth

ate Atlas Map No. 29

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ Spill Site
- ☐ ISRA Site
- ☐ CERCLA (Superfund) Site
- ☐ RCRA Site
- ☑ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain) _____

CASE I.D. Number
91-8-27-1414
(Site Bldg. 2567)

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J.D.E.P.
AUG 3 1994
BUREAU OF WATER ALLOCATION

FOR D.E.P.E. USE
☑ Issuance of this permit is subject to the conditions attached. (see next page)
☐ For monitoring purposes only
☐ _____
☐ The well(s) may not be completed with more than 25 feet of total screen or uncased borehole.

EVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS PERTAINING TO THIS PERMIT.

ompliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

e 7-25-94 Signature of Driller _____ License # 1421

Signature of Owner _____ SELF FOR US-EV

COPIES: Water Allocation — White and Pink Health Dept. — Yellow Owner — Blue Driller — White

SERIAL 111176

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
TRENTON, N.J.

NJDEP
Bureau Water Allocation
Trenton, NJ 08625

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE DEP

Permit No. 2567 MW-5

Owner: U.S. Army Fort Monmouth

Address: Building 2567

East Monmouth New Jersey 07703

Driller: Tri-State Operations Inc.

Address: 1230 Hylton Road

Burlington New Jersey 08016

Name of Facility: Bldg 2567

Address: Charles Wood

East Monmouth New Jersey

Diameter of Well(s): 4

Proposed Depth of Well(s): 15

Will pumping equipment be installed? YES NO

Applied for (max. 10): 1 (one)

Type of Well (see reverse): Monitoring

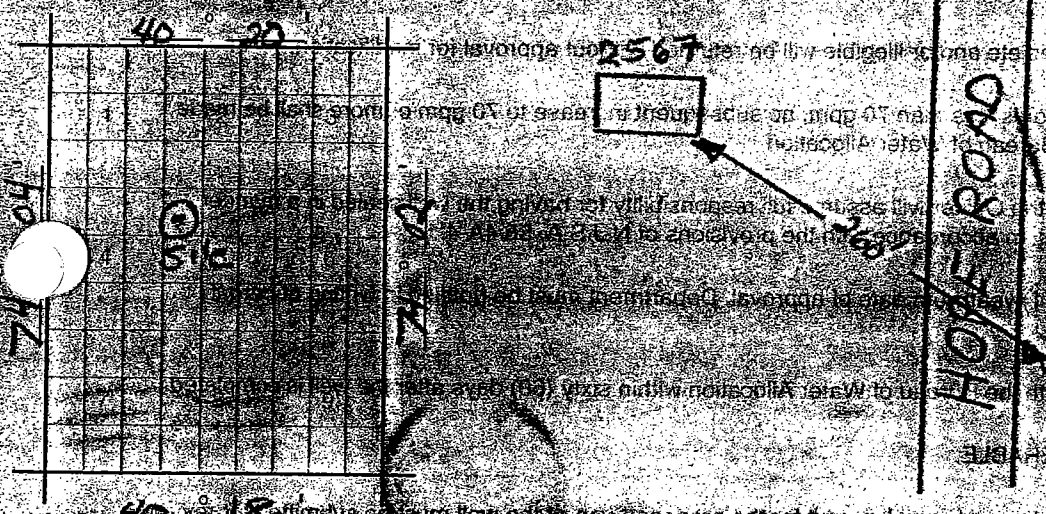
If Yes, give pump capacity: N/A GPM

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
		Fort Monmouth	Monmouth

State Atlas Map No. 29

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ Spill Site
- ☐ ISRA Site
- ☐ CERCLA (Superfund) Site
- ☐ RCRA Site
- ☒ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)

CASE I.D. Number: 91-8-27-1414 (Site Bldg. 2567)

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J.D.E.P.
AUG 3 1994
BUREAU OF WATER ALLOCATION

FOR D.E.P.E. USE ONLY

☐ Issuance of this permit is subject to the conditions attached. (see next page)

☐ For monitoring purposes only

☐ The well(s) may not be completed with more than 25 feet of total screen or uncased borehole.

94 AUG -5 AM 5:08

REVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS PERTAINING TO THIS PERMIT.

In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 7-25-94

Signature of Driller [signature] License # 1421

Signature of Owner [signature] SELFMW-EV

COPIES: Water Allocation — White and Pink Health Dept. — Yellow Owner — Blue Driller — White

MONITORING WELL CERTIFICATION-FORM B-LOCATION CERTIFICATION

Name of Permittee: U.S. ARMY
Name of Facility: FORT MONMOUTH
Location: MONMOUTH COUNTY, NJ
~~NJPDES~~ Discharge Number: 91-8-27-1414

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:
This number must be permanently affixed to the well casing. 29-31783-

Longitude (to nearest second): West 74°04'44.16"

Latitude (to nearest second): North 40° 17' 43.79"

Elevation of Top of Inner Casing (cap off) (one-hundredth of a foot): 34.99

Elevation of ground level (1/100th ft.) 31.83

Source of elevation datum (benchmark, nail, etc.) and year. (If an alternate datum has been approved by the Department, identify here, assume datum of 100', and give approximated actual elevation.) Source: FM-12

☒ 1927 ☐ 1983

Elev.:

Owners Well Number (As shown on application or plans): BLDG. 2567 MW-5

Elevations are to be determined by double run, three wire leveling methods using balanced sights, commencing from a well marked and described point. This beginning point shall either be derived from Federal or State benchmarks if not more than 1000 feet from the site or from an alternate datum approved by the Department. Tolerances should meet third order standards, which are 0.05 ft x $(\text{mile})^{1/2}$. For sections less than 0.1 mile, let miles = 0.1.

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Wayne W. Burgett
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

WAYNE W. BURGETT
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

31654
PROFESSIONAL LAND SURVEYOR'S LICENSE #

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: UNITED STATES ARMY
Name of Facility: CAMP CHARLES WOOD
Location: TINTON FALLS BOROUGH, NEW JERSEY

NJPDES Permit No: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEPE's Water Allocation Section, 609-292-2957): 29-42585
This number must be permanently affixed to the well casing.
Longitude (one tenth of a second): West 74°04'46.0"
Latitude (one tenth of a second): North 40°17'43.7"
Elevation of Top of Casing (cap off) 35.10
Distance from Top of Casing (cap off) to ground 2.24
Owner's Well Number (As shown in the application or Plans): 2567-MW-6
Benchmark: NJGCS Monument No. 9235
Elevation = 56.69

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Professional Land Surveyor's Signature

Frederick W. Kocen Jr.
Professional Land Surveyor's Name

SEAL

N.J. Lic. # 34008
Professional Land Surveyor's License #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (NJAC 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall not be considered to require a major modification of the NJPDES permit.

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

LOG OF BORING 2567 MW6

U.S. ARMY
SELFM-PW-EV
JOSEPH FALLON
BLDG. 2567
GROUNDWATER INVESTIGATION

DRILLING COMPANY : IPSI
DRILLER : MIKE
DRILLING METHOD : HOLLOW STEM AUGER
HOLE DIAMETER : 11 INCH
SAMPLING METHOD : 2 IN. SPLIT SPOON

GEOLOGIST : FRANK ACCORSI
DATE COMPLETED : 05/12/00
NJDEP PERMIT NO. :
NJDEP COORD. :

Depth in FEET	Samples	Blow Count	DESCRIPTION	USCS	OVA (PPM)
0	1		Brown-yellow brown coarse-med-fine SAND, and coarse-med-fine Gravel	GM	0
1	2				0.3
	3				0.5
2	4				0.6
	5				0.4
3	6				
	7				0.2
4	8				
	9		Wet at 4.5 ft.		
5	10				0
	11		Green black Clayey SILT, some fine Sand	ML	
6	12				0
	13				
7	14				0
	15				
8	16				0
	17				
9	18				0
	19				
10	20				0
11					
12					
13			End of boring @ 14 ft.		
14					
15					
16					
17					
18					
19					
20					

Well Construction Information

WELL CASING :
MATERIAL : PVC
DIAMETER : 4 inch
JOINTS : threaded
LENGTH : 3 feet

WELL SCREEN :
MATERIAL : PVC
DIAMETER : 4 inch
JOINTS : threaded
OPENING : 0.010 inch
LENGTH : 10 feet

SAND PACK : Morie #1

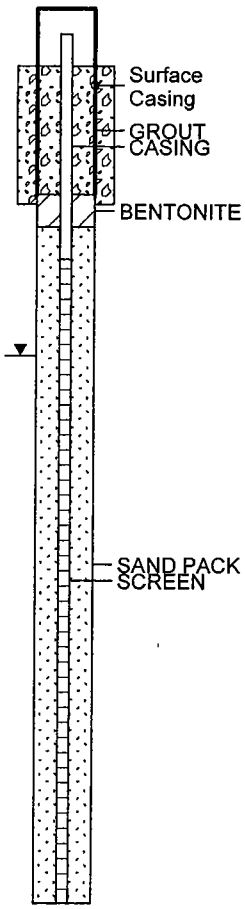
ANNULUS SEAL : bentonite

STICK UP :
MATERIAL : steel
DIAMETER : 6 inch

NOTES

Development of the monitoring well was performed using a submersible pump until ground water was visibly free of sediments (approximately one-half hour).

Well: 2567 MW6
Elev.:



08-31-20u X:\MTECH5\M12\2567MW6.BOR

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS OR HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: UNITED STATES ARMY
Name of Facility: CAMP CHARLES WOOD
Location: TINTON FALLS BOROUGH, NEW JERSEY

NJPDES Permit No: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEPE's Water Allocation Section, 609-292-2957): 29-42586
This number must be permanently affixed to the well casing.
Longitude (one tenth of a second): West 74° 04' 46.9"
Latitude (one tenth of a second): North 40° 17' 43.8"
Elevation of Top of Casing (cap off) 36.34
Distance from Top of Casing (cap off) to ground 2.93
Owner's Well Number (As shown in the application or Plans): 2567-MW-7
Benchmark: NJGCS Monument No. 9235
Elevation = 56.69

AUTHENTICATION:

I declare under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Professional Land Surveyor's Signature

Frederick W. Kocen Jr.
Professional Land Surveyor's Name

SEAL

N.J. Lic. # 34008
Professional Land Surveyor's License #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (NJAC 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall not be considered to require a major modification of the NJPDES permit.

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

LOG OF BORING 2567 MW7

U.S. ARMY
SELFM-PW-EV
JOSEPH FALLON
BLDG. 2567
GROUNDWATER INVESTIGATION

DRILLING COMPANY : IPSI
DRILLER : MIKE
DRILLING METHOD : HOLLOW STEM AUGER
HOLE DIAMETER : 11 INCH
SAMPLING METHOD : 2 IN. SPLIT SPOON

GEOLOGIST : FRANK ACCORSI
DATE COMPLETED : 05/12/00
NJDEP PERMIT NO. :
NJDEP COORD. :

Depth in FEET	Samples	Blow Count	DESCRIPTION	USCS	OVA (PPM)
0	1		Brown coarse-med-fine SAND, little fine Gravel, trace Silt	GC	0
1	2				
	3				
	4				0.4
2	5				
	6				0.5
3	7				
	8				0.3
4	9		Green brown coarse-med-fine SAND, little Silt, trace fine Gravel Wet at 5 ft.	GC	
	10				0.4
5	11				
	12				0
6	13				
	14				0
7	15				
	16				0
8	17		Green fine SAND, and Silt	SM	
	18				0
9	19				
	20				0
10					
11					
12					
13			End of boring @ 14 ft.		
14					
15					
16					
17					
18					
19					
20					

Well Construction Information

WELL CASING :
MATERIAL : PVC
DIAMETER : 4 inch
JOINTS : threaded
LENGTH : 3 feet

WELL SCREEN :
MATERIAL : PVC
DIAMETER : 4 inch
JOINTS : threaded
OPENING : 0.010 inch
LENGTH : 10 feet

SAND PACK : Morie #1

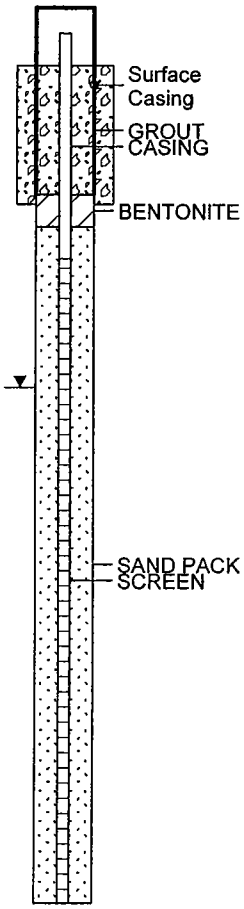
ANNULUS SEAL : bentonite

STICK UP :
MATERIAL : steel
DIAMETER : 6 inch

NOTES

Development of the monitoring well was performed using a submersible pump until ground water was visibly free of sediments (approximately one-half hour).

Well: 2567 MW7
Elev.:



08-31-20u X:\MTECH5\M12\2567MW7.BOR

APPENDIX F

Site Photographs

CURRENT SITE CONDITIONS
SITE 2567 – CHARLES WOOD AREA
FORT MONMOUTH, NEW JERSEY

MONITORING WELL 2567-MW7

BUILDING 2567 AND GASOLINE PUMPS

APPENDIX G

Groundwater Sampling Laboratory Data Sheets

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
2446.06	MW-01	29-26925	04/11/97
2446.05	MW-02	29-26926	04/11/97
2446.07	MW-03	29-26947	04/11/97
2446.03	MW-04	29-26948	04/11/97
2446.04	MW-05	29-31783	04/11/97

NJDEP Laboratory Certification # 13461

Report Date: 7 October, 1997

Daniel Wright
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3111D
Antimony	3113B
Arsenic	3113B
Barium	3111D
Beryllium	3113B
Cadmium	3111B
Calcium	3111B
Chromium	3111D
Cobalt	3113B
Copper	3111B
Iron	3111B
Lead	3113B
Magnesium	3111B
Manganese	3111B
Mercury	3112B
Nickel	3111B
Potassium	3111B
Selenium	3113B
Silver	3111B
Sodium	3111B
Thallium	3113B
Vanadium	3111D
Zinc	3111B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Joe Fallon
Phone #:
(✓)DERA ( )OMA ( )Other:
Project No:
Location: Bldg 2567
Samplers Name / Company: Ray Pogwist / TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	624 + 15	Pb							Remarks / Preservation Method
2446 01	Trip Blank	4/11/97	0800	AQ	2	X								624-HCl Pb-HNO3
02	Field Blank		1000		3	X	X							All Samples Kept ≤ 4°C
03	Bldg 2567 MW-4		1030		3	X	X							# 29-26948
04	Bldg 2567 MW-5		1100		3	X	X							# 29-31783
05	Bldg 2567 MW-2		1200		3	X	X							#29 26926
06	Bldg 2567 MW-1		1420		3	X	X							#29-26925
07	Bldg 2567 MW-3		1445		3	X	X							# 29 26947
08	Field ~~Blank~~ DUP DW 4/11/97		—		3	X	X							

Comments:

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Joe Fallon	4/11/97 1555	D WRIGHT			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified
Turnaround time: (X)Standard 4 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks:

print legibly

Custody.xls4/3/97

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG2567
MW# 1
NJDEP ID# 2926925
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER RAY POGWIST

DATE 4/11/97 WEATHER OVERCAST 50'S

ELEVATION OF CASING SURVEY MARK
DTW 3.80
DEPTH OF WELL 13.10
HEIGHT OF WATER 9.30
9.30 X 0.65 X ___3___ = 18.13
GAL OF H2O TO BE EVACUATED 18.14 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 0.3 GPM
Hnu 0 PPM

PURGE START TIME 13:15
pH 6.54 TEMP 54.5 DEG F
DISSOLVED O2 3.7 PPM SPECIFIC CONDUCTIVITY 558 us/cm

PURGE END TIME 14:15
pH 6.81 TEMP 54.2 DEG F
DISSOLVED O2 3.2 PPM SPECIFIC CONDUCTIVITY 642 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 5.05 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 18.14 GAL

pH 6.91 TEMP 54.2 DEG F
DISSOLVED O2 3.0 PPM SPECIFIC CONDUCTIVITY 640 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 2567
MW# 2
NJDEP ID# 2926926
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 04/11/97 WEATHER: OVERCAST 50'S

ELEVATION OF CASING SURVEY MARK
DTW: 3.40
DEPTH OF WELL: 12.20
HEIGHT OF WATER 8.80
8.80 X 0.65 X 3 = 17.16
GAL OF H2O TO BE EVACUATED 17.16 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 0.3 GPM
Hnu READING 0

PURGE START TIME: 10:45
pH: 5.87 TEMP 50.6 DEG F
DISSOLVED O2 3.5 PPM SPECIFIC CONDUCTIVITY 871 us/cm

PURGE END TIME: 11:51
pH: 6.50 TEMP 51.3 DEG F
DISSOLVED O2 2.6 PPM SPECIFIC CONDUCTIVITY 590 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 360 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 17.2 GAL

pH: 6.51 TEMP 51.6 DEG F
DISSOLVED O2 2.5 PPM SPECIFIC CONDUCTIVITY 581 us/cm

COMMENTS:

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG2567
MW# 3
NJDEP ID#2926947
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER RAY POGWIST

DATE 4/11/97 WEATHER OVERCAST 50'S

ELEVATION OF CASING SURVEY MARK
DTW 3.15
DEPTH OF WELL 12.50
HEIGHT OF WATER 9.35
9.35 X 0.65 X ___3___ = 18.23
GAL OF H2O TO BE EVACUATED 18.23 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.3 GPM
Hnu 0 PPM

PURGE START TIME 13:00
pH 6.50 TEMP 53.6 DEG F
DISSOLVED O2 2.9 PPM SPECIFIC CONDUCTIVITY 108 us/cm

PURGE END TIME 14:35
pH 7.23 TEMP 57.5 DEG F
DISSOLVED O2 2.6 PPM SPECIFIC CONDUCTIVITY 308 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 3.85 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 18.25 GAL

pH 7.25 TEMP 58.1 DEG F
DISSOLVED O2 2.5 PPM SPECIFIC CONDUCTIVITY 320 us/cm

COMMENTS:_____
_____
_____

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG 2567
MW# 4
NJDEP ID# 2926948
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER RAY POGWIST

DATE 4/11/97 WEATHER OVERCAST 50'S

ELEVATION OF CASING SURVEY MARK
DTW 2.55
DEPTH OF WELL 11.50
HEIGHT OF WATER 8.95
8.95 X 0.65 X ___3___ = 17.45
GAL OF H2O TO BE EVACUATED 17.45 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 0.3 GPM
Hnu 0 PPM

PURGE START TIME 9:20
pH 4.52 TEMP 50.3 DEG F
DISSOLVED O2 2.9 PPM SPECIFIC CONDUCTIVITY 131 us/cm

PURGE END TIME 10:20
pH 5.28 TEMP 50.2 DEG F
DISSOLVED O2 2.6 PPM SPECIFIC CONDUCTIVITY 230 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 3.05 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 17.5 GAL

pH 5.26 TEMP 50.2 DEG F
DISSOLVED O2 2.4 PPM SPECIFIC CONDUCTIVITY 239 us/cm

COMMENTS:

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG2567
MW# 5
NJDEP ID# 2931783
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER RAY POGWIST

DATE 4/11/97 WEATHER OVERCAST 50'S

ELEVATION OF CASING SURVEY MARK
DTW 7.20
DEPTH OF WELL 14.75
HEIGHT OF WATER 7.55
7.55 X 0.65 X ___3___ = 14.72
GAL OF H2O TO BE EVACUATED 14.72 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.2 GPM
Hnu 0 PPM

PURGE START TIME 9:35
pH 5.30 TEMP 45.5 DEG F
DISSOLVED O2 2.5 PPM SPECIFIC CONDUCTIVITY 132 us/cm

PURGE END TIME 10:50
pH 6.58 TEMP 48.0 DEG F
DISSOLVED O2 2.4 PPM SPECIFIC CONDUCTIVITY 121 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 8.03 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 14.8 GAL

pH 6.41 TEMP 48.5 DEG F
DISSOLVED O2 2.2 PPM SPECIFIC CONDUCTIVITY 120 us/cm

COMMENTS:_____

Organic Data Qualifiers

Form 1:

This form reports concentrations of Tentatively Identified Compounds. Form 1E is the Volatile report, Form 1F is for Semi-Volatiles.

Qualifiers are:

J	Estimated Value
N	Presumptive evidence of a compound
E	Concentration exceeds calibration range
D	Diluted sample
A	TIC is a suspected aldol condensation product

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**V00645**	Sample Name	**Daily Blank**
Date	**24-Apr-97**	Field ID	**Daily Blank**
Analyst	**Skelton**	Dilution Factor	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v00646.d**	Sample Name	**2446.01**
Operator	**Paul Skelton**	Field ID	**Trip Blank**
Date Acquired	**04/24/97 18:16**	Sample Multiplier	**1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v00647.d**	Sample Name	**2446.02**
Operator	**Paul Skelton**	Field ID	**Field Blank**
Date Acquired	**04/24/97 19:03**	Sample Multiplier	**1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v00651.d**	Sample Name	**2446.06**
Operator	**Paul Skelton**	Field ID	**Bldg 2567 MW1**
Date Acquired	**04/24/97 22:16**	Sample Multiplier	**1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v00650.d**	Sample Name	**2446.05**
Operator	**Paul Skelton**	Field ID	**Bldg 2567 MW2**
Date Acquired	**04/24/97 21:28**	Sample Multiplier	1

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v00652.d**
Operator **Paul Skelton**
Date Acquired **04/24/97 23:04**

Sample Name **2446.07**
Field ID **Bldg 2567 MW3**
Sample Multiplier **1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v00648.d**	Sample Name	**2446.03**
Operator	**Paul Skelton**	Field ID	**Bldg 2567 MW4**
Date Acquired	**04/24/97 19:51**	Sample Multiplier	**1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v00649.d**	Sample Name	**2446.04**
Operator	**Paul Skelton**	Field ID	**Bldg 2567 MW5**
Date Acquired	**04/24/97 20:40**	Sample Multiplier	1

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**V00653.D**	Sample Name	**2446.08**
Operator	**Paul Skelton**	Field ID	**Field Duplicate**
Date Acquired	**04/24/97 23:52**	Sample Multiplier	**1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Daily Blank

Lab Name: FMETL Project

NJDEP # 13461 Case No.: Location SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Daily Blank

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00645.D

Level: (low/med) LOW Date Received: 04/24/97

% Moisture: not dec. Date Analyzed: 04/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	34.92	5	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Trip Blank

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2446 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2446.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00646.D

Level: (low/med) LOW Date Received: 04/11/97

% Moisture: not dec. Date Analyzed: 04/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2446 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2446.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00647.D

Level: (low/med) LOW Date Received: 04/11/97

% Moisture: not dec. Date Analyzed: 04/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW1

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2446 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2446.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00651.D

Level: (low/med) LOW Date Received: 04/11/97

% Moisture: not dec. Date Analyzed: 04/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 3

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000075-65-0	2-Propanol, 2-methyl-	12.04	18	JN
2. 001634-04-4	Propane, 2-methoxy-2-methyl-	14.12	66	JN
3. 000071-36-3	1-Butanol	36.71	4	JN

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW2

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2446 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2446.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00650.D

Level: (low/med) LOW Date Received: 04/11/97

% Moisture: not dec. Date Analyzed: 04/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW3

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2446 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2446.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00652.D

Level: (low/med) LOW Date Received: 04/11/97

% Moisture: not dec. Date Analyzed: 04/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 4

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001066-40-6	Silanol, trimethyl-	13.92	9	JN
2. 007385-10-6	Silane, 9H-fluoren-9-yltrimethyl-	34.92	24	JN
3. 000300-57-2	Benzene, 2-propenyl-	36.05	3	JN
4. 031502-14-4	2-Nonen-1-ol, (E)-	36.71	10	JN

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW4

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2446 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2446.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00648.D

Level: (low/med) LOW Date Received: 04/11/97

% Moisture: not dec. Date Analyzed: 04/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW5

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2446 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2446.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00649.D

Level: (low/med) LOW Date Received: 04/11/97

% Moisture: not dec. Date Analyzed: 04/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000627-45-2	N-Ethylformamide	34.92	9	JN
2. 031502-14-4	2-Nonen-1-ol, (E)-	36.71	6	JN

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Dup

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2446 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2446.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00653.D

Level: (low/med) LOW Date Received: 04/11/97

% Moisture: not dec. Date Analyzed: 04/24/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 4

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001634-04-4	Propane, 2-methoxy-2-methyl-	14.13	6	JN
2. 000300-57-2	Benzene, 2-propenyl-	36.05	8	JN
3. 000112-20-9	1-Nonanamine	36.70	5	JN
4. 000075-83-2	Butane, 2,2-dimethyl-	36.91	6	JN

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2446.02-.08
Sample Received: 4/11/97
Analysis Start: 4/22/97
Analysis Completed: 4/22/97

Site: Ft. Monmouth
Building 2567

Matrix: Aqueous

TEST PARAMETER: LEAD

Laboratory ID#	Sample Location/ Identification	Result (ug/L)	MDL (ug/L)
2446.02	Field Blank	1.6	0.5
2446.03	Bldg. 2567 MW 4	2.3	0.5
2446.04	Bldg. 2567 MW 5	2.7	0.5
2446.05	Bldg. 2567 MW 2	10.7	0.5
2446.06	Bldg. 2567 MW 1	1.8	0.5
2446.07	Bldg. 2567 MW 3	2.5	0.5
2446.08	Bldg. 2567 Dup	1.1	0.5

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
2940.07	MW-01	29-26925	08/28/97
2940.04	MW-02	29-26926	08/28/97
2940.06	MW-03	29-26947	08/28/97
2940.05	MW-04	29-26948	08/28/97
2940.03	MW-05	29-31783	08/28/97

NJDEP Laboratory Certification # 13461

Report Date: 2 December, 1997

Daniel Wright
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3111D
Antimony	3113B
Arsenic	3113B
Barium	3111D
Beryllium	3113B
Cadmium	3111B
Calcium	3111B
Chromium	3111D
Cobalt	3113B
Copper	3111B
Iron	3111B
Lead	3113B
Magnesium	3111B
Manganese	3111B
Mercury	3112B
Nickel	3111B
Potassium	3111B
Selenium	3113B
Silver	3111B
Sodium	3111B
Thallium	3113B
Vanadium	3111D
Zinc	3111B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: I Fallon
Phone #: x 26223
(x)DERA ( )OMA ( )Other:
Project No:
Location: Bldg 2567
Samplers Name / Company: Ray Pogwist / TVS

Analysis Parameters: VOA + 15, Pb

Comments: All Samples Kept <4°C

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA + 15	Pb	Remarks / Preservation Method
2940.01	Trip Blank	8/28/97	0800	AQ	2	X		(HCl - VOA) (HNO_3 - Pb)
02	Field Blank		1000		3	X	X	
03	Bldg 2567 MW5		1035			X	X	#2931783
04	Bldg 2567 MW2		1025			X	X	#2926926
05	Bldg 2567 MW4		1120			X	X	#2926948
06	Bldg 2567 MW3		1420			X	X	#2926947 Strong ODR
07	Bldg 2567 MW1		1500			X	X	#2926925
08	Field Dup					X	X	
								B6MW6B DTW - 7.30'

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	8/28/97 1545	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified
Turnaround time: (X)Standard 4 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks:

print legibly

Custody.xls7/11/97

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG 2567
MW# 1
NJDEP ID# 2926925
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE 8/28/97 WEATHER OVERCAST HUMID 70'S

ELEVATION OF CASING SURVEY MARK
DTW 4.80
DEPTH OF WELL 13.10
HEIGHT OF WATER 8.30
8.30 X 0.65 X ____3____ = 16.185
GAL OF H2O TO BE EVACUATED 16.2 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.2 GPM
Hnu PPM - COULD NOT USE - WEATHER

PURGE START TIME 13:30
pH 7.91 TEMP 24.5 DEG °C
DISSOLVED O2 2.6 PPM SPECIFIC CONDUCTIVITY 390 us/cm

PURGE END TIME 14:51
pH 7.95 TEMP 23.7 DEG °C
DISSOLVED O2 2.5 PPM SPECIFIC CONDUCTIVITY 460 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 6.00 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED 16.2 GAL

pH 7.93 TEMP 23.5 DEG °C
DISSOLVED O2 2.4 PPM SPECIFIC CONDUCTIVITY 480 us/cm

COMMENTS:_____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 2567
MW# 2
NJDEP ID# 2926926
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE: 08/28/97 WEATHER: OVERCAST HUMID 70'S

ELEVATION OF CASING SURVEY MARK
DTW: 4.30
DEPTH OF WELL: 12.20
HEIGHT OF WATER 7.90
7.90 X 0.65 X ____3____ = 15.405
GAL OF H2O TO BE EVACUATED 15.4 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.3 GPM
Hnu READING COULD NOT USE-WEATHER

PURGE START TIME: 9:30
pH: 8.20 TEMP 21.1 DEG °C
DISSOLVED O2 3.4 PPM SPECIFIC CONDUCTIVITY 610 us/cm

PURGE END TIME: 10:22
pH: 7.92 TEMP 23.0 DEG °C
DISSOLVED O2 2.3 PPM SPECIFIC CONDUCTIVITY 620 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 5.10 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 15.6 GAL

pH: 7.89 TEMP 22.9 DEG F
DISSOLVED O2 2.4 PPM SPECIFIC CONDUCTIVITY 610 us/cm

COMMENTS:_____

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG 2567
MW# 3
NJDEP ID# 2926947
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE 8/28/97 WEATHER OVERCAST HUMID 70'S

ELEVATION OF CASING SURVEY MARK
DTW 4.00
DEPTH OF WELL 12.50
HEIGHT OF WATER 8.50
8.50 X 0.65 X ___3___ = 16.575
GAL OF H2O TO BE EVACUATED 16.58 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.3 GPM
Hnu PPM - COULD NOT USE - WEATHER

PURGE START TIME 13:20
pH 7.80 TEMP 24.9 DEG °C
DISSOLVED O2 4.0 PPM SPECIFIC CONDUCTIVITY 120 us/cm

PURGE END TIME 14:16
pH 8.19 TEMP 24.2 DEG °C
DISSOLVED O2 2.2 PPM SPECIFIC CONDUCTIVITY 310 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 5.70 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED 16.8 GAL

pH 8.22 TEMP 24.3 DEG °C
DISSOLVED O2 2.2 PPM SPECIFIC CONDUCTIVITY 320 us/cm

COMMENTS:_____

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG 2567
MW# 4
NJDEP ID# 2926948
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE 8/28/97 WEATHER OVERCAST HUMID 70'S

ELEVATION OF CASING SURVEY MARK
DTW 3.20
DEPTH OF WELL 11.50
HEIGHT OF WATER 8.30
8.30 X 0.65 X ____3____ = 16.185
GAL OF H2O TO BE EVACUATED 16.185 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.2 GPM
Hnu PPM - COULD NOT USE - WEATHER

PURGE START TIME 9:50
pH 7.98 TEMP 22.2 DEG °C
DISSOLVED O2 3.2 PPM SPECIFIC CONDUCTIVITY 170 us/cm

PURGE END TIME 11:11
pH 8.15 TEMP 22.1 DEG °C
DISSOLVED O2 2.7 PPM SPECIFIC CONDUCTIVITY 180 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 3.30 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED 16.2 GAL

pH 8.10 TEMP 22.1 DEG °C
DISSOLVED O2 2.5 PPM SPECIFIC CONDUCTIVITY 180 us/cm

COMMENTS:_____

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG 2567
MW# 5
NJDEP ID# 2931783
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER RAY POGWIST

DATE 8/28/97 WEATHER OVERCAST HUMID 70'S

ELEVATION OF CASING SURVEY MARK 34.99
DTW 7.50
DEPTH OF WELL 14.75
HEIGHT OF WATER 7.25
7.25 X 0.65 X ____3____ = 14.1375
GAL OF H2O TO BE EVACUATED 14.14 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.2 GPM
Hnu PPM COULD NOT USE - WEATHER

PURGE START TIME 9:15
pH 8.28 TEMP 18.2 DEG °C
DISSOLVED O2 3.3 PPM SPECIFIC CONDUCTIVITY 250 us/cm

PURGE END TIME 10:26
pH 7.48 TEMP 19.4 DEG °C
DISSOLVED O2 3.4 PPM SPECIFIC CONDUCTIVITY 230 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 7.50 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED 14.2 GAL

pH 7.47 TEMP 19.3 DEG °C
DISSOLVED O2 3.4 PPM SPECIFIC CONDUCTIVITY 220 us/cm

COMMENTS:_____

Organic Data Qualifiers

Form 1:

This form reports concentrations of Tentatively Identified Compounds. Form 1E is the Volatile report, Form 1F is for Semi-Volatiles.

Qualifiers are:

J	Estimated Value
N	Presumptive evidence of a compound
E	Concentration exceeds calibration range
D	Diluted sample
A	TIC is a suspected aldol condensation product

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01811.d**
Operator **Skelton**
Date Acquired **09/ 2/19 -1:9:**

Sample Name **Daily Blank**
Field ID **Daily Blank**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01852.d**
Operator **Skelton**
Date Acquired **09/ 8/19 -1:0:**

Sample Name **Daily Blank**
Field ID **Daily Blank**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01873.d**
Operator **Skelton**
Date Acquired **09/ 9/19 -1:1:**

Sample Name **Daily Blank**
Field ID **Daily Blank**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01814.d**
Operator **Skelton**
Date Acquired **09/ 2/19 -1:2:**

Sample Name **2940.01**
Field ID **Trip Blank**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01815.d**
Operator **Skelton**
Date Acquired **09/ 2/19 -1:3:**

Sample Name **2940.02**
Field ID **Field Blank**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01859.d**
Operator **Skelton**
Date Acquired **09/ 8/19 -1:6:**

Sample Name **2940.07**
Field ID **Bldg 2567 MW1**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether	14.03	1900865	195.64 ug/L	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene	20.66	582113	31.84 ug/L	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene	25.58	18625	1.34 ug/L	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes	29.58	125500	32.59 ug/L	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01878.d**
Operator **Skelton**
Date Acquired **09/ 9/19 -1:6:**

Sample Name **2940.07**
Field ID **Bldg 2567 MW1**
Sample Multiplier **2**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	12.50 ug/L	na
107131	Acrylonitrile			not detected	12.50 ug/L	na
75650	tert-Butyl alcohol			not detected	25.00 ug/L	na
1634044	Methyl-tert-Butyl ether	14.01	890504	237.46 ug/L	2.50 ug/L	na
108203	Di-isopropyl ether			not detected	2.50 ug/L	na
	Dichlorodifluoromethane			not detected	7.26 ug/L	na
74-87-3	Chloromethane			not detected	1.58 ug/L	30
75-01-4	Vinyl Chloride			not detected	5.22 ug/L	5
74-83-9	Bromomethane			not detected	2.90 ug/L	10
75-00-3	Chloroethane			not detected	4.40 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	2.62 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	1.48 ug/L	2
67-64-1	Acetone			not detected	3.14 ug/L	700
75-15-0	Carbon Disulfide			not detected	1.08 ug/L	na
75-09-2	Methylene Chloride			not detected	3.32 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	1.00 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	1.66 ug/L	70
108-05-4	Vinyl Acetate			not detected	4.14 ug/L	na
78-93-3	2-Butanone			not detected	4.12 ug/L	300
	cis-1,2-Dichloroethene			not detected	1.30 ug/L	10
67-66-3	Chloroform			not detected	0.86 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	1.62 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	2.40 ug/L	2
71-43-2	Benzene	20.64	268860	39.42 ug/L	1.02 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	2.54 ug/L	2
79-01-6	Trichloroethene			not detected	1.88 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	1.56 ug/L	1
75-27-4	Bromodichloromethane			not detected	1.54 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	2.10 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	1.20 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	2.66 ug/L	400
108-88-3	Toluene			not detected	1.46 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	2.86 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	2.98 ug/L	3
127-18-4	Tetrachloroethene			not detected	1.84 ug/L	1
591-78-6	2-Hexanone			not detected	2.24 ug/L	na
126-48-1	Dibromochloromethane			not detected	2.72 ug/L	10
108-90-7	Chlorobenzene			not detected	1.32 ug/L	4
100-41-4	Ethylbenzene			not detected	2.28 ug/L	700
1330-20-7	m+p-Xylenes	29.58	239011	72.71 ug/L	5.06 ug/L	na
1330-20-7	o-Xylene			not detected	3.84 ug/L	na
100-42-5	Styrene			not detected	3.14 ug/L	100
75-25-2	Bromoform			not detected	3.36 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	3.42 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	5.02 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	6.16 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	5.50 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01824.d**
Operator **Skelton**
Date Acquired **09/ 2/19 -1:1:**

Sample Name **2940.04**
Field ID **Bldg 2567 MW2**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01826.d**
Operator **Skelton**
Date Acquired **09/ 2/19 -1:2:**

Sample Name **2940.06**
Field ID **Bldg 2567 MW3**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol	11.95	468471	696.26 ug/L	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether	14.01	378439	41.68 ug/L	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.43	125619	25.17 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01877.d**
Operator **Skelton**
Date Acquired **09/ 9/19 -1:5:**

Sample Name **2940.06**
Field ID **Bldg 2567 MW3**
Sample Multiplier **5**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	31.25 ug/L	na
107131	Acrylonitrile			not detected	31.25 ug/L	na
75650	tert-Butyl alcohol	11.94	109541	940.41 ug/L	62.50 ug/L	na
1634044	Methyl-tert-Butyl ether	14.02	88568	62.16 ug/L	6.25 ug/L	na
108203	Di-isopropyl ether			not detected	6.25 ug/L	na
	Dichlorodifluoromethane			not detected	18.15 ug/L	na
74-87-3	Chloromethane			not detected	3.95 ug/L	30
75-01-4	Vinyl Chloride			not detected	13.05 ug/L	5
74-83-9	Bromomethane			not detected	7.25 ug/L	10
75-00-3	Chloroethane			not detected	11.00 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	6.55 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	3.70 ug/L	2
67-64-1	Acetone			not detected	7.85 ug/L	700
75-15-0	Carbon Disulfide			not detected	2.70 ug/L	na
75-09-2	Methylene Chloride			not detected	8.30 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	2.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	4.15 ug/L	70
108-05-4	Vinyl Acetate			not detected	10.35 ug/L	na
78-93-3	2-Butanone			not detected	10.30 ug/L	300
	cis-1,2-Dichloroethene			not detected	3.25 ug/L	10
67-66-3	Chloroform			not detected	2.15 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	4.05 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	6.00 ug/L	2
71-43-2	Benzene			not detected	2.55 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	6.35 ug/L	2
79-01-6	Trichloroethene			not detected	4.70 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	3.90 ug/L	1
75-27-4	Bromodichloromethane			not detected	3.85 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	5.25 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	3.00 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	6.65 ug/L	400
108-88-3	Toluene			not detected	3.65 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	7.15 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	7.45 ug/L	3
127-18-4	Tetrachloroethene			not detected	4.60 ug/L	1
591-78-6	2-Hexanone			not detected	5.60 ug/L	na
126-48-1	Dibromochloromethane			not detected	6.80 ug/L	10
108-90-7	Chlorobenzene			not detected	3.30 ug/L	4
100-41-4	Ethylbenzene			not detected	5.70 ug/L	700
1330-20-7	m+p-Xylenes			not detected	12.65 ug/L	na
1330-20-7	o-Xylene			not detected	9.60 ug/L	na
100-42-5	Styrene			not detected	7.85 ug/L	100
75-25-2	Bromoform			not detected	8.40 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	8.55 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	12.55 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	15.40 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	13.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01825.d**
Operator **Skelton**
Date Acquired **09/ 2/19 -1:1:**

Sample Name **2940.05**
Field ID **Bldg 2567 MW4**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01823.d**
Operator **Skelton**
Date Acquired **09/ 2/19 -1:0:**

Sample Name **2940.03**
Field ID **Bldg 2567 MW5**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v01860.d**
Operator **Skelton**
Date Acquired **09/ 8/19 -1:7:**

Sample Name **2940.08**
Field ID **Field Dup**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Daily Blank

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2940 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Daily Blank

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01811.D

Level: (low/med) LOW Date Received: 08/28/97

% Moisture: not dec. Date Analyzed: 09/02/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Daily Blank

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2940 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Daily Blank

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01852.D

Level: (low/med) LOW Date Received: 08/28/97

% Moisture: not dec. Date Analyzed: 09/08/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Daily Blank

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2940 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Daily Blank

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01873.D

Level: (low/med) LOW Date Received: 08/28/97

% Moisture: not dec. Date Analyzed: 09/09/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Trip Blank

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2940 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2940.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01814.D

Level: (low/med) LOW Date Received: 08/28/97

% Moisture: not dec. Date Analyzed: 09/02/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2940 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2940.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01815.D

Level: (low/med) LOW Date Received: 08/28/97

% Moisture: not dec. Date Analyzed: 09/02/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW1

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2940 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2940.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01859.D

Level: (low/med) LOW Date Received: 08/28/97

% Moisture: not dec. Date Analyzed: 09/08/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 6

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	7.95	22	JN
2.	unknown	12.68	27	J
3.	unknown hydrocarbon	13.75	140	J
4. 000096-37-7	Cyclopentane, methyl-	17.30	250	JN
5. 000110-82-7	Cyclohexane	19.51	38	JN
6. 000098-82-8	Benzene, (1-methylethyl)-	31.55	19	JN

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW2

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2940 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2940.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01824.D

Level: (low/med) LOW Date Received: 08/28/97

% Moisture: not dec. Date Analyzed: 09/02/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW3

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2940 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2940.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01826.D

Level: (low/med) LOW Date Received: 08/28/97

% Moisture: not dec. Date Analyzed: 09/02/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW4

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2940 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2940.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01825.D

Level: (low/med) LOW Date Received: 08/28/97

% Moisture: not dec. Date Analyzed: 09/02/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW5

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2940 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2940.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01823.D

Level: (low/med) LOW Date Received: 08/28/97

% Moisture: not dec. Date Analyzed: 09/02/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	13.85	20	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Dup

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2940 Location B.2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2940.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V01860.D

Level: (low/med) LOW Date Received: 08/28/97

% Moisture: not dec. Date Analyzed: 09/08/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2940.02-.08
Sample Received: 8/28/97
Analysis Start: 9/08/97
Analysis Completed: 9/08/97

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aqueous

Method of Analysis: Std. Methods 18th, Method 3113B

TEST PARAMETER: Lead

Laboratory ID#	Sample Location	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
2940.02	Field Blank	ND	0.5	10
2940.03	MW-5 #2931783	ND	0.5	10
2940.04	MW-2 #2926926	ND	0.5	10
2940.05	MW-4 32926948	ND	0.5	10
2940.06	MW-3 #2926947	ND	0.5	10
2940.07	MW-1 #2926925	1.4	0.5	10
2940.08	Field Dup	ND	0.5	10

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Sample Matrix: Aqueous

Site: Ft. Monmouth
Bldg. 2567

Field ID: NA

Method of Analysis: Std. Methods 18th, Method 3113B

TEST PARAMETER: Lead

Laboratory ID#	Sample Location	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
Method Blank	NA	ND	0.5	10

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3188.06	MW-01	29-26925	12/02/97
3188.03	MW-02	29-26926	12/02/97
3188.07	MW-03	29-26947	12/02/97
3188.04	MW-04	29-26948	12/02/97
3188.05	MW-05	29-31783	12/02/97

NJDEP Laboratory Certification # 13461

Report Date: 8 January,1998

Daniel Wright
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: X26223
(✓)DERA ( )OMA ( )Other:_____

Project No:
Location: Bldg 2567

Samplers Name / Company: Ray Pogwist / TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	TCL VOA + 15	TAL Metals	TCL BNA + 25	TCL Pest / PCB					Remarks / Preservation Method
3188.01	Trip Blank	12/2/97	0800	AQ	2	X								All Samples Kept C 4oC
02	Field Blank		1000		5	X	X	X	X					VOA-HCl
03	MW#2 # 2926926		1100		5									Metals-HNO3
04	MW#4 # 2926948*		1110		9			*	*					2 Additional QC
05	MW#5 # 2931783		1130		5									
06	MW#1 2926925		1505											
07	MW#3 # 2926947		1515											
08	Field Dup		—											

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	12/2/97 15:30	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (_)Reduced, (_)Standard, (_)Screen / non-certified
Turnaround time: (_)Standard 4 wks, (_)Rush ____ Days, (_)ASAP Verbal ____Hrs.

Remarks:

print legibly

~me1413.xls11/17/97

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 2567
MW#: 1
NJDEP ID#: 2926925
NJDEP CERT#: 13461
SAMPLING CONTRATOR: TVS
SAMPLER: RAY POGWIST

DATE: 12/2/97 WEATHER: WINDY 40'S

ELEVATION OF CASING SURVEY MARK:
DTW: 3.90
DEPTH OF WELL: 13.10
HEIGHT OF WATER: 9.2
9.2 X 0.65 X 3 = 17.94
GAL OF H2O TO BE EVACUATED: 18.0
PURGE METHOD (FLOW OF >0.5 TO <5.0 GPM) : PERISTALTIC
PURGE RATE IN GPM: 0.2
Hnu in PPM: 0

PURGE START TIME: 13.30
pH: 8.40 TEMP IN ° C: 13.0
DISSOLVED O_2 IN PPM: 2.0 SPECIFIC CONDUCTIVITY IN us/cm: 250

PURGE END TIME: 15:00
pH: 7.51 TEMP IN °C: 13.3
DISSOLVED O_2 IN PPM: 1.5 SPECIFIC CONDUCTIVITY IN us/cm: 80

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING IN FT: 4.20
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED IN GAL.: 18.0

pH: 7.55 TEMP IN °C: 13.3
DISSOLVED O_2 IN PPM: 1.4 SPECIFIC CONDUCTIVITY IN us/cm: 80

COMMENTS:_____

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 2567
MW#: 2
NJDEP ID#: 2926926
NJDEP CERT#: 13461
SAMPLING CONTRATOR: TVS
SAMPLER: RAY POGWIST

DATE: 12/2/97 WEATHER: WINDY 40'S

ELEVATION OF CASING SURVEY MARK:
DTW: 3.45
DEPTH OF WELL: 12.20
HEIGHT OF WATER: 8.75
8.75 X 0.65 X 3 = 17.0625
GAL OF H2O TO BE EVACUATED: 17.2
PURGE METHOD (FLOW OF >0.5 TO <5.0 GPM) : PERISTALTIC
PURGE RATE IN GPM: 0.2
Hnu in PPM: 0

PURGE START TIME: 9:30
pH: 7.74 TEMP IN ° C: 12.1
DISSOLVED O_2 IN PPM: 2.6 SPECIFIC CONDUCTIVITY IN us/cm: 350

PURGE END TIME: 10:56
pH: 7.31 TEMP IN °C: 13.5
DISSOLVED O_2 IN PPM: 1.9 SPECIFIC CONDUCTIVITY IN us/cm: 120

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING IN FT: 2.95
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED IN GAL.: 17.2

pH: 7.30 TEMP IN °C: 13.6
DISSOLVED O_2 IN PPM: 1.9 SPECIFIC CONDUCTIVITY IN us/cm: 120

COMMENTS:_____

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 2567
MW#: 3
NJDEP ID#: 2926947
NJDEP CERT#: 13461
SAMPLING CONTRATOR: TVS
SAMPLER: RAY POGWIST

DATE: 12/2/97 WEATHER: WINDY 40'S

ELEVATION OF CASING SURVEY MARK:
DTW: 3.10
DEPTH OF WELL: 12.50
HEIGHT OF WATER: 9.40
9.40 X 0.65 X 3 = 18.33
GAL OF H2O TO BE EVACUATED: 18.4
PURGE METHOD (FLOW OF >0.5 TO <5.0 GPM) : PERISTALTIC
PURGE RATE IN GPM: 0.2
Hnu in PPM: 0

PURGE START TIME: 13:40
pH: 7.53 TEMP IN ° C: 11.4
DISSOLVED O_2 IN PPM: 1.4 SPECIFIC CONDUCTIVITY IN us/cm: 160

PURGE END TIME: 15:12
pH: 7.53 TEMP IN °C: 12.3
DISSOLVED O_2 IN PPM: 1.0 SPECIFIC CONDUCTIVITY IN us/cm: 50

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING IN FT: 4.0
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED IN GAL.: 18.4

pH: 7.08 TEMP IN °C: 12.3
DISSOLVED O_2 IN PPM: 1.0 SPECIFIC CONDUCTIVITY IN us/cm: 50

COMMENTS:_____

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 2567
MW#: 4
NJDEP ID#: 2926948
NJDEP CERT#: 13461
SAMPLING CONTRATOR: TVS
SAMPLER: RAY POGWIST

DATE: 12/2/97 WEATHER: WINDY 40'S

ELEVATION OF CASING SURVEY MARK:
DTW: 2.45
DEPTH OF WELL: 11.50
HEIGHT OF WATER: 9.05
9.05 X 0.65 X 3 = 17.6475
GAL OF H2O TO BE EVACUATED: 17.8
PURGE METHOD (FLOW OF >0.5 TO <5.0 GPM) : PERISTALTIC
PURGE RATE IN GPM: 0.2
Hnu in PPM: 0

PURGE START TIME: 9:40
pH: 8.10 TEMP IN ° C: 9.0
DISSOLVED O_2 IN PPM: 1.9 SPECIFIC CONDUCTIVITY IN us/cm: 80

PURGE END TIME: 11:09
pH:7.75 TEMP IN °C: 10.5
DISSOLVED O_2 IN PPM: 1.5 SPECIFIC CONDUCTIVITY IN us/cm: 60

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING IN FT: 2.90
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED IN GAL.: 17.8

pH: 7.72 TEMP IN °C: 10.5
DISSOLVED O_2 IN PPM: 1.5 SPECIFIC CONDUCTIVITY IN us/cm: 60

COMMENTS:_____

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 2567
MW#: 5
NJDEP ID#: 2931783
NJDEP CERT#: 13461
SAMPLING CONTRATOR: TVS
SAMPLER: RAY POGWIST

DATE: 12/2/97 WEATHER: WINDY 40'S

ELEVATION OF CASING SURVEY MARK: 34.99
DTW: 7.20
DEPTH OF WELL: 14.75
HEIGHT OF WATER: 7.55
7.55 X 0.65 X 3 = 14.7225
GAL OF H2O TO BE EVACUATED: 14.8
PURGE METHOD (FLOW OF >0.5 TO <5.0 GPM) : PERISTALTIC
PURGE RATE IN GPM: 0.2
Hnu in PPM: 0

PURGE START TIME: 10:10
pH: 8.33 TEMP IN ° C: 7.6
DISSOLVED O_2 IN PPM: 3.1 SPECIFIC CONDUCTIVITY IN us/cm: 140

PURGE END TIME: 11:24
pH: 7.51 TEMP IN °C: 70
DISSOLVED O_2 IN PPM: 1.8 SPECIFIC CONDUCTIVITY IN us/cm: 70

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING IN FT: 7.80
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED IN GAL.: 14.8

pH: 7.50 TEMP IN °C: 9.2
DISSOLVED O_2 IN PPM: 1.8 SPECIFIC CONDUCTIVITY IN us/cm: 70

COMMENTS:_____

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v02489.d	Sample Name	VBLK03
Operator	Skelton	Field ID	VBLK03
Date Acquired	12/ 5/19 -1:0:	Sample Multiplier	1

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank

E = Value above linier range

D = Value from dilution

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v02513.d	Sample Name	VBLK04
Operator	Skelton	Field ID	VBLK04
Date Acquired	12/ 9/19 -1:1:	Sample Multiplier	1

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank
E = Value above linier range
D = Value from dilution

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v02494.d	Sample Name	3188.01
Operator	Skelton	Field ID	Trip Blank
Date Acquired	12/ 5/19 -1:4:	Sample Multiplier	1

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank

E = Value above linier range

D = Value from dilution

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v02495.d**	Sample Name	**3188.02**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**12/ 5/19 -1:5:**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank

E = Value above linier range

D = Value from dilution

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v02507.d	Sample Name	3188.06
Operator	Skelton	Field ID	MW1
Date Acquired	12/ 6/19 -1:0:	Sample Multiplier	1

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol	11.93	179920	356.86 ug/L	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether	14.01	128030	20.29 ug/L	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank

E = Value above linier range

D = Value from dilution

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v02504.d**	Sample Name	**3188.03**
Operator	**Skelton**	Field ID	**MW2**
Date Acquired	**12/ 5/19 -1:2:**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank

E = Value above linier range

D = Value from dilution

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v02508.d**	Sample Name	**3188.07**
Operator	**Skelton**	Field ID	**MW3**
Date Acquired	**12/ 6/19 -1:1:**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether	13.99	1177479	188.28 ug/L	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene	20.63	55309	4.31 ug/L	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank
E = Value above linier range
D = Value from dilution

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v02505.d**	Sample Name	**3188.04**
Operator	**Skelton**	Field ID	**MW4**
Date Acquired	**12/ 5/19 -1:3:**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank

E = Value above linier range

D = Value from dilution

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v02506.d	Sample Name	3188.05
Operator	Skelton	Field ID	MW5
Date Acquired	12/ 6/19 -1:0:	Sample Multiplier	1

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank
E = Value above linier range
D = Value from dilution

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**V02529.D**	Sample Name	**3188.08**
Operator	**Skelton**	Field ID	**Field Dup**
Date Acquired	**12/10/19 -1:7:**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

Qualifiers

B = Compound found in related blank
E = Value above linier range
D = Value from dilution

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

VBLK03

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3188 Location Bldg25 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLK03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02489.D

Level: (low/med) LOW Date Received: 12/02/98

% Moisture: not dec. Date Analyzed: 12/05/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

VBLK04

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3188 Location Bldg25 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLK04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02513.D

Level: (low/med) LOW Date Received: 12/02/98

% Moisture: not dec. Date Analyzed: 12/09/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Trip Blank

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3188 Location Bldg25 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3188.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02494.D

Level: (low/med) LOW Date Received: 12/02/98

% Moisture: not dec. Date Analyzed: 12/05/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3188 Location Bldg25 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3188.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02495.D

Level: (low/med) LOW Date Received: 12/02/98

% Moisture: not dec. Date Analyzed: 12/05/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	12.16	61	J
2.	unknown hydrocarbon	13.85	12	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW1

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3188 Location Bldg25 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3188.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02507.D

Level: (low/med) LOW Date Received: 12/02/98

% Moisture: not dec. Date Analyzed: 12/06/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW2

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3188 Location Bldg25 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3188.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02504.D

Level: (low/med) LOW Date Received: 12/02/98

% Moisture: not dec. Date Analyzed: 12/05/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW3

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3188 Location Bldg25 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3188.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02508.D

Level: (low/med) LOW Date Received: 12/02/98

% Moisture: not dec. Date Analyzed: 12/06/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 3

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	13.72	6	J
2.	unknown	17.27	18	J
3.	unknown hydrocarbon	20.22	6	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW4

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3188 Location Bldg25 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3188.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02505.D

Level: (low/med) LOW Date Received: 12/02/98

% Moisture: not dec. Date Analyzed: 12/05/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	13.83	7	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW5

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3188 Location Bldg25 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3188.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02506.D

Level: (low/med) LOW Date Received: 12/02/98

% Moisture: not dec. Date Analyzed: 12/06/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Dup

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3188 Location Bldg25 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3188.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V02529.D

Level: (low/med) LOW Date Received: 12/02/98

% Moisture: not dec. Date Analyzed: 12/10/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000090-12-0	Naphthalene, 1-methyl-	30.42	13	JN

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**BN0773.D**	Sample Name	**SBLK09**
Operator	**Skelton**	Field ID	**12/05/97**
Date Acquired	**12/10/97 19:58**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate			not detected	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bn0776.d	Sample Name	3188.02
Operator	Skelton	Field ID	Field Blank
Date Acquired	12/11/97 09:26	Sample Multiplier	1

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.26	229150	1.68 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate	25.26	343742	4.94 ug/L	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn0780.d**	Sample Name	**3188.06**
Operator	**Skelton**	Field ID	**MW1**
Date Acquired	**12/11/97 12:31**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether	9.14	86272	0.95 ug/L	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine	16.93	32010	0.69 ug/L	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.26	561903	3.82 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate	25.26	93695	1.25 ug/L	0.51 ug/L	30
117-84-0	Di-n-octylphthalate	26.64	123864	0.93 ug/L	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn0777.d**	Sample Name	**3188.03**
Operator	**Skelton**	Field ID	**MW2**
Date Acquired	**12/11/97 10:12**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene	11.00	623454	4.79 ug/L	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.25	158168	1.08 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn0841.d**	Sample Name	**3188.07**
Operator	**Skelton**	Field ID	**MW3**
Date Acquired	**12/29/97 20:30**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine	5.47	25539	84.52 ug/L	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene	10.96	248518	1.92 ug/L	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.22	567120	3.89 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn0778.d**	Sample Name	**3188.04**
Operator	**Skelton**	Field ID	**MW4**
Date Acquired	**12/11/97 10:58**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.26	203098	1.37 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn0779.d**	Sample Name	**3188.05**
Operator	**Skelton**	Field ID	**MW5**
Date Acquired	**12/11/97 11:44**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.25	197981	1.29 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn0842.d**	Sample Name	**3188.08**
Operator	**Skelton**	Field ID	**Field Dup**
Date Acquired	**12/29/97 21:13**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.22	276549	1.79 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

SBLK09

Lab Name: FMETL Lab Code 13461 2567

Project Case No.: 3221 Location B.2700 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: SBLK09

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0773.D

Level: (low/med) LOW Date Received: 12/12/97

% Moisture: decanted: (Y/N) N Date Analyzed: 12/10/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.03	41	J
2. 000103-23-1	Hexanedioic acid, bis(2-ethylhexy	24.11	290	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3188 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3188.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0776.D

Level: (low/med) LOW Date Received: 12/02/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 12/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.03	38	J
2. 000103-23-1	Hexanedioic acid, bis(2-ethylhexy	24.13	390	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW1

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3188 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3188.06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0870.D

Level: (low/med) LOW Date Received: 12/02/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 12/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.00	31	J
2. 000103-23-1	Hexanedioic acid, bis(2-ethylhexy	24.08	260	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW2

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3188 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3188.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0777.D

Level: (low/med) LOW Date Received: 12/02/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 12/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.03	30	J
2. 000103-23-1	Hexanedioic acid, bis(2-ethylhexy	24.12	260	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW3

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3188 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3188.07

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0841.D

Level: (low/med) LOW Date Received: 12/02/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 12/29/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 4

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.00	32	J
2. 000496-11-7	Indane	8.55	11	JN
3.	unknown hydrocarbon	19.28	9	J
4. 000103-23-1	Hexanedioic acid, bis(2-ethylhexy	24.08	210	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW4

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3188 Location B.02567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3188.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0778.D

Level: (low/med) LOW Date Received: 12/02/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 12/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.02	30	J
2. 000103-23-1	Hexanedioic acid, bis(2-ethylhexy	24.13	320	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW5

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3188 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3188.05

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0779.D

Level: (low/med) LOW Date Received: 12/02/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 12/11/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.04	43	J
2. 000103-23-1	Hexanedioic acid, bis(2-ethylhexy	24.13	300	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Dup

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3188 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3188.08

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0842.D

Level: (low/med) LOW Date Received: 12/02/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 12/29/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.00	30	J
2. 000103-23-1	Hexanedioic acid, bis(2-ethylhexy	24.09	210	JN

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	Extraction Blank
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	12/3/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	1/7/98
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3188.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	12/2/97
	Bldg. 173	**Extraction Date:**	12/3/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	1/7/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2567
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3188.06
	DPW, SELFM-PW-EV	**Date Rec'd:**	12/2/97
	Bldg. 173	**Extraction Date:**	12/3/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	1/7/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2567
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-1
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3188.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	12/2/97
	Bldg. 173	**Extraction Date:**	12/3/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	1/7/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2567
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-2
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3188.07
	DPW, SELFM-PW-EV	**Date Rec'd:**	12/2/97
	Bldg. 173	**Extraction Date:**	12/3/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	1/7/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2567
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-3
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3188.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	12/2/97
	Bldg. 173	**Extraction Date:**	12/3/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	1/7/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2567
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-4
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3188.05
	DPW, SELFM-PW-EV	**Date Rec'd:**	12/2/97
	Bldg. 173	**Extraction Date:**	12/3/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	1/7/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2567
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-5
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3188.08
	DPW, SELFM-PW-EV	**Date Rec'd:**	12/2/97
	Bldg. 173	**Extraction Date:**	12/3/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	1/7/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2567
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field DUP
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: NA

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/29/98	ND	200	10.0
Antimony	01/29/98	ND	20	2.0
Arsenic	01/29/98	ND	8	2.0
Barium	01/29/98	ND	2000	0.5
Beryllium	01/29/98	ND	20	0.5
Cadmium	01/29/98	ND	4	0.5
Calcium	01/29/98	ND	NLE	10.0
Chromium	01/29/98	ND	100	0.5
Cobalt	01/29/98	ND	NLE	0.5
Copper	01/29/98	ND	1000	3.0
Iron	01/29/98	ND	300	5.0
Lead	01/29/98	ND	10	2.0
Magnesium	01/29/98	ND	NLE	10.0
Manganese	01/29/98	ND	50	0.5
Mercury	12/16/97	0.4	2	0.2
Nickel	01/29/98	ND	100	0.5
Potassium	01/29/98	ND	NLE	10.0
Selenium	01/29/98	ND	50	3.0
Silver	01/29/98	ND	20	3.0
Sodium	01/29/98	ND	50000	10.0
Thallium	01/29/98	ND	10	3.0
Vanadium	01/29/98	ND	NLE	1.0
Zinc	01/29/98	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3188.02
Sample Received: 12/02/97
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/29/98	63.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	3.1	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	950.0	NLE	20.0
Chromium	01/29/98	ND	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	11.0	1000	6.0
Iron	01/29/98	58.0	300	10.0
Lead	01/29/98	4.0	10	4.0
Magnesium	01/29/98	180.0	NLE	20.0
Manganese	01/29/98	1.6	50	1.0
Mercury	12/16/97	0.4	2	0.2
Nickel	01/29/98	3.9	100	1.0
Potassium	01/29/98	ND	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	660.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	43.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3188.06
Sample Received: 12/02/97
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: MW-1

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/29/98	128.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	356.7	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	46880.0	NLE	20.0
Chromium	01/29/98	1.8	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	40.0	1000	6.0
Iron	01/29/98	4112.0	300	10.0
Lead	01/29/98	7.0	10	4.0
Magnesium	01/29/98	4970.0	NLE	20.0
Manganese	01/29/98	92.8	50	1.0
Mercury	12/16/97	0.4	2	0.2
Nickel	01/29/98	2.4	100	1.0
Potassium	01/29/98	7120.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	76190.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	63.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3188.03
Sample Received: 12/02/97
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: MW-2

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/29/98	78.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	796.2	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	67840.0	NLE	20.0
Chromium	01/29/98	1.7	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	8.0	1000	6.0
Iron	01/29/98	16290.0	300	10.0
Lead	01/29/98	20.0	10	4.0
Magnesium	01/29/98	7520.0	NLE	20.0
Manganese	01/29/98	271.8	50	1.0
Mercury	12/16/97	0.4	2	0.2
Nickel	01/29/98	3.9	100	1.0
Potassium	01/29/98	8730.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	58690.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	53.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3188.07
Sample Received: 12/02/97
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: MW-3

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/29/98	341.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	212.1	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	27450.0	NLE	20.0
Chromium	01/29/98	1.5	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	79.0	1000	6.0
Iron	01/29/98	5342.0	300	10.0
Lead	01/29/98	10.0	10	4.0
Magnesium	01/29/98	2910.0	NLE	20.0
Manganese	01/29/98	56.6	50	1.0
Mercury	12/16/97	0.4	2	0.2
Nickel	01/29/98	2.0	100	1.0
Potassium	01/29/98	5440.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	26920.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	81.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3188.04
Sample Received: 12/02/97
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: MW-4

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/29/98	1208.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	156.0	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	19850.0	NLE	20.0
Chromium	01/29/98	9.0	100	1.0
Cobalt	01/29/98	1.7	NLE	1.0
Copper	01/29/98	14.0	1000	6.0
Iron	01/29/98	3586.0	300	10.0
Lead	01/29/98	9.0	10	4.0
Magnesium	01/29/98	2320.0	NLE	20.0
Manganese	01/29/98	90.0	50	1.0
Mercury	12/16/97	0.3	2	0.2
Nickel	01/29/98	4.8	100	1.0
Potassium	01/29/98	2810.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	15600.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	3.0	NLE	2.0
Zinc	01/29/98	57.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3188.05
Sample Received: 12/02/97
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: MW-5

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/29/98	406.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	93.1	2000	1.0
Beryllium	01/29/98	1.3	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	21120.0	NLE	20.0
Chromium	01/29/98	5.5	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	14.0	1000	6.0
Iron	01/29/98	19180.0	300	10.0
Lead	01/29/98	7.0	10	4.0
Magnesium	01/29/98	3410.0	NLE	20.0
Manganese	01/29/98	100.2	50	1.0
Mercury	12/16/97	0.4	2	0.2
Nickel	01/29/98	6.5	100	1.0
Potassium	01/29/98	3530.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	10480.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	5.0	NLE	2.0
Zinc	01/29/98	91.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3188.08
Sample Received: 12/02/97
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: Field Dup.

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	01/29/98	81.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	3.7	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	800.0	NLE	20.0
Chromium	01/29/98	ND	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	12.0	1000	6.0
Iron	01/29/98	63.0	300	10.0
Lead	01/29/98	8.0	10	4.0
Magnesium	01/29/98	150.0	NLE	20.0
Manganese	01/29/98	1.7	50	1.0
Mercury	12/16/97	0.2	2	0.2
Nickel	01/29/98	1.5	100	1.0
Potassium	01/29/98	ND	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	600.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	35.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3381.03	MW-01	29-26925	03/04/98
3381.04	MW-02	29-26926	03/04/98
3381.05	MW-03	29-26947	03/04/98
3381.06	MW-04	29-26948	03/04/98
3381.08	MW-05	29-31783	03/04/98

NJDEP Laboratory Certification # 13461

Report Date: 18 February, 1998

Daniel Wright
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Joseph Fallon SELFM-PW-EV
Phone #: (732) 532-6223
(X)DERA Long Term Monitoring

Project No: IJN 98-0211
Location: BLDG. 2567

Samplers Name / Company : DANE / MARK **TVS PWS-007**

Analysis Parameters

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA+15	Metals	PEST. PCB	ABN+25				OVA	Remarks / Preservation Method
3381.01	TRIP BLANK	3/4/98	0750	AQ	2	✓								All samples kept <4 degrees C
02	FIELD BLANK		0945		5	✓	✓	✓	✓				N/A	VOA pres. W/ HCL
03	MW-1 (29262925)		1140		5	✓	✓	✓	✓				N/A	Metals pres. W/ HNO_3
04	MW-2 (29262926)		1147		5	✓	✓	✓	✓				N/A	
05	MW-3 (29262947)		1230		5	✓	✓	✓	✓				N/A	
06	MW-4 (29262948)		1235		5	✓	✓	✓	✓				N/A	
07	FIELD DUP		—		5	✓	✓	✓	✓				N/A	
08	MW-5 (29317783)		1400		5	✓	✓	✓	✓					

Comments:

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
D. Dee	3/4/98 1515	J. Vergilia			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (X) DERA long term monitoring format
Turnaround time: (X)Standard 4 wks, ( )Rush ____ Days, ( )ASAP Verbal ____Hrs.

Remarks:

print legibly

Page ____ of ____

Custodyderaltm3/3/98

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 2567
MW# 1
NJDEP ID# 2926925
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER DAVE DEINHARDT/MARK LAURA

DATE: 03/04/98 WEATHER: SUNNY COOL, 40'S

ELEVATION OF CASING SURVEY MARK
DTW: 3.51
DEPTH OF WELL: 13.10
HEIGHT OF WATER: 9.59
9.59 X 0.65 X ____3____ =18.7
GAL OF H2O TO BE EVACUATED 18.7 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.156 GPM
Hnu READING N/A BROKEN

PURGE START TIME: 9:40
pH: 7.87 TEMP 10.4 DEG °C
DISSOLVED O2 3.5 PPM SPECIFIC CONDUCTIVITY 100 us/cm

PURGE END TIME
pH: 11:40 TEMP 11.3 DEG °C
DISSOLVED O2 3.2 PPM SPECIFIC CONDUCTIVITY 110 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 4.2 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 18.7 GAL

pH: 7.64 TEMP 10.2 DEG °C
DISSOLVED O2 4.1 PPM SPECIFIC CONDUCTIVITY 110 us/cm

COMMENTS:_____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 2567
MW#_2
NJDEP ID# 2926926
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER DAVE DEINHARDT/MARK LAURA

DATE: 03/04/98 WEATHER: SUNNY COOL, 40'S

ELEVATION OF CASING SURVEY MARK
DTW: 2.92
DEPTH OF WELL: 12.20
HEIGHT OF WATER: 9.28
9.28 X 0.65 X ____3____ = 18.1
GAL OF H2O TO BE EVACUATED 18.1 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 1.2 GPM
Hnu READING N/A BROKEN

PURGE START TIME: 10:17
pH: 8.04 TEMP 10.7 DEG °C
DISSOLVED O2 3.2 PPM SPECIFIC CONDUCTIVITY 95 us/cm

PURGE END TIME: 11.47
pH: 7.30 TEMP 10.9 DEG °C
DISSOLVED O2 4.0 PPM SPECIFIC CONDUCTIVITY 110 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 3.61 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 18.1 GAL

pH: 7.71 TEMP 10.2 DEG °C
DISSOLVED O2 5.4 PPM SPECIFIC CONDUCTIVITY 80 us/cm

COMMENTS:_____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 2567
MW#_3
NJDEP ID# 2926947
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER DAVE DEINHARDT/MARK LAURA

DATE: 03/04/98 WEATHER: SUNNY COOL, 40'S

ELEVATION OF CASING SURVEY MARK
DTW: 2.48
DEPTH OF WELL: 12.50
HEIGHT OF WATER: 10.02
10.02 X 0.65 X ____3____ = 19.5
GAL OF H2O TO BE EVACUATED 19.5 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.177 GPM
Hnu READING N/A BROKEN

PURGE START TIME: 10:40
pH: 8.16 TEMP 10.8 DEG °C
DISSOLVED O2 4.2 PPM SPECIFIC CONDUCTIVITY 50 us/cm

PURGE END TIME: 12:30
pH: 7.16 TEMP 10.6 DEG °C
DISSOLVED O2 2.9 PPM SPECIFIC CONDUCTIVITY 100 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 4.49 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 19.5 GAL

pH: 7.20 TEMP 10.4 DEG °C
DISSOLVED O2 3.5 PPM SPECIFIC CONDUCTIVITY 100 us/cm

COMMENTS:_____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 2567
MW#_4
NJDEP ID# 2926948
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER DAVE DEINHARDT/MARK LAURA

DATE: 03/04/98 WEATHER: SUNNY COOL, 40'S

ELEVATION OF CASING SURVEY MARK
DTW: 2.11
DEPTH OF WELL: 11.60
HEIGHT OF WATER: 9.49
9.49 X 0.65 X ____3____ = 18.5
GAL OF H2O TO BE EVACUATED 18.5 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.148 GPM
Hnu READING N/A BROKEN

PURGE START TIME: 10:59
pH: 8.22 TEMP 9.4 DEG °C
DISSOLVED O2 4.0 PPM SPECIFIC CONDUCTIVITY 70 us/cm

PURGE END TIME: 12:35
pH: 7.42 TEMP 8.9 DEG °C
DISSOLVED O2 3.9 PPM SPECIFIC CONDUCTIVITY 70 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 2.42 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 18.5 GAL

pH: 7.55 TEMP 8.3 DEG °C
DISSOLVED O2 3.5 PPM SPECIFIC CONDUCTIVITY 60 us/cm

COMMENTS:_____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG: 2567
MW# 5
NJDEP ID# 2931783
NJDEP CERT# 13461
SAMPLING CONTRACTOR TVS
SAMPLER DAVE DEINHARDT/MARK LAURA

DATE: 03/04/98 WEATHER: SUNNY COOL, 40'S

ELEVATION OF CASING SURVEY MARK
DTW: 7.3
DEPTH OF WELL: 14.75
HEIGHT OF WATER 7.45
7.45 X 0.65 X ____3____ = 14.5
GAL OF H2O TO BE EVACUATED 14.5 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) __PERISTALIC___
PURGE RATE 0.2 GPM
Hnu READING N/A BROKEN

PURGE START TIME: 12:19
pH: 7.62 TEMP 9.3 DEG °C
DISSOLVED O2 4.6 PPM SPECIFIC CONDUCTIVITY 60 us/cm

PURGE END TIME: 14:00
pH: 7.28 TEMP 8.6 DEG °C
DISSOLVED O2 5.0 PPM SPECIFIC CONDUCTIVITY 60 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 7.15 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 14.5 GAL

pH: 7.14 TEMP 7.9 DEG °C
DISSOLVED O2 2.6 PPM SPECIFIC CONDUCTIVITY 60 us/cm

COMMENTS: T.O.C.-3.25 GROUND SURFACE

Organic Data Qualifiers

Form 1:

This form reports concentrations of Tentatively Identified Compounds. Form 1E is the Volatile report, Form 1F is for Semi-Volatiles.

Qualifiers are:

J	Estimated Value
N	Presumptive evidence of a compound
E	Concentration exceeds calibration range
D	Diluted sample
A	TIC is a suspected aldol condensation product

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v03084.d	Sample Name	VBLK29
Operator	Skelton	Field ID	VBLK29
Date Acquired	6 Mar 1998 10:55	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v03108.d	Sample Name	VBLK30
Operator	Skelton	Field ID	VBLK30
Date Acquired	9 Mar 1998 13:12	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v03087.d	Sample Name	3381.01
Operator	Skelton	Field ID	Trip Blank
Date Acquired	6 Mar 1998 13:25	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v03088.d	Sample Name	3381.02
Operator	Skelton	Field ID	Field Blank
Date Acquired	6 Mar 1998 14:11	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v03094.d	Sample Name	3381.03
Operator	Skelton	Field ID	MW1
Date Acquired	6 Mar 1998 18:56	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol	11.97	209321	726.77 ug/L	nle	12.50 ug/L	E
1634044	Methyl-tert-Butyl ether	14.02	195565	43.07 ug/L	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v03109.d	Sample Name	3381.03
Operator	Skelton	Field ID	MW1
Date Acquired	9 Mar 1998 13:59	Sample Multiplier	5

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	31.25 ug/L	
107131	Acrylonitrile			not detected	nle	31.25 ug/L	
75650	tert-Butyl alcohol	12.00	34982	560.32 ug/L	nle	62.50 ug/L	D
1634044	Methyl-tert-Butyl ether	14.04	35857	36.80 ug/L	nle	12.50 ug/L	D
108203	Di-isopropyl ether			not detected	nle	6.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	18.15 ug/L	
74-87-3	Chloromethane			not detected	30	3.95 ug/L	
75-01-4	Vinyl Chloride			not detected	5	13.05 ug/L	
74-83-9	Bromomethane			not detected	10	7.25 ug/L	
75-00-3	Chloroethane			not detected	nle	11.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	6.55 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	3.70 ug/L	
67-64-1	Acetone			not detected	700	7.85 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	2.70 ug/L	
75-09-2	Methylene Chloride			not detected	2	8.30 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	2.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	4.15 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	10.35 ug/L	
78-93-3	2-Butanone			not detected	300	10.30 ug/L	
	cis-1,2-Dichloroethene			not detected	10	3.25 ug/L	
67-66-3	Chloroform			not detected	6	2.15 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	4.05 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	6.00 ug/L	
71-43-2	Benzene			not detected	1	2.55 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	6.35 ug/L	
79-01-6	Trichloroethene			not detected	1	4.70 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	3.90 ug/L	
75-27-4	Bromodichloromethane			not detected	1	3.85 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	5.25 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	3.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	6.65 ug/L	
108-88-3	Toluene			not detected	1000	3.65 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	7.15 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	7.45 ug/L	
127-18-4	Tetrachloroethene			not detected	1	4.60 ug/L	
591-78-6	2-Hexanone			not detected	nle	5.60 ug/L	
126-48-1	Dibromochloromethane			not detected	10	6.80 ug/L	
108-90-7	Chlorobenzene			not detected	4	3.30 ug/L	
100-41-4	Ethylbenzene			not detected	700	5.70 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	12.65 ug/L	
1330-20-7	o-Xylene			not detected	nle	9.60 ug/L	
100-42-5	Styrene			not detected	100	7.85 ug/L	
75-25-2	Bromoform			not detected	4	8.40 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	8.55 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	12.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	15.40 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	13.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v03095.d	Sample Name	3381.04
Operator	Skelton	Field ID	MW2
Date Acquired	6 Mar 1998 19:44	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v03096.d	Sample Name	3381.05
Operator	Skelton	Field ID	MW3
Date Acquired	6 Mar 1998 20:31	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether	14.02	408344	102.09 ug/L	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene	20.64	136917	18.71 ug/L	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes	29.56	20280	8.64 ug/L	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v03097.d	Sample Name	3381.06
Operator	Skelton	Field ID	MW4
Date Acquired	6 Mar 1998 21:18	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v03099.d	Sample Name	3381.08
Operator	Skelton	Field ID	MW5
Date Acquired	6 Mar 1998 22:53	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v03098.d	Sample Name	3381.07
Operator	Skelton	Field ID	Field Dup
Date Acquired	6 Mar 1998 22:05	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether	14.03	381281	84.18 ug/L	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene	20.63	116977	14.65 ug/L	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes	29.55	21530	7.48 ug/L	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

VBLK29

Lab Name: FMETL Project 980211

NJDEP # 13461 Case No.: 3381 Location B2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLK29

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03084.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

VBLK30

Lab Name: FMETL Project 980211

NJDEP # 13461 Case No.: 3381 Location B2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: VBLK30

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03108.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: not dec. _____ Date Analyzed: 03/09/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Trip Blank

Lab Name: FMETL Project 980211

NJDEP # 13461 Case No.: 3381 Location B2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3381.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03087.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Project 980211

NJDEP # 13461 Case No.: 3381 Location B2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3381.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03088.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	13.84	7	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW1

Lab Name: FMETL Project 980211

NJDEP # 13461 Case No.: 3381 Location B2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3381.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03094.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	13.85	38	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW2

Lab Name: FMETL Project 980211

NJDEP # 13461 Case No.: 3381 Location B2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3381.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03095.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW3

Lab Name: FMETL Project 980211

NJDEP # 13461 Case No.: 3381 Location B2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3381.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03096.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 8

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	12.69	16	J
2.	unknown	13.84	170	J
3.	unknown hydrocarbon	16.62	8	J
4. 000096-37-7	Cyclopentane, methyl-	17.29	120	JN
5.	unknown hydrocarbon	18.93	4	J
6.	unknown	18.94	5	J
7.	unknown hydrocarbon	19.49	29	J
8. 000098-82-8	Benzene, (1-methylethyl)-	31.52	10	JN

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW4

Lab Name: FMETL Project 980211

NJDEP # 13461 Case No.: 3381 Location B2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3381.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03097.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	13.84	36	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW5

Lab Name: FMETL Project 980211

NJDEP # 13461 Case No.: 3381 Location B2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3381.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03099.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	13.84	14	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Dup

Lab Name: FMETL Project 980211

NJDEP # 13461 Case No.: 3381 Location B2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3381.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V03098.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: not dec. Date Analyzed: 03/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 5

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	13.74	19	J
2. 000096-37-7	Cyclopentane, methyl-	17.29	83	JN
3.	unknown	18.94	6	J
4.	unknown	19.49	7	J
5. 000098-82-8	Benzene, (1-methylethyl)-	31.52	10	JN

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	BN1100.D	Sample Name	SBLK 33
Operator	FITZPATRICK	Misc Info	SBLK 33 3-5-98
Date Acquired	03/10/98 15:25	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**BN1100.D**	Sample Name	**SBLK 33**
Operator	**FITZPATRICK**	Misc Info	**SBLK 33 3-5-98**
Date Acquired	**03/10/98 15:25**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn1114.d**	Sample Name	**3381.02**
Operator	**FITZPATRICK**	Misc Info	**FIELD BLANK**
Date Acquired	**03/11/98 02:17**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**bn1114.d**	Sample Name	**3381.02**
Operator	**FITZPATRICK**	Misc Info	**FIELD BLANK**
Date Acquired	**03/11/98 02:17**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn1115.d**	Sample Name	**3381.03**
Operator	**FITZPATRICK**	Misc Info	**MW-1**
Date Acquired	**03/11/98 03:03**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**bn1115.d**	Sample Name	**3381.03**
Operator	**FITZPATRICK**	Misc Info	**MW-1**
Date Acquired	**03/11/98 03:03**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn1116.d**	Sample Name	**3381.04**
Operator	**FITZPATRICK**	Misc Info	**MW-2**
Date Acquired	**03/11/98 03:48**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**bn1116.d**	Sample Name	**3381.04**
Operator	**FITZPATRICK**	Misc Info	**MW-2**
Date Acquired	**03/11/98 03:48**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	25.17	366079	6.98 ug/L	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn1117.d**	Sample Name	**3381.05**
Operator	**FITZPATRICK**	Misc Info	**MW-3**
Date Acquired	**03/11/98 04:34**	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene	10.92	142270	1.67 ug/L	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L.	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**bn1117.d**	Sample Name	**3381.05**
Operator	**FITZPATRICK**	Misc Info	**MW-3**
Date Acquired	**03/11/98 04:34**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	25.16	71554	1.29 ug/L	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bn1118.d	Sample Name	3381.06
Operator	FITZPATRICK	Misc Info	MW-4
Date Acquired	03/11/98 05:19	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**bn1118.d**	Sample Name	**3381.06**
Operator	**FITZPATRICK**	Misc Info	**MW-4**
Date Acquired	**03/11/98 05:19**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	25.17	47230	1.03 ug/L	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	bn1120.d	Sample Name	3381.08
Operator	FITZPATRICK	Misc Info	MW-5
Date Acquired	03/11/98 06:48	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**bn1120.d**	Sample Name	**3381.08**
Operator	**FITZPATRICK**	Misc Info	**MW-5**
Date Acquired	**03/11/98 06:48**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**bn1119.d**	Sample Name	**3381.07**
Operator	**FITZPATRICK**	Misc Info	**FIELD DUP**
Date Acquired	**03/11/98 06:04**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene	10.92	169237	2.04 ug/L	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42	ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26	ug/L	
83-32-9	Acenaphthene			not detected	400	0.26	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name	**bn1119.d**	Sample Name	**3381.07**
Operator	**FITZPATRICK**	Misc Info	**FIELD DUP**
Date Acquired	**03/11/98 06:04**	Sample Multiplier	**1**

121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	25.17	50113	1.09 ug/L	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

SBLK 33

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3381 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: SBLK 33

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1100.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/10/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

FIELD BLANK

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3381 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3381.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1114.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/11/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW 1

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3381 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3381.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1115.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/11/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000088-09-5	Butanoic acid, 2-ethyl-	9.15	20	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW 2

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3381 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3381.04

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1116.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/11/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW 3

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3381 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3381.05

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1117.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/11/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000095-36-3	1,2,4-Trimethylbenzene	8.28	9	JN
2. 000496-11-7	Indane	8.51	18	JN
3. 000057-10-3	Hexadecanoic acid	20.13	10	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW 4

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3381 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3381.06

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1118.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/11/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW 5

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3381 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3381.08

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1120.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/11/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

FIELD DUP

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 3381 Location B.2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3381.07

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN1119.D

Level: (low/med) LOW Date Received: 03/04/98

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 03/11/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000098-82-8	Benzene, (1-methylethyl)-	6.49	8	JN
2. 000095-36-3	1,2,4-Trimethylbenzene	8.28	10	JN
3. 000496-11-7	Indane	8.51	20	JN

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	Extraction Blank
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	3/5/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/22/98
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3381.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	3/4/98
	Bldg. 173	**Extraction Date:**	3/5/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/22/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2657
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3381.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	3/4/98
	Bldg. 173	**Extraction Date:**	3/5/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/22/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2657
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-1
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3381.04
	DPW, SELFM-PW-EV	**Date Rec'd:**	3/4/98
	Bldg. 173	**Extraction Date:**	3/5/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/22/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2657
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-2
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3381.05
	DPW, SELFM-PW-EV	**Date Rec'd:**	3/4/98
	Bldg. 173	**Extraction Date:**	3/5/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/22/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2657
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-3
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3381.06
	DPW, SELFM-PW-EV	**Date Rec'd:**	3/4/98
	Bldg. 173	**Extraction Date:**	3/5/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/22/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2657
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-4
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3381.07
	DPW, SELFM-PW-EV	**Date Rec'd:**	3/6/98
	Bldg. 173	**Extraction Date:**	3/3/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/22/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2567
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	Field DUP
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	3381.08
	DPW, SELFM-PW-EV	**Date Rec'd:**	3/6/98
	Bldg. 173	**Extraction Date:**	3/3/98
	Ft. Monmouth, NJ 07703	**Analysis Date:**	3/22/98

Analysis:	EPA Method 608	**Location :**	Bldg. 2567
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	MW-5
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NLE = No Limit Established

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: 03/04/98
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: NA

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	ND	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	ND	8	4.0
Barium	03/17/98	ND	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	ND	4	1.0
Calcium	03/17/98	ND	NLE	20.0
Chromium	03/17/98	ND	100	1.0
Cobalt	03/17/98	ND	NLE	1.0
Copper	03/17/98	ND	1000	6.0
Iron	03/17/98	ND	300	10.0
Lead	03/17/98	ND	10	4.0
Magnesium	03/17/98	ND	NLE	20.0
Manganese	03/17/98	ND	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	ND	100	1.0
Potassium	03/17/98	ND	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	ND	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	ND	NLE	2.0
Zinc	03/17/98	ND	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3381.02
Sample Received: 03/04/98
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	150	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	ND	8	4.0
Barium	03/17/98	8.5	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	ND	4	1.0
Calcium	03/17/98	730	NLE	20.0
Chromium	03/17/98	ND	100	1.0
Cobalt	03/17/98	ND	NLE	1.0
Copper	03/17/98	9.0	1000	6.0
Iron	03/17/98	154	300	10.0
Lead	03/17/98	ND	10	4.0
Magnesium	03/17/98	150	NLE	20.0
Manganese	03/17/98	169.7	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	1.9	100	1.0
Potassium	03/17/98	ND	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	630	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	ND	NLE	2.0
Zinc	03/17/98	7.0	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3381.03
Sample Received: 03/04/98
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: MW-1

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	186	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	ND	8	4.0
Barium	03/17/98	367.1	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	ND	4	1.0
Calcium	03/17/98	52030	NLE	20.0
Chromium	03/17/98	3.0	100	1.0
Cobalt	03/17/98	ND	NLE	1.0
Copper	03/17/98	23	1000	6.0
Iron	03/17/98	5774	300	10.0
Lead	03/17/98	ND	10	4.0
Magnesium	03/17/98	5480	NLE	20.0
Manganese	03/17/98	107.6	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	2.9	100	1.0
Potassium	03/17/98	7390	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	48910	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	ND	NLE	2.0
Zinc	03/17/98	37	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3381.04
Sample Received: 03/04/98
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: MW-2

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	261	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	ND	8	4.0
Barium	03/17/98	188.9	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	ND	4	1.0
Calcium	03/17/98	21250	NLE	20.0
Chromium	03/17/98	1.9	100	1.0
Cobalt	03/17/98	ND	NLE	1.0
Copper	03/17/98	23	1000	6.0
Iron	03/17/98	12450	300	10.0
Lead	03/17/98	8.0	10	4.0
Magnesium	03/17/98	2030	NLE	20.0
Manganese	03/17/98	99.6	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	2.5	100	1.0
Potassium	03/17/98	7880	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	26640	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	ND	NLE	2.0
Zinc	03/17/98	93	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3381.05
Sample Received: 03/04/98
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: MW-3

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	1832	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	ND	8	4.0
Barium	03/17/98	356.5	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	ND	4	1.0
Calcium	03/17/98	39820	NLE	20.0
Chromium	03/17/98	3.8	100	1.0
Cobalt	03/17/98	ND	NLE	1.0
Copper	03/17/98	22	1000	6.0
Iron	03/17/98	13860	300	10.0
Lead	03/17/98	ND	10	4.0
Magnesium	03/17/98	4560	NLE	20.0
Manganese	03/17/98	144.4	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	1.7	100	1.0
Potassium	03/17/98	6460	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	39610	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	2.0	NLE	2.0
Zinc	03/17/98	30	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3381.06
Sample Received: 03/04/98
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: MW-4

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	608	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	ND	8	4.0
Barium	03/17/98	103.9	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	2.2	4	1.0
Calcium	03/17/98	14720	NLE	20.0
Chromium	03/17/98	1.5	100	1.0
Cobalt	03/17/98	2.5	NLE	1.0
Copper	03/17/98	11	1000	6.0
Iron	03/17/98	4212	300	10.0
Lead	03/17/98	ND	10	4.0
Magnesium	03/17/98	1700	NLE	20.0
Manganese	03/17/98	78.6	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	10.8	100	1.0
Potassium	03/17/98	ND	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	12580	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	ND	NLE	2.0
Zinc	03/17/98	79	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3381.08
Sample Received: 03/04/98
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: MW-5

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/19/98	362.6	200	20.0
Antimony	03/19/98	ND	20	4.0
Arsenic	03/19/98	ND	8	4.0
Barium	03/19/98	58.9	2000	1.0
Beryllium	03/19/98	ND	20	1.0
Cadmium	03/19/98	ND	4	1.0
Calcium	03/19/98	12180	NLE	20.0
Chromium	03/19/98	ND	100	1.0
Cobalt	03/19/98	ND	NLE	1.0
Copper	03/19/98	13.4	1000	6.0
Iron	03/19/98	16370	300	10.0
Lead	03/19/98	ND	10	4.0
Magnesium	03/19/98	1961	NLE	20.0
Manganese	03/19/98	56.4	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/19/98	3.4	100	1.0
Potassium	03/19/98	2675	NLE	20.0
Selenium	03/19/98	ND	50	6.0
Silver	03/19/98	ND	20	6.0
Sodium	03/19/98	9134	50000	20.0
Thallium	03/19/98	ND	10	6.0
Vanadium	03/19/98	6.8	NLE	2.0
Zinc	03/19/98	43.8	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3381.07
Sample Received: 03/04/98
Sample Matrix: Aqueous

Site: Bldg. 2567
Ft. Monmouth, New Jersey

Field ID#: Field Dup.

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Aluminum	03/17/98	2564	200	20.0
Antimony	03/17/98	ND	20	4.0
Arsenic	03/17/98	ND	8	4.0
Barium	03/17/98	371.3	2000	1.0
Beryllium	03/17/98	ND	20	1.0
Cadmium	03/17/98	ND	4	1.0
Calcium	03/17/98	41390	NLE	20.0
Chromium	03/17/98	4.5	100	1.0
Cobalt	03/17/98	ND	NLE	1.0
Copper	03/17/98	24	1000	6.0
Iron	03/17/98	15030	300	10.0
Lead	03/17/98	ND	10	4.0
Magnesium	03/17/98	4760	NLE	20.0
Manganese	03/17/98	206.8	50	1.0
Mercury	03/17/98	ND	2	0.2
Nickel	03/17/98	2.2	100	1.0
Potassium	03/17/98	7080	NLE	20.0
Selenium	03/17/98	ND	50	6.0
Silver	03/17/98	ND	20	6.0
Sodium	03/17/98	41060	50000	20.0
Thallium	03/17/98	ND	10	6.0
Vanadium	03/17/98	3.0	NLE	2.0
Zinc	03/17/98	48	5000	2.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3605.03	MW-01	29-26925	06/01/98
3605.04	MW-02	29-26926	06/01/98
3605.05	MW-03	29-26947	06/01/98
3605.06	MW-04	29-26948	06/01/98
3605.07	MW-05	29-31783	06/01/98

NJDEP Laboratory Certification # 13461

Report Date: 31 July, 1998

7/20/98

Daniel Wright Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Joe Fallon
Phone #: x26223
(✓)DERA ( )OMA ( )Other:_____

Project No:
Location: Bldg 2567 MW

Samplers Name / Company: Corey McCormack, TVS

Comments: 4°C/HCL/HNO3

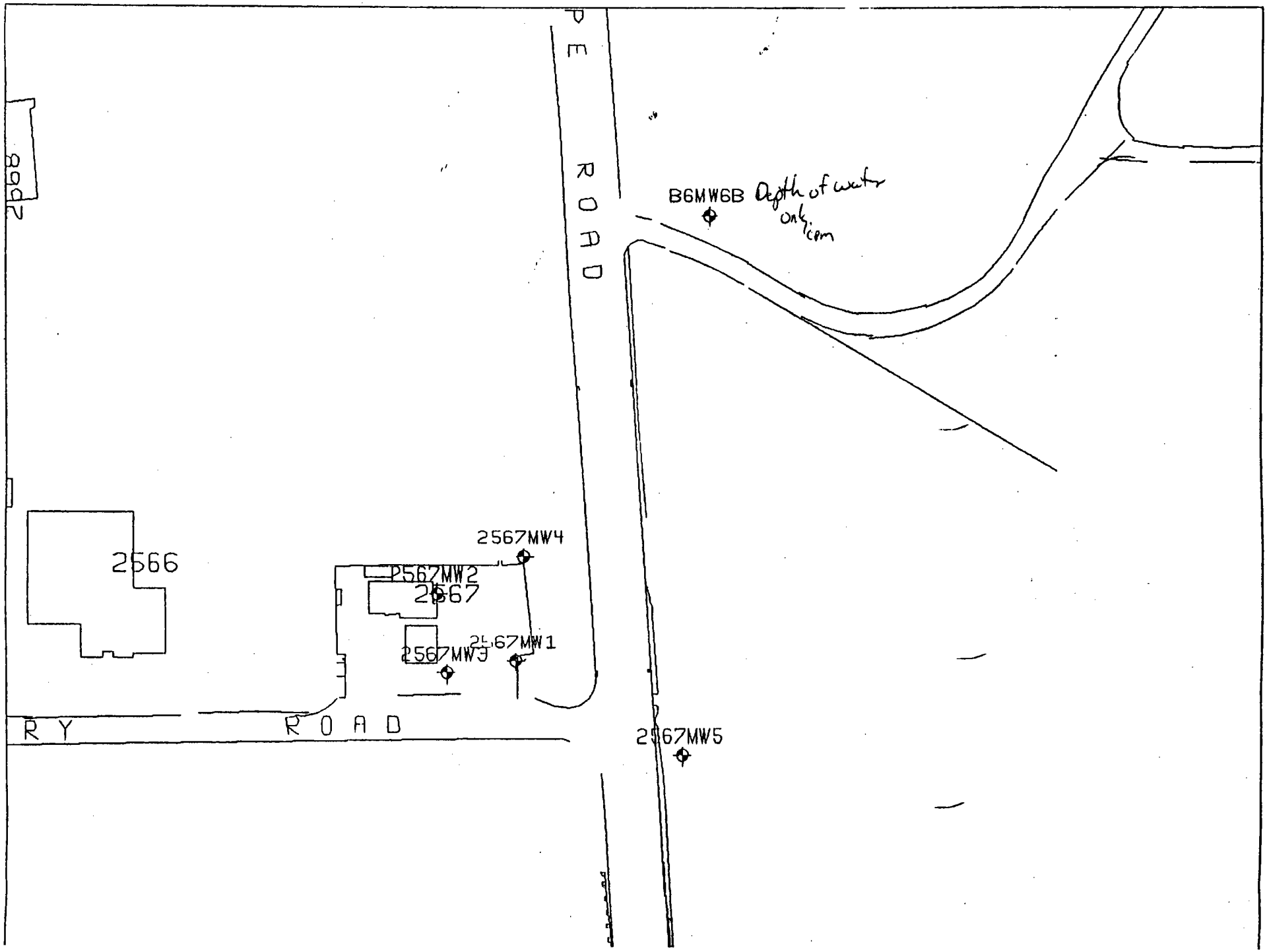
Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA + 15	Pb						Hno Reading	Remarks / Preservation Method
3605.01	Trip Blank	6/1/98	0710	Ag	2	✓								
.02	Field Blank		0925		3	✓	✓							well ID*
.03	MW-01		1021		3	✓	✓						✓	2.1 ppm 29-26925
.04	MW-02		1140		3	✓	✓						✓	2.3 ppm 29-26926
.05	MW-03		1144		3	✓	✓						✓	2.9 ppm 29-26947
.06	MW-04		1028		3	✓	✓						✓	1.0 ppm 29-26948
.07	MW-05		1240		3	✓	✓						✓	0.0 ppm 29-31783
.08	Field Dupe		—		3	✓	✓							

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	6/1/98 1355	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (_)Reduced, (✓)Standard, (_)Screen / non-certified
Turnaround time: (✓)Standard 4 wks, (_)Rush ____ Days, (_)ASAP Verbal ____Hrs.

Remarks: *Depth of well water taken at B6MW6B : 4.59 ft

BLDG. 2567


ROAD
B6MW6B
Depth of water only 1cm
2566
2567MW4
2567MW2
2567
2567MW1
2567MW3
RY
ROAD
2567MW5

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 1
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 6 / 1 / 98
WEATHER: Breezy, partly cloudy

ELEV. OF CASING SURVEY MARK: 33.93 ft
DEPTH TO WATER: 4.06 ft
DEPTH OF WELL: 13.10 ft
HEIGHT OF WATER: 9.04 ft
(9.04) X .65 X 3 = 17.62
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.15 gpm
Hnu READING: 2.1 ppm

PURGE START TIME: 0827
pH 6.56 su TEMP 17.2 °C
DISSOLVED O2 2.8 ppm SPECIFIC CONDUCTIVITY 80 us/cm

PURGE END TIME: 1021
pH 6.62 su TEMP 17.7 °C
DISSOLVED O2 2.2 ppm SPECIFIC CONDUCTIVITY 80 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.17 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER

TOTAL VOLUME PURGED: 18 gal

pH 6.49 su TEMP 17.5 °C
DISSOLVED O2 2.1 ppm SPECIFIC CONDUCTIVITY 80 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 6 / 1 / 98
WEATHER: Warm, partly cloudy, breezy

ELEV. OF CASING SURVEY MARK: 37.79 ft
DEPTH TO WATER: 3.59 ft
DEPTH OF WELL: 12.20 ft
HEIGHT OF WATER: 8.61 ft
(8.61) X .65 X 3 = 16.78
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.09 gpm
Hnu READING: 2.3 ppm

PURGE START TIME: 0846
pH 6.40 su TEMP 17.7 °C
DISSOLVED O2 2.5 ppm SPECIFIC CONDUCTIVITY 90 us/cm

PURGE END TIME: 1140
pH 6.36 su TEMP 17.7 °C
DISSOLVED O2 2.5 ppm SPECIFIC CONDUCTIVITY 80 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.91 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER

TOTAL VOLUME PURGED: 17 gal

pH 6.33 su TEMP 17.8 °C
DISSOLVED O2 2.3 ppm SPECIFIC CONDUCTIVITY 80 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 3
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 6 / 1 / 98
WEATHER: Partly cloudy, breezy, warm

ELEV. OF CASING SURVEY MARK: 37.76 ft
DEPTH TO WATER: 3.99 ft
DEPTH OF WELL: 12.50 ft
HEIGHT OF WATER: 8.51 ft
(8.51) X .65 X 3 = 16.59
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.10 gpm
Hnu READING: 2.9 ppm

PURGE START TIME: 0909
pH 7.05 su TEMP 17.4 °C
DISSOLVED O2 2.4 ppm SPECIFIC CONDUCTIVITY 80 us/cm

PURGE END TIME: 1144
pH 6.95 su TEMP 17.5 °C
DISSOLVED O2 2.5 ppm SPECIFIC CONDUCTIVITY 70 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.19 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER

TOTAL VOLUME PURGED: 17 gal

pH 6.98 su TEMP 17.3 °C
DISSOLVED O2 2.2 ppm SPECIFIC CONDUCTIVITY 80 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 4
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 6 / 1 / 98
WEATHER: Breezy, warm, partly cloudy

ELEV. OF CASING SURVEY MARK: 33.51 ft
DEPTH TO WATER: 2.33 ft
DEPTH OF WELL: 11.66 ft
HEIGHT OF WATER: 9.37 ft
(9.37) X .65 X 3 = 18.19
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.13 gpm
Hnu READING: 1.0 ppm

PURGE START TIME: 0812
pH 6.87 su TEMP 16.4 °C
DISSOLVED O2 2.3 ppm SPECIFIC CONDUCTIVITY 80 us/cm

PURGE END TIME: 1028
pH 6.86 su TEMP 16.3 °C
DISSOLVED O2 1.5 ppm SPECIFIC CONDUCTIVITY 80 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 2.71 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER

TOTAL VOLUME PURGED: 18 gal

pH 6.87 su TEMP 16.3 °C
DISSOLVED O2 1.7 ppm SPECIFIC CONDUCTIVITY 80 us/cm

COMMENTS: Dupe here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 5
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 6 / 1 / 98
WEATHER Warm, breezy, partly cloudy

ELEV. OF CASING SURVEY MARK: 34.99 ft
DEPTH TO WATER: 7.55 ft
DEPTH OF WELL: 14.75 ft
HEIGHT OF WATER: 7.20 ft
(7.20) X .65 X 3 = 14.04
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.13 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 1055
pH 6.61 su TEMP 17.5 °C
DISSOLVED O2 1.4 ppm SPECIFIC CONDUCTIVITY 90 us/cm

PURGE END TIME: 1240
pH 6.69 su TEMP 17.9 °C
DISSOLVED O2 1.5 ppm SPECIFIC CONDUCTIVITY 90 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.63 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER

TOTAL VOLUME PURGED: 14 gal

pH 6.65 su TEMP 17.7 °C
DISSOLVED O2 1.1 ppm SPECIFIC CONDUCTIVITY 90 us/cm

COMMENTS:

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb00495.d	Sample Name	VBLK12
Operator	Skelton	Field ID	VBLK12
Date Acquired	6 Jun 1998 10:03 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam **vb00502.d**
Operator **Skelton**
Date Acquired **6 Jun 1998 3:21 pm**

Sample Name **3605.01**
Field ID **Trip Blank**
Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride	12.80	225547	10.19 ug/L	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb00503.d	Sample Name	3605.02
Operator	Skelton	Field ID	Field Blank
Date Acquired	6 Jun 1998 4:07 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride	12.81	235361	10.61 ug/L	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam **vb00504.d**
Operator **Skelton**
Date Acquired **6 Jun 1998 4:52 pm**

Sample Name **3605.03**
Field ID **MW01**
Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol	11.32	517996	95.63 ug/L	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether	13.39	1566430	24.23 ug/L	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb00505.d	Sample Name	3605.04
Operator	Skelton	Field ID	MW02
Date Acquired	6 Jun 1998 5:37 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb00506.d	Sample Name	3605.05
Operator	Skelton	Field ID	MW03
Date Acquired	6 Jun 1998 6:23 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol	11.35	148779	27.52 ug/L	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether	13.39	5279431	81.82 ug/L	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene	20.02	383098	4.68 ug/L	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb00507.d	Sample Name	3605.06
Operator	Skelton	Field ID	MW04
Date Acquired	6 Jun 1998 7:08 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb00508.d	Sample Name	3605.07
Operator	Skelton	Field ID	MW05
Date Acquired	6 Jun 1998 7:53 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	**vb00509.d**	Sample Name	**3605.08**
Operator	**Skelton**	Field ID	**Field Dup**
Date Acquired	**6 Jun 1998 8:39 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

VBLK12

Lab Name: FMETL Project

NJDEP# 13461 Case No.: 3605 SDG No Location B2567

Matrix: (soil/water) WATER Lab Sample ID: VBLK12

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB00495.D

Level: (low/med) LOW Date Received: 06/01/98

% Moisture: not dec. Date Analyzed: 06/06/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Trip Blank

Lab Name: FMETL Project

NJDEP# 13461 Case No.: 3605 SDG No Location B2567

Matrix: (soil/water) WATER Lab Sample ID: 3605.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB00502.D

Level: (low/med) LOW Date Received: 06/01/98

% Moisture: not dec. Date Analyzed: 06/06/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Project

NJDEP# 13461 Case No.: 3605 SDG No Location B2567

Matrix: (soil/water) WATER Lab Sample ID: 3605.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB00503.D

Level: (low/med) LOW Date Received: 06/01/98

% Moisture: not dec. Date Analyzed: 06/06/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW01

Lab Name: FMETL Project

NJDEP# 13461 Case No.: 3605 SDG No Location B2567

Matrix: (soil/water) WATER Lab Sample ID: 3605.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB00504.D

Level: (low/med) LOW Date Received: 06/01/98

% Moisture: not dec. Date Analyzed: 06/06/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW02

Lab Name: FMETL Project

NJDEP# 13461 Case No.: 3605 SDG No Location B2567

Matrix: (soil/water) WATER Lab Sample ID: 3605.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB00505.D

Level: (low/med) LOW Date Received: 06/01/98

% Moisture: not dec. Date Analyzed: 06/06/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW03

Lab Name: FMETL Project

NJDEP# 13461 Case No.: 3605 SDG No Location B2567

Matrix: (soil/water) WATER Lab Sample ID: 3605.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB00506.D

Level: (low/med) LOW Date Received: 06/01/98

% Moisture: not dec. Date Analyzed: 06/06/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 3

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	13.14	19	J
2. 000096-37-7	Cyclopentane, methyl-	16.67	29	JN
3. 000098-82-8	Benzene, (1-methylethyl)-	30.97	9	JN

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW04

Lab Name: FMETL Project

NJDEP# 13461 Case No.: 3605 SDG No Location B2567

Matrix: (soil/water) WATER Lab Sample ID: 3605.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB00507.D

Level: (low/med) LOW Date Received: 06/01/98

% Moisture: not dec. Date Analyzed: 06/06/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW05

Lab Name: FMETL Project

NJDEP# 13461 Case No.: 3605 SDG No Location B2567

Matrix: (soil/water) WATER Lab Sample ID: 3605.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB00508.D

Level: (low/med) LOW Date Received: 06/01/98

% Moisture: not dec. Date Analyzed: 06/06/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Project

NJDEP# 13461 Case No.: 3605 SDG No Location B2567

Matrix: (soil/water) WATER Lab Sample ID: 3605.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB00509.D

Level: (low/med) LOW Date Received: 06/01/98

% Moisture: not dec. Date Analyzed: 06/06/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 06/02/98
Analysis Completed: 06/02/98

Site: Ft. Monmouth
Building 2567

Matrix: Aqueous

Method of Analysis: Std. Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: LEAD

Laboratory ID#	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.5

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3605.02-.08
Sample Received: 06/01/98
Analysis Start: 06/02/98
Analysis Completed: 06/02/98

Site: Ft. Monmouth
Building 2567

Matrix: Aqueous

Method of Analysis: Std. Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: LEAD

Laboratory ID#	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
3605.02	Field Blank	ND	10	0.5
3605.03	MW-01	0.5	10	0.5
3605.04	MW-02	1.4	10	0.5
3605.05	MW-03	ND	10	0.5
3605.06	MW-04	ND	10	0.5
3605.07	MW-05	ND	10	0.5
3605.08	Field Dup	ND	10	0.5

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

	Lab	Methylene chloride	1,2-Dichloro ethane	Benzene	Xylene	Tert-butyl alcohol	Methyl tertiary butyl ether	Bromodi chloro methane	1,2-Dichloro propane	cis-1,3-Di chloro propene	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	2	2	1	1000	NA	NA	NA	1	NA	-
12/10/91	ENV PRO	240	55	2400	42	4400	2200	ND	ND	ND	-
10/26/92	ENV PRO	420	ND	2800	302	5400	1200	77	62	48	-
10/26/92D	ENV PRO	130	ND	3200	57	7000	1500	ND	ND	ND	-
04/21/93	21st CEN	16	ND	520	ND	470	890	ND	ND	ND	-
04/28/93	21st CEN	-	-	-	-	-	-	-	-	-	BNA Only
02/03/94	21st CEN	26	ND	21	41	28	650	ND	ND	ND	-
03/31/94	21st CEN	ND	ND	ND	ND	22	10	ND	ND	ND	-
06/14/94	21st CEN	ND	ND	ND	ND	120	88	ND	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	ND	600	56	ND	ND	ND	-
05/25/95	EMSL	1.5	ND	ND	ND	930	110	ND	ND	ND	-
08/15/95	EMSL	1.3	ND	ND	ND	930	29	ND	ND	ND	-
11/21/95	EMSL	36	ND	ND	ND	860	80	ND	ND	ND	-
02/20/96	EMSL	2.1	ND	ND	ND	780	100	ND	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	ND	39.4	72.7	ND	240	ND	ND	ND	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	357	20.3	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	560	37	ND	ND	ND	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	95.63	24.23	ND	ND	ND	V.Pb

SOURCE: MW1

Sampling Dates:
12/10/91 - 06/01/98

NOTES:

Page 1 of 5.

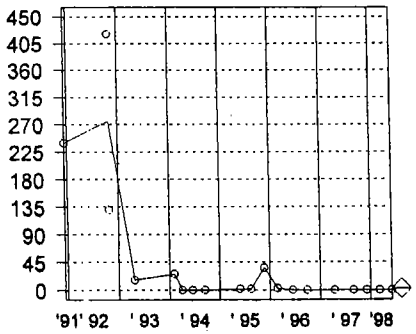
FORT MONMOUTH

GW MONITORING
Bldg. 2567

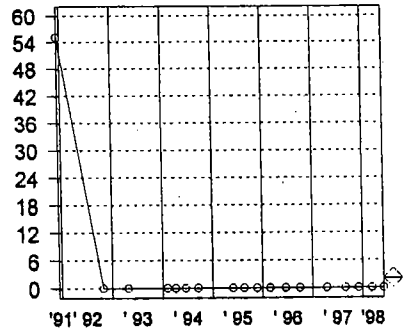
Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

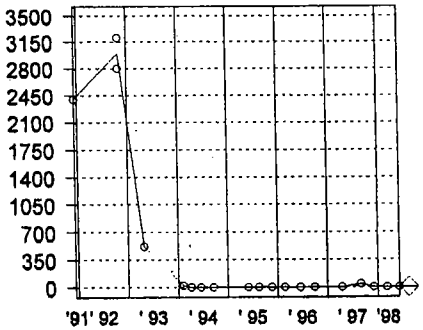
Methylene chloride
(ug/L)



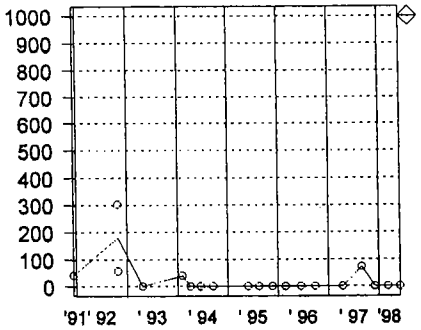
1,2-Dichloroethane
(ug/L)



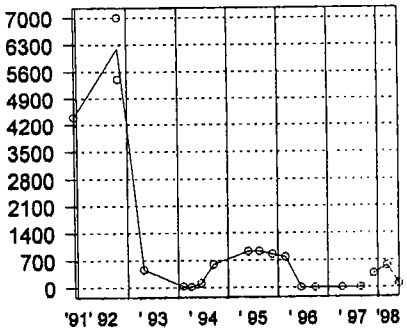
Benzene
(ug/L)



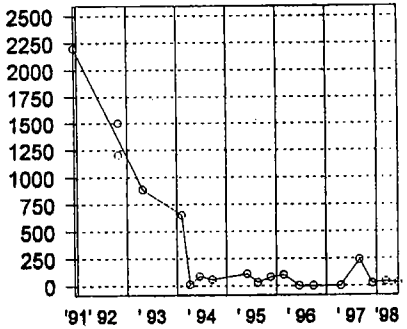
Xylene
(ug/L)



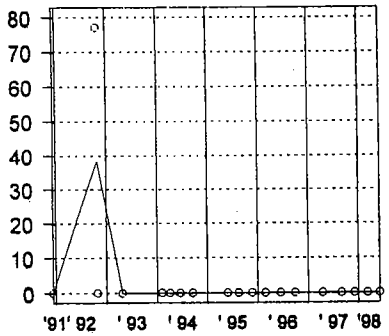
Tert-butyl alcohol
(ug/L)



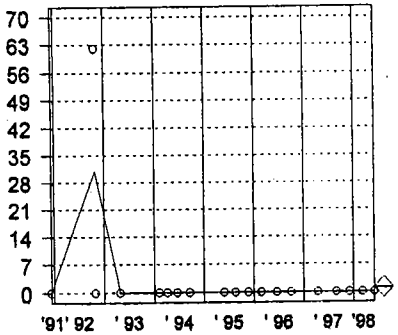
Methyl tertiary butyl ether
(ug/L)



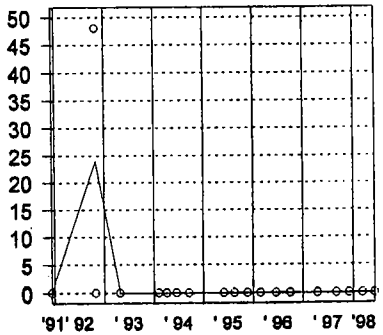
Bromodichloromethane
(ug/L)



1,2-Dichloropropane
(ug/L)



cis-1,3-Dichloropropene
(ug/L)



SOURCE: MW1

Sampling Dates:
12/10/91 - 06/01/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Trichloro ethene	Dibromo chloro methane	1,1,2-Tri chloro ethane	trans-1,3-Dichloro propene	Bromoform	Tetra chloro ethene	1,1,2,2-Tetra chloro ethane	Toluene	Chloro benzene	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	1	10	3	NA	4	1	2	1000	4	-
12/10/91	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/92	ENV PRO	32	130	140	220	140	51	170	73	99	-
10/26/92D	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/21/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/28/93	21st CEN	-	-	-	-	-	-	-	-	-	BNA Only
02/03/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	66	ND	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
05/25/95	EMSL	ND	ND	ND	ND	ND	ND	ND	0.7	ND	-
08/15/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
11/21/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
02/20/96	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	ND	1.3	ND	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V.Pb

SOURCE: MW1

Sampling Dates:
12/10/91 - 06/01/98

NOTES:

Page 2 of 5.

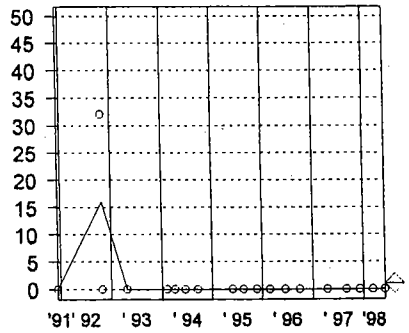
FORT MONMOUTH

GW MONITORING
Bldg. 2567

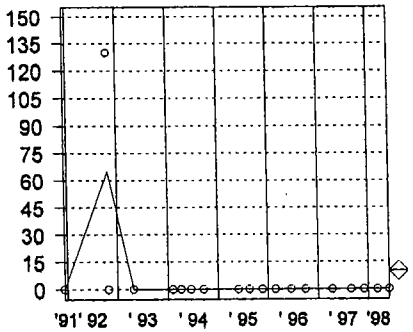
Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

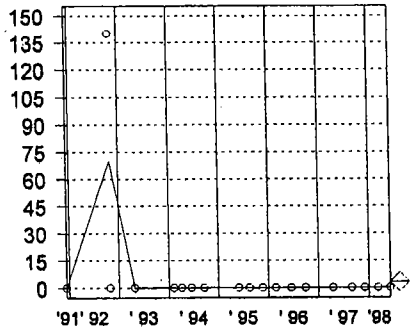
Trichloroethene
(ug/L)



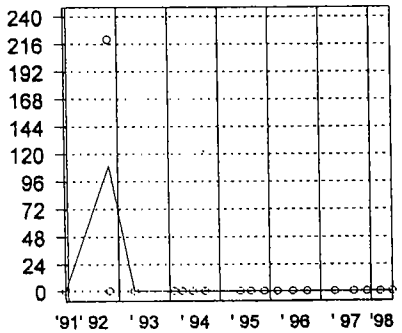
Dibromochloromethane
(ug/L)



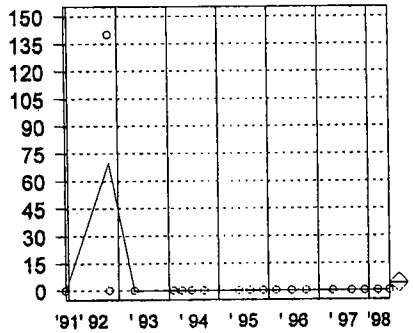
1,1,2-Trichloroethane
(ug/L)



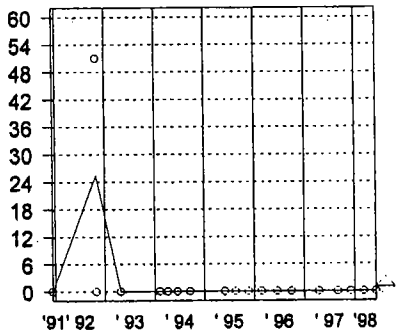
trans-1,3-Dichloropropene
(ug/L)



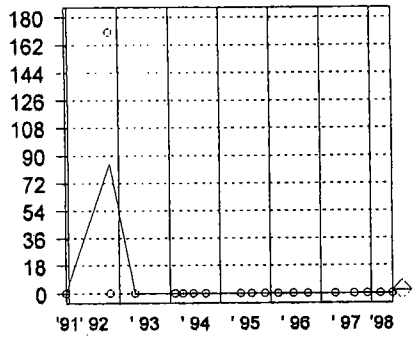
Bromoform
(ug/L)



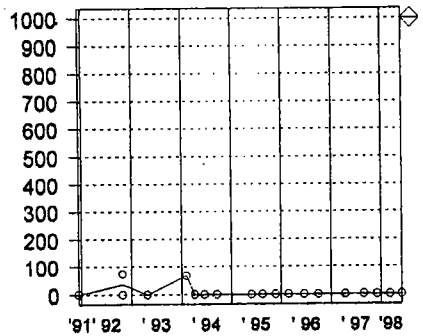
Tetrachloroethene
(ug/L)



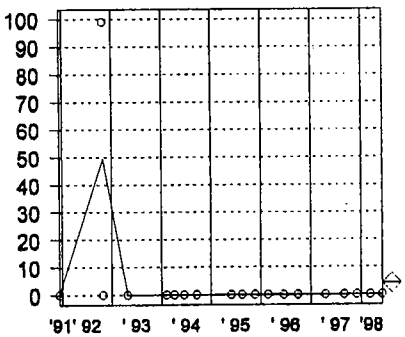
1,1,2,2-Tetrachloroethane
(ug/L)



Toluene
(ug/L)



Chlorobenzene
(ug/L)



SOURCE: MW1

Sampling Dates:
12/10/91 - 06/01/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Ethyl benzene	Styrene	1,3-Di-chloro benzene	1,2-Di-chloro benzene	1,4-Di-chloro benzene	Acetone	2-Propane 2-methyl (TIC)	Propane 2-methoxy (TIC)	1-Butanol (TIC)	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	700	100	600	600	75	700	-	-	-	-
12/10/91	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/92	ENV PRO	90	84	100	120	120	ND	ND	ND	ND	-
10/26/92D	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/21/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/28/93	21st CEN	-	-	-	-	-	-	ND	ND	ND	BNA Only
02/03/94	21st CEN	16	ND	ND	ND	ND	54	ND	ND	ND	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	6.9	ND	ND	ND	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
05/25/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
08/15/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
11/21/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
02/20/96	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	18	66	4	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V.Pb

SOURCE: MW1

Sampling Dates:
12/10/91 - 06/01/98

NOTES:

Page 3 of 5.

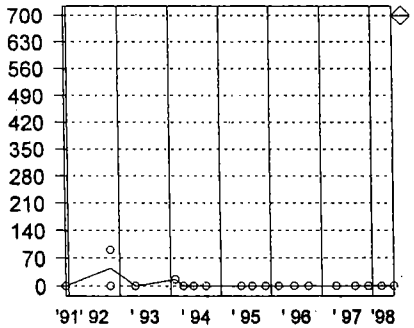
FORT MONMOUTH

GW MONITORING
Bldg. 2567

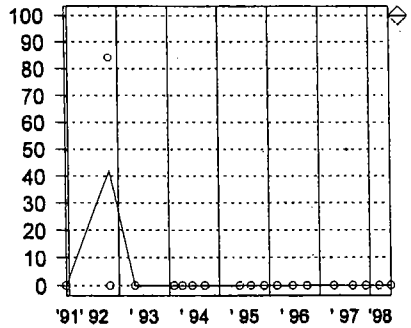
Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

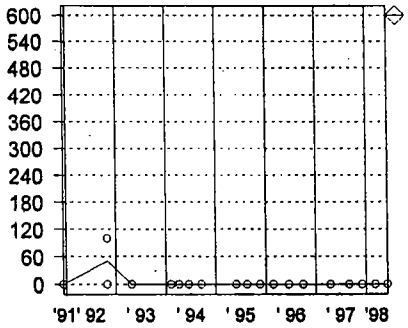
Ethylbenzene
(ug/L)



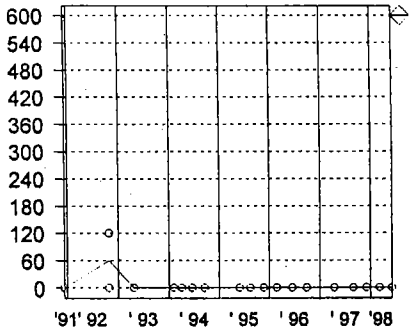
Styrene
(ug/L)



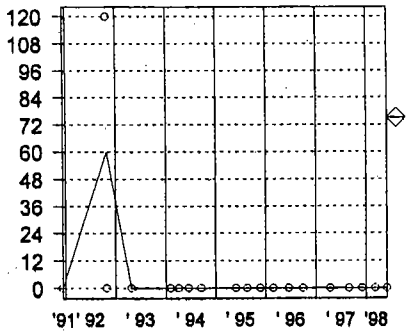
1,3-Dichlorobenzene
(ug/L)



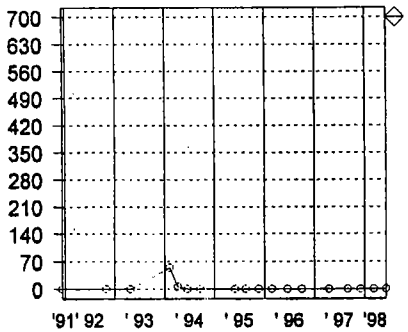
1,2-Dichlorobenzene
(ug/L)



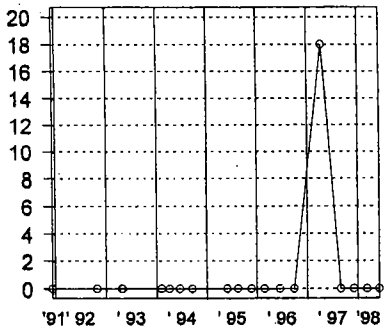
1,4 Dichlorobenzene
(ug/L)



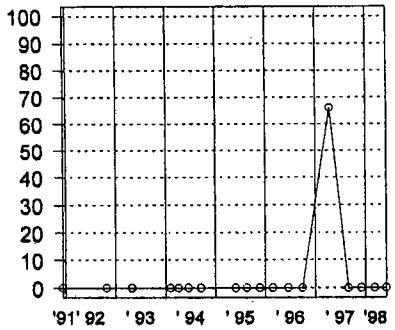
Acetone
(ug/L)



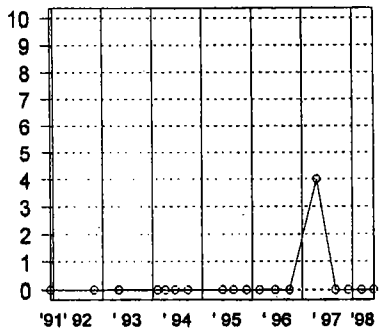
2-Propane, 2-methyl
(ug/L)



Propane, 2-methoxy-2-methyl
(ug/L)



1-Butanol
(ug/L)



SOURCE: MW1

Sampling Dates:
12/10/91 - 06/01/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	bis(2-chloro isopropyl ether	n-Nitrosodi phenyl amine	Di-n-butyl phthalate	Di-n-octyl phthalate	bis(2-Ethyl hexyl) phthalate	Lead	Iron	Manganese	Sodium	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/L	ug/L	ug/l	ug/l	ug/l	-
NJDEP Criteria:	-	300	20	900	100	30	10	300	50	50000	-
12/10/91	ENV PRO	ND	ND	ND	ND	ND	4	-	-	-	-
10/26/92	ENV PRO	ND	ND	ND	ND	ND	ND	-	-	-	-
10/26/92D	ENV PRO	ND	ND	ND	ND	ND	ND	-	-	-	-
04/21/93	21st CEN	ND	ND	ND	ND	ND	70	-	-	-	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	BNA Only
02/03/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
05/25/95	EMSL	ND	ND	ND	ND	ND	ND	-	-	-	-
08/15/95	EMSL	ND	ND	ND	ND	ND	3.3	-	-	-	-
11/21/95	EMSL	ND	ND	ND	ND	ND	ND	-	-	-	-
02/20/96	EMSL	ND	ND	ND	ND	ND	4	-	-	-	-
06/13/96	FMETL	ND	ND	ND	ND	ND	1.2	-	-	-	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	-
04/11/97	FMETL	ND	ND	ND	ND	ND	2.5	-	-	-	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	1.4	-	-	-	V,Pb
12/02/97	FMETL	0.95	0.69	3.82	0.93	1.25	7.0	4110	93	76000	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	5800	108	48900	V,S,P,M
06/01/98	FMETL	-	-	-	-	ND	0.5	-	-	-	V.Pb

SOURCE: MW1

Sampling Dates:
12/10/91 - 06/01/98

NOTES:

Page 4 of 5.

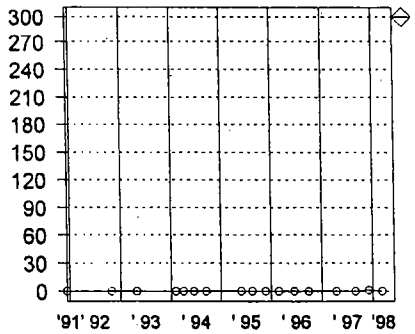
FORT MONMOUTH

GW MONITORING
Bldg. 2567

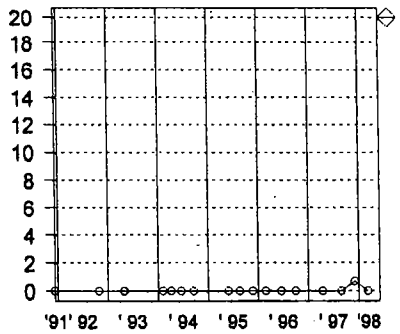
Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

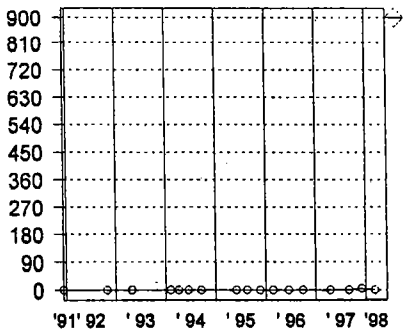
bis(2-chloroisopropyl)ether
(ug/l)



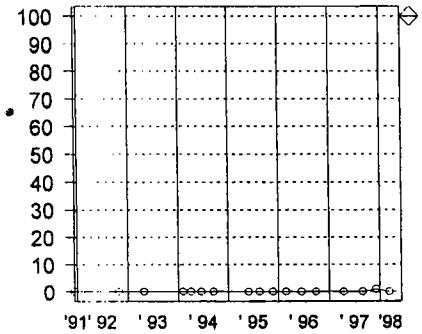
n-Nitrosodiphenylamine
(ug/l)



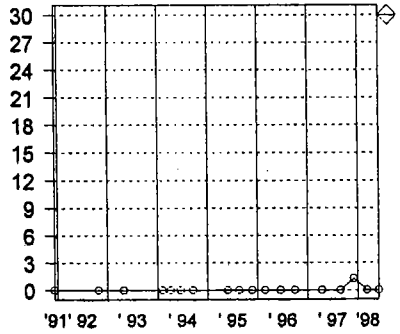
Di-n-butylphthalate
(ug/l)



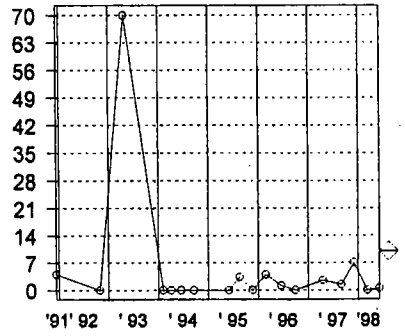
Di-n-octylphthalate
(ug/l)



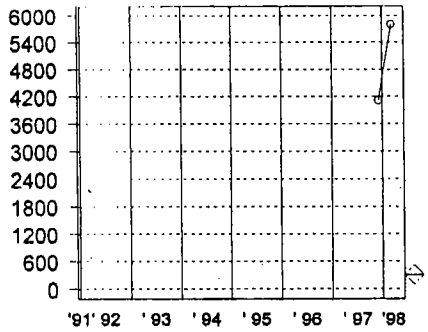
bis(2-Ethylhexyl)phthalate
(ug/L)



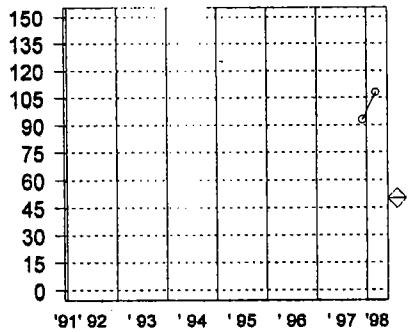
Lead
(ug/L)



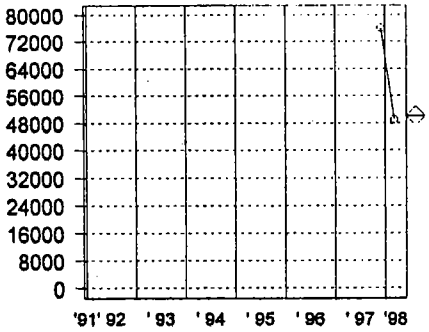
Iron
(ug/l)



Manganese
(ug/l)



Sodium
(ug/l)



SOURCE: MW1

Sampling Dates:
12/10/91 - 06/01/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Depth to Water									Notes
Units:	-	Feet									-
NJDEP Criteria:	-	-									-
12/10/91	ENV PRO	-									-
10/26/92	ENV PRO	-									-
10/26/92D	ENV PRO	-									-
04/21/93	21st CEN	-									-
04/28/93	21st CEN	-									BNA Only
02/03/94	21st CEN	-									-
03/31/94	21st CEN	-									-
06/14/94	21st CEN	-									-
09/15/94	21st CEN	-									-
05/25/95	EMSL	-									-
08/15/95	EMSL	-									-
11/21/95	EMSL	-									-
02/20/96	EMSL	-									-
06/13/96	FMETL	-									-
09/27/96	FMETL	-									-
04/11/97	FMETL	3.80									V,Pb
08/28/97	FMETL	4.80									V,Pb
12/02/97	FMETL	3.90									V,S,P,M
03/04/98	FMETL	3.51									V,S,P,M
06/01/98	FMETL	4.06									V.Pb

SOURCE: MW1

Sampling Dates:
12/10/91 - 06/01/98

NOTES:

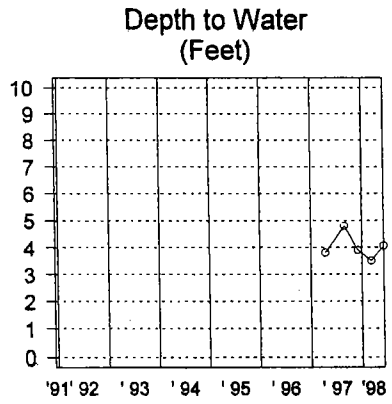
Page 5 of 5.

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: MW1

Sampling Dates:
12/10/91 - 06/01/98

LEGEND:

PARAMETER

○ = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Methylene chloride	Benzene	Xylene	Methyl tertiary butyl ether	Toluene	Ethyl benzene	Acetone	Butyl benzyl phthalate	Carbon Disulfide	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	2	1	1000	NA	1000	700	700	100	NA	-
12/10/91	ENV PRO	7	3	ND	ND	ND	ND	ND	ND	ND	-
10/26/92	ENV PRO	23	ND	3	ND	ND	ND	ND	ND	ND	-
04/21/93	ENV PRO	ND	ND	2.0	ND	ND	ND	2.5	ND	ND	-
04/28/93	21st CEN	-	-	-	-	-	-	-	18	-	BNA Only
02/03/94	21st CEN	4.0	19	43	7.0	55	7.4	ND	ND	3.1	-
03/31/94	21st CEN	17	ND	2.5	11	ND	ND	140	ND	ND	-
06/14/94	21st CEN	ND	ND	3.0	11	ND	1.1	ND	ND	ND	-
09/15/94	21st CEN	ND	ND	5.5	4.1	1.8	1.2	ND	ND	ND	-
05/25/95	EMSL	0.9	ND	6.5	3.1	ND	0.8	ND	ND	ND	-
08/15/95	EMSL	1.3	ND	5.3	2.5	ND	ND	ND	ND	ND	-
11/21/95	EMSL	0.6	ND	3.6	1.6	ND	ND	ND	ND	ND	-
02/20/96	EMSL	2.0	ND	4.2	2	ND	ND	ND	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: MW2

Sampling Dates:
12/10/91 - 06/01/98

NOTES:

Page 1 of 3.

FORT MONMOUTH

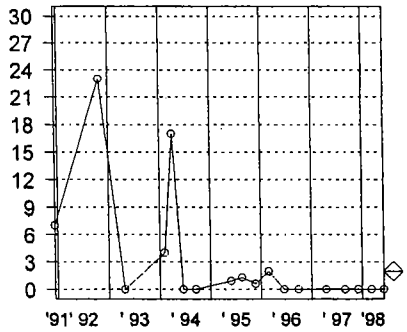
GW MONITORING
Bldg. 2567

Well 2 of 5

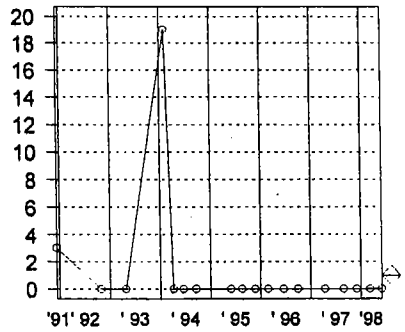
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

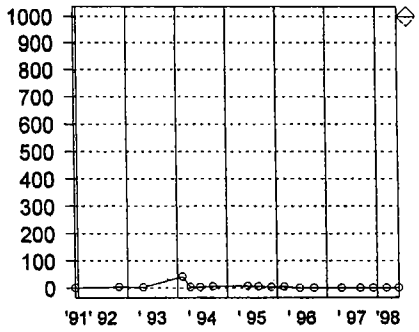
Methylene chloride
(ug/L)



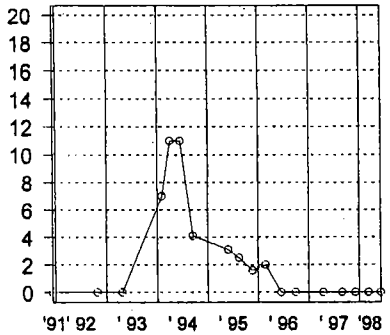
Benzene
(ug/L)



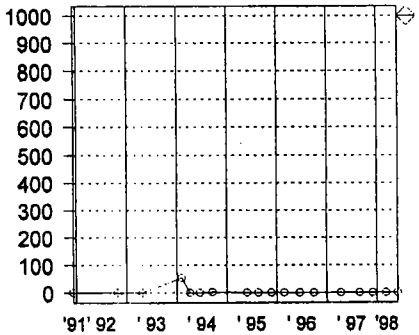
Xylene
(ug/L)



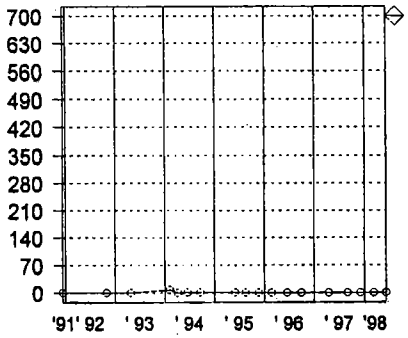
Methyl tertiary butyl ether
(ug/L)



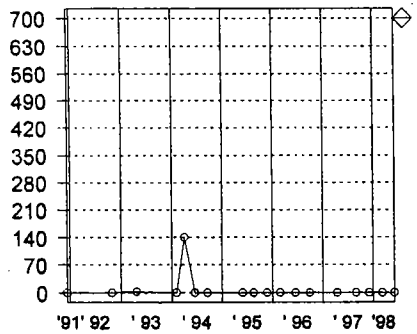
Toluene
(ug/L)



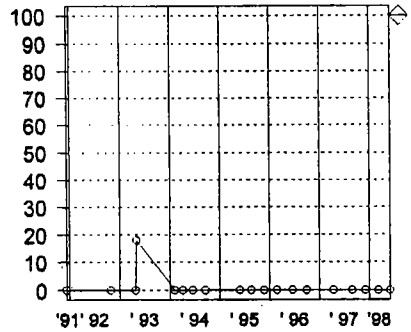
Ethylbenzene
(ug/L)



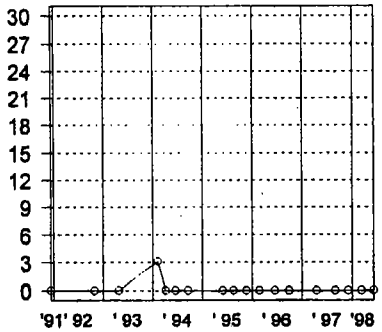
Acetone
(ug/L)



Butylbenzylphthalate
(ug/L)



Carbon disulfide
(ug/L)



SOURCE: MW2

Sampling Dates:
12/10/91 - 06/01/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 2 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Isopropyl benzene	n-Propyl benzene	1,3,5-Tri methyl benzene	1,2,4-Tri methyl benzene	Di-n-butyl phthalate	Naphthalene	bis(2-Ethyl hexyl) phthalate	Lead	Iron	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/L	ug/L	ug/L	ug/l	-
NJDEP Criteria:	-	NA	NA	NA	NA	900	300	30	10	300	-
12/10/91	ENV PRO	ND	ND	ND	ND	-	ND	ND	ND	-	-
10/26/92	ENV PRO	ND	ND	ND	ND	-	ND	ND	11	-	-
04/21/93	ENV PRO	ND	ND	ND	ND	-	ND	ND	ND	-	-
04/28/93	21st CEN	-	-	-	-	-	ND	ND	ND	-	BNA Only
02/03/94	21st CEN	ND	ND	ND	ND	-	ND	ND	260	-	-
03/31/94	21st CEN	ND	ND	ND	ND	-	ND	ND	ND	-	-
06/14/94	21st CEN	ND	ND	ND	ND	-	ND	ND	ND	-	-
09/15/94	21st CEN	ND	ND	ND	ND	-	ND	ND	ND	-	-
05/25/95	EMSL	1.1	1.3	1.0	8.8	-	11	ND	ND	-	-
08/15/95	EMSL	1.1	1.3	1.0	8.2	-	11	ND	5.6	-	-
11/21/95	EMSL	1.0	1.1	0.6	4.6	-	7.3	ND	ND	-	-
02/20/96	EMSL	1	1.1	0.8	6.2	-	7.2	ND	ND	-	-
06/13/96	FMETL	ND	ND	ND	ND	-	ND	ND	ND	-	-
09/27/96	FMETL	ND	ND	ND	ND	-	ND	ND	1.2	-	-
04/11/97	FMETL	ND	ND	ND	ND	-	ND	ND	10.7	-	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	-	ND	ND	ND	-	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	1.08	4.79	ND	20	16300	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	1.67	1.29	8.0	12400	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	-	ND	ND	1.4	-	V,Pb

SOURCE: MW2

Sampling Dates:
12/10/91 - 06/01/98

NOTES:

Page 2 of 3.

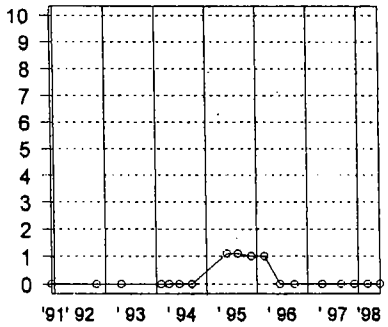
FORT MONMOUTH

GW MONITORING
Bldg. 2567

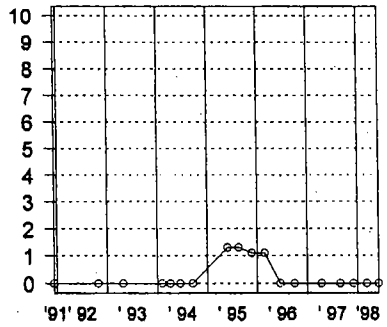
Well 2 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

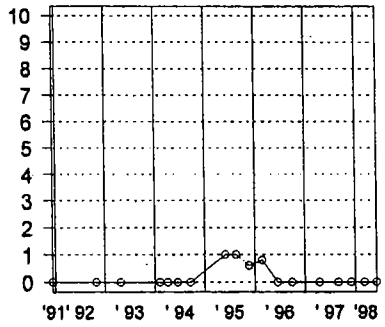
Isopropylbenzene
(ug/l)



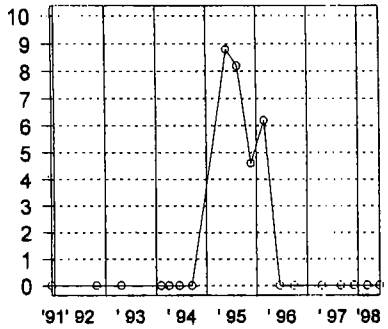
n-Propylbenzene
(ug/l)



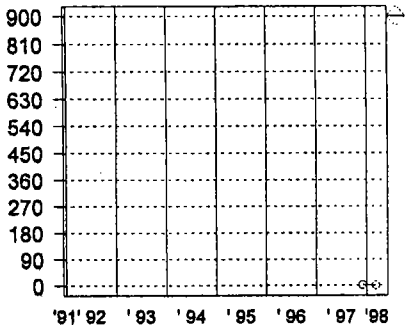
1,3,5-Trimethylbenzene
(ug/l)



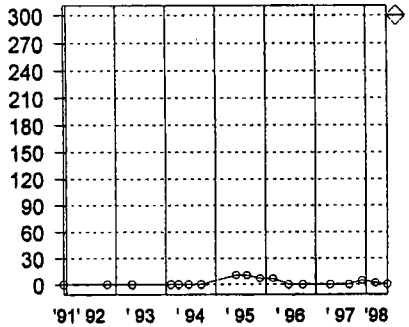
1,2,4-Trimethylbenzene
(ug/l)



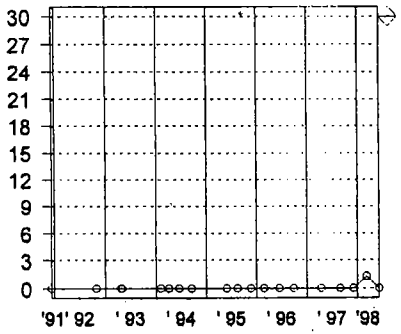
Di-n-butylphthalate
(ug/l)



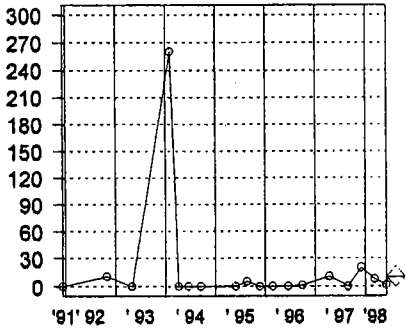
Naphthalene
(ug/L)



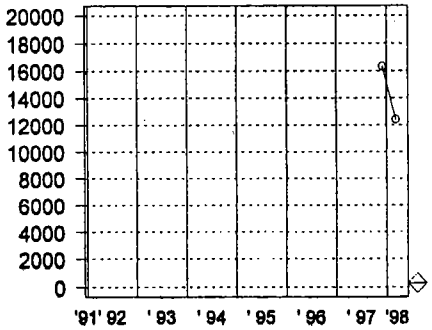
bis(2-Ethylhexyl)phthalate
(ug/L)



Lead
(ug/L)



Iron
(ug/l)



SOURCE: MW2

Sampling Dates:
12/10/91 - 06/01/98

LEGEND:

PARAMETER

○ = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 2 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Manganese	Sodium	Depth to Water							Notes
Units:	-	ug/l	ug/l	Feet							-
NJDEP Criteria:	-	50	50000	-							-
12/10/91	ENV PRO	-	-	-							-
10/26/92	ENV PRO	-	-	-							-
04/21/93	ENV PRO	-	-	-							-
04/28/93	21st CEN	-	-	-							BNA Only
02/03/94	21st CEN	-	-	-							-
03/31/94	21st CEN	-	-	-							-
06/14/94	21st CEN	-	-	-							-
09/15/94	21st CEN	-	-	-							-
05/25/95	EMSL	-	-	-							-
08/15/95	EMSL	-	-	-							-
11/21/95	EMSL	-	-	-							-
02/20/96	EMSL	-	-	-							-
06/13/96	FMETL	-	-	-							-
09/27/96	FMETL	-	-	-							-
04/11/97	FMETL	-	-	3.40							V,Pb
08/28/97	FMETL	-	-	4.30							V,Pb
12/02/97	FMETL	272	58700	3.45							V,S,P,M
03/04/98	FMETL	100	26600	2.92							V,S,P,M
06/01/98	FMETL	-	-	3.59							V,Pb

SOURCE: MW2

Sampling Dates:
12/10/91 - 06/01/98

NOTES:

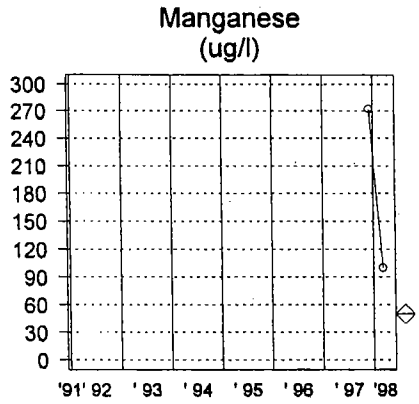
Page 3 of 3.

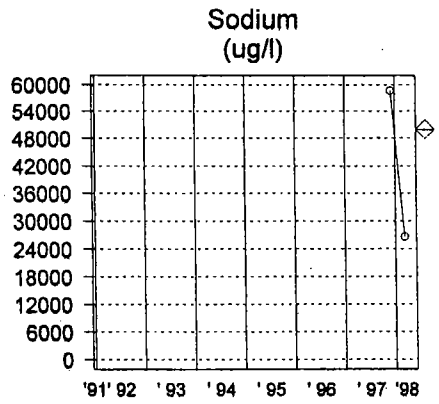
FORT MONMOUTH

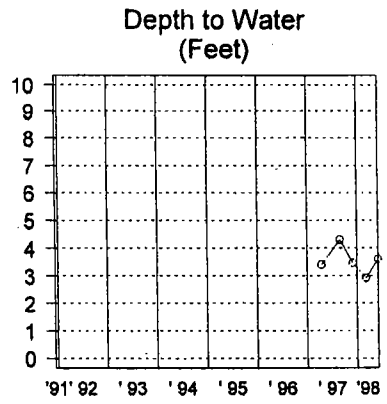
GW MONITORING
Bldg. 2567

Well 2 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: MW2

Sampling Dates:
12/10/91 - 06/01/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 2 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Methylene chloride	Benzene	Xylene	Tert-butyl alcohol	Methyl tertiary butyl ether	Toluene	Ethyl benzene	Acetone	Butyl benzyl phthalate	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	2	1	1000	NA	NA	1000	700	700	100	-
12/10/91	ENV PRO	240	110	200	ND	69	ND	ND	ND	ND	-
10/26/92	ENV PRO	24	ND	3	ND	ND	ND	ND	1	ND	-
04/21/93	ENV PRO	ND	180	74.2	ND	27	15	ND	7.7	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	12	BNA Only
02/03/94	21st CEN	4.4	19	65	ND	9.1	43	7.0	ND	ND	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/94	21st CEN	ND	15	3.4	ND	100	ND	5.4	ND	ND	-
09/15/94	21st CEN	ND	ND	1.4	ND	61	ND	ND	ND	ND	-
05/25/95	EMSL	21	94	190	ND	400	3.8	6.3	ND	ND	-
08/15/95	EMSL	25	89	360	ND	670	ND	8.4	ND	ND	-
11/21/95	EMSL	18	35	91	46	360	ND	ND	ND	ND	-
02/20/96	EMSL	ND	40	70	43	250	1	4.5	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	25	ND	ND	940	62	ND	ND	ND	ND	V,Pb
12/02/97	FMETL	ND	4.31	ND	ND	188	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	19	8.6	ND	102	ND	ND	ND	ND	V,S,P,M
06/19/98	FMETL	ND	4.68	ND	27.52	81.82	ND	ND	ND	ND	V,Pb

SOURCE: MW3

Sampling Dates:
12/10/91 - 06/19/98

NOTES:

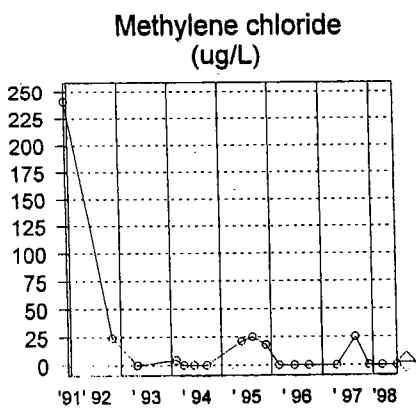
Page 1 of 3

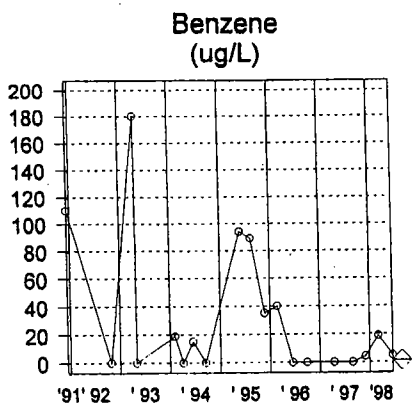
FORT MONMOUTH

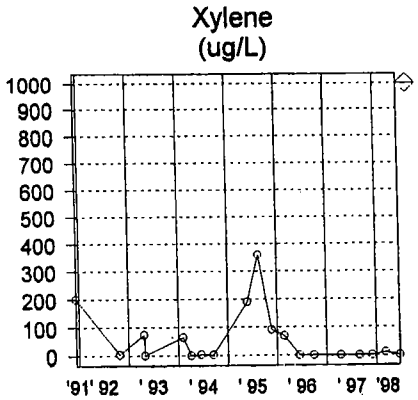
GW MONITORING
Bldg. 2567

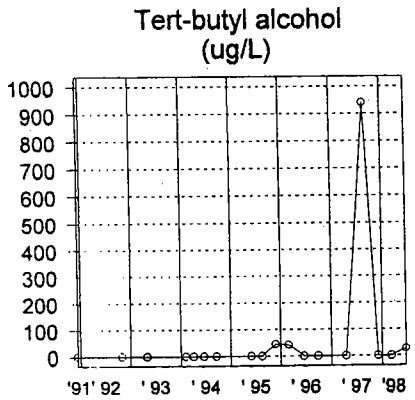
Well 3 of 5

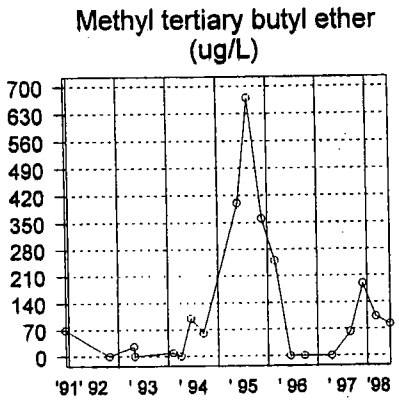
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

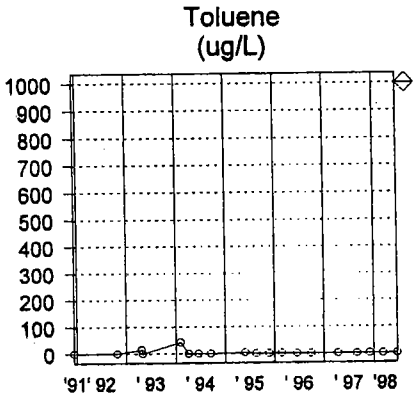


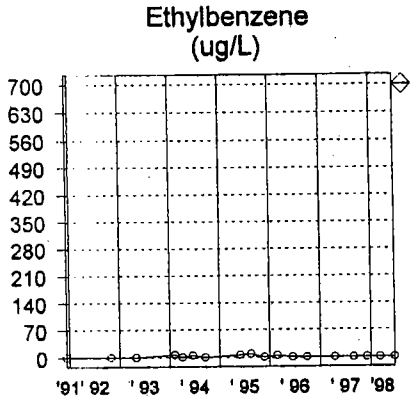


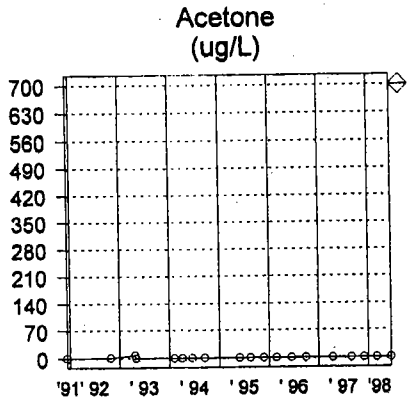


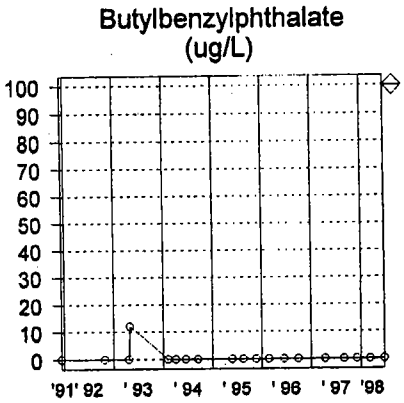












SOURCE: MW3

Sampling Dates:
12/10/91 - 06/19/98

LEGEND:

PARAMETER

○ = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 3 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Isopropyl benzene	n-Propyl benzene	1,3,5-Tri methyl benzene	1,2,4-Tri methyl benzene	Silane trimethyl (TIC)-9-y	Silan 9H-floren ltrimethyl (TIC)	2-Nonen -1-ol (TIC)	Benzene 2-propenyl (TIC)	Di-n-butyl phthalate	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/L	ug/L	ug/L	ug/L	ug/l	-
NJDEP Criteria:	-	NA	NA	NA	NA	-	-	-	-	900	-
12/10/91	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	-	-
10/26/92	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	-	-
04/21/93	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	-	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	BNA Only
02/03/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	-
05/25/95	EMSL	17	13	12	8.6	ND	ND	ND	ND	-	-
08/15/95	EMSL	30	25	38	33	ND	ND	ND	ND	-	-
11/21/95	EMSL	14	ND	7.7	ND	ND	ND	ND	ND	-	-
02/20/96	EMSL	13	8.3	4.7	1.4	ND	ND	ND	ND	-	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
04/11/97	FMETL	ND	ND	ND	ND	9	24	10	3	-	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	3.89	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/19/98	FMETL	ND	ND	ND	ND	-	-	-	-	-	V,Pb

SOURCE: MW3

Sampling Dates:
12/10/91 - 06/19/98

NOTES:

Page 2 of 3

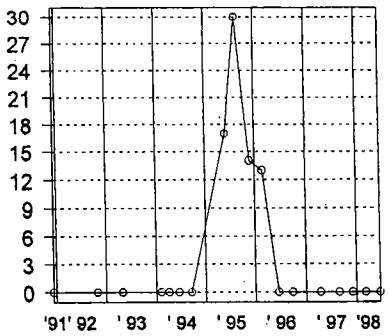
FORT MONMOUTH

GW MONITORING
Bldg. 2567

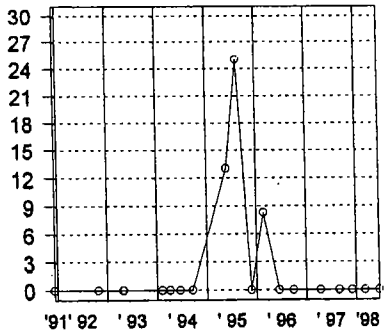
Well 3 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

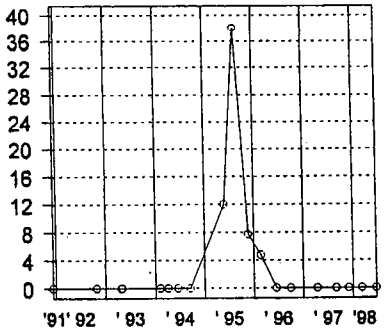
Isopropylbenzene
(ug/l)



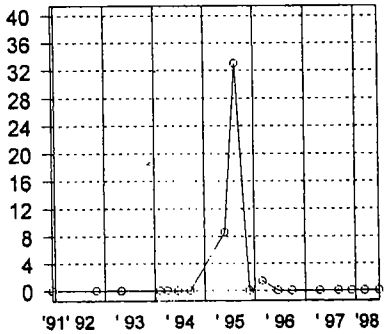
n-Propylbenzene
(ug/l)



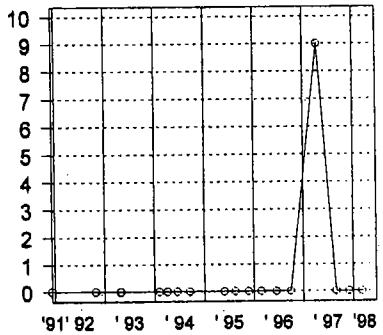
1,3,5-Trimethylbenzene
(ug/l)



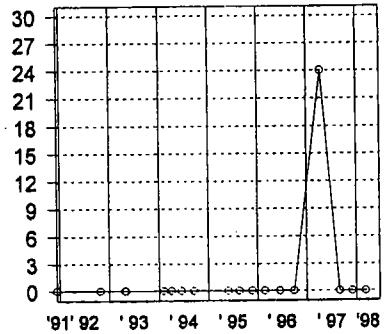
1,2,4-Trimethylbenzene
(ug/l)



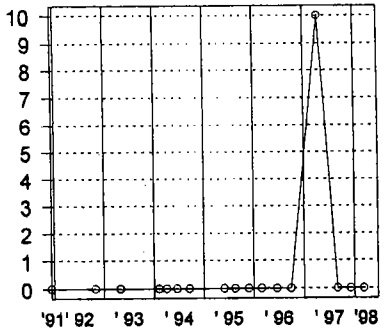
Silane,trimethyl-
(ug/L)



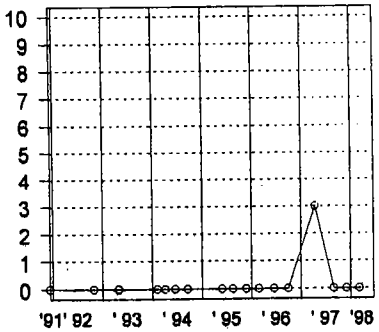
Silan,9H-floren-9y
(ug/L)



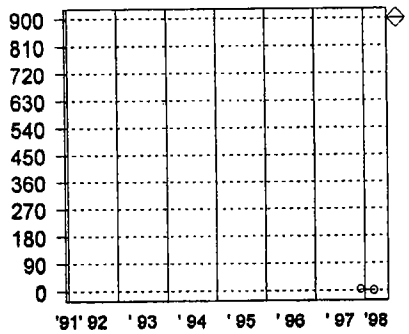
2-Nonen-1-ol
(ug/L)



Benzene 2-propenyl
(ug/L)



Di-n-butylphthalate
(ug/l)



SOURCE: MW3

Sampling Dates:
12/10/91 - 06/19/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 3 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Pyridine	Naphthalene	bis(2-Ethyl hexyl) phthalate	Lead	Iron	Manganese	Sodium	Depth to Water		Notes
Units:	-	ug/l	ug/L	ug/L	ug/L	ug/l	ug/l	ug/l	Feet		-
NJDEP Criteria:	-	NLE	300	30	10	300	50	50000	-		-
12/10/91	ENV PRO	-	ND	ND	ND	-	-	-	-		-
10/26/92	ENV PRO	-	ND	ND	5	-	-	-	-		-
04/21/93	ENV PRO	-	ND	ND	60	-	-	-	-		-
04/28/93	21st CEN	-	1.2	2.8	ND	-	-	-	-		BNA Only
02/03/94	21st CEN	-	ND	ND	41	-	-	-	-		-
03/31/94	21st CEN	-	ND	ND	25	-	-	-	-		-
06/14/94	21st CEN	-	ND	ND	3	-	-	-	-		-
09/15/94	21st CEN	-	ND	ND	ND	-	-	-	-		-
05/25/95	EMSL	-	ND	ND	2.7	-	-	-	-		-
08/15/95	EMSL	-	21	ND	ND	-	-	-	-		-
11/21/95	EMSL	-	6.6	ND	ND	-	-	-	-		-
02/20/96	EMSL	-	5.4	ND	6	-	-	-	-		-
06/13/96	FMETL	-	ND	ND	0.7	-	-	-	-		-
09/27/96	FMETL	-	ND	ND	6.2	-	-	-	-		-
04/11/97	FMETL	-	ND	ND	1.8	-	-	-	3.15		V,Pb
08/28/97	FMETL	-	ND	ND	ND	-	-	-	4.00		V,Pb
12/02/97	FMETL	84.5	1.92	ND	10.0	5340	56.6	26900	3.10		V,S,P,M
03/04/98	FMETL	ND	1.67	1.29	ND	13900	144	39600	2.48		V,S,P,M
06/19/98	FMETL	-	ND	ND	ND	-	-	-	3.99		V,Pb

SOURCE: MW3

Sampling Dates:
12/10/91 - 06/19/98

NOTES:

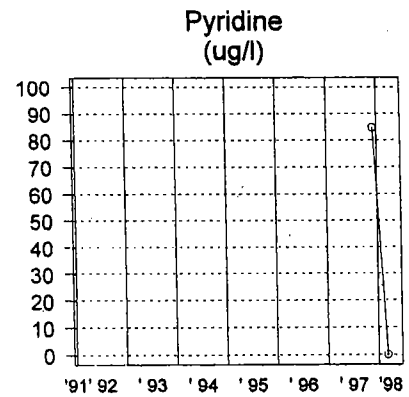
Page 3 of 3

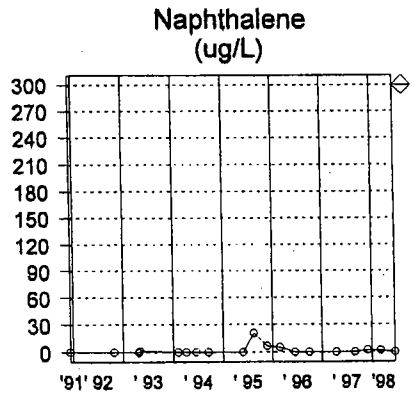
FORT MONMOUTH

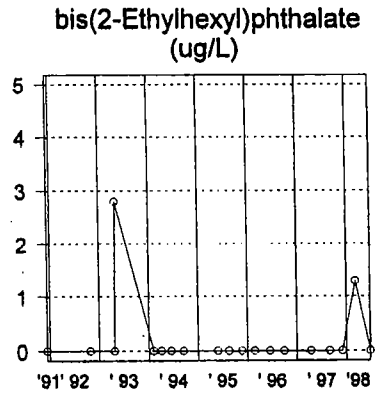
GW MONITORING
Bldg. 2567

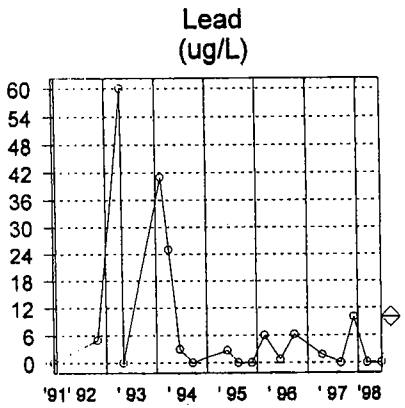
Well 3 of 5

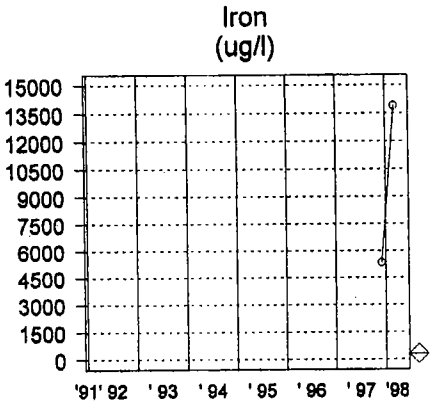
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

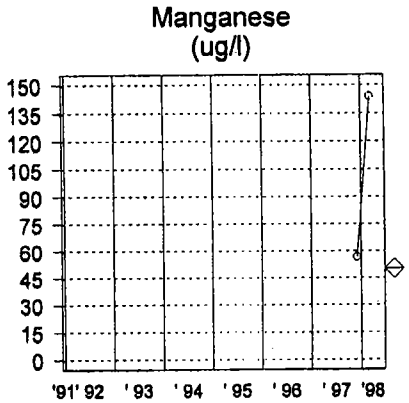


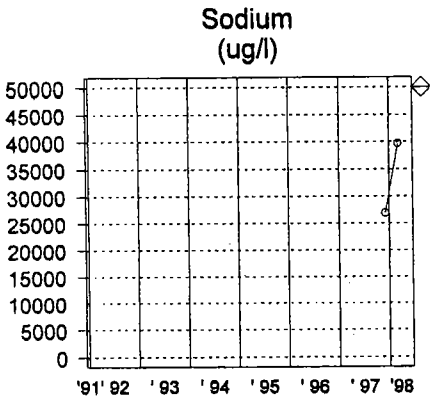


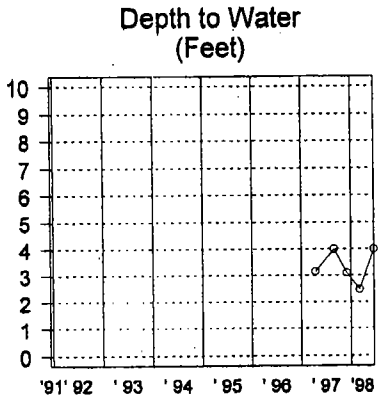












SOURCE: MW3

Sampling Dates:
12/10/91 - 06/19/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 3 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Methylene chloride	Benzene	Xylene	Methyl tertiary butyl ether	Toluene	Ethyl benzene	Acetone	Butyl benzyl phthalate	Vinyl Acetate	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	2	1	1000	NA	1000	700	700	100	NA	-
12/10/91	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/92	ENV PRO	27	ND	ND	ND	ND	ND	ND	ND	ND	-
04/21/93	ENV PRO	ND	ND	ND	ND	ND	ND	2.4	ND	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	10	ND	BNA Only
02/03/94	21st CEN	5.0	14	60	ND	56	8.9	ND	ND	1.3	-
03/31/94	21st CEN	2.3	ND	ND	1.3	ND	ND	ND	ND	ND	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
05/25/95	EMSL	1.0	ND	ND	ND	ND	ND	ND	ND	ND	-
08/15/95	EMSL	1.3	ND	ND	ND	ND	ND	ND	ND	ND	-
11/21/95	EMSL	0.6	ND	ND	ND	ND	ND	ND	ND	ND	-
02/20/96	EMSL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/19/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: MW4

Sampling Dates:
12/10/91 - 06/19/98

NOTES:

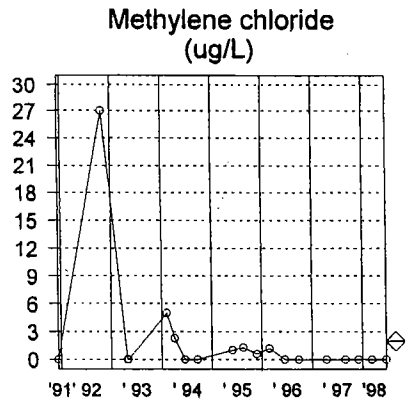
Page 1 of 2.

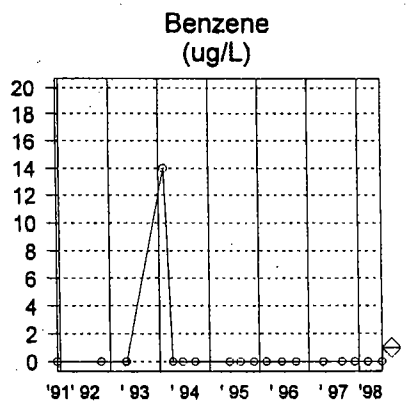
FORT MONMOUTH

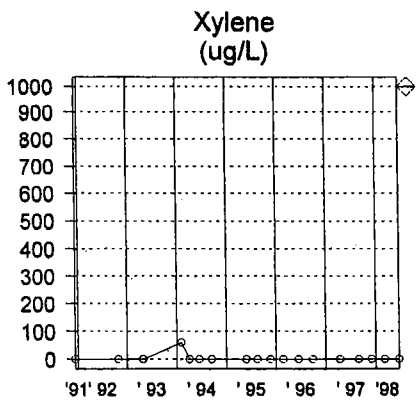
GW MONITORING
Bldg. 2567

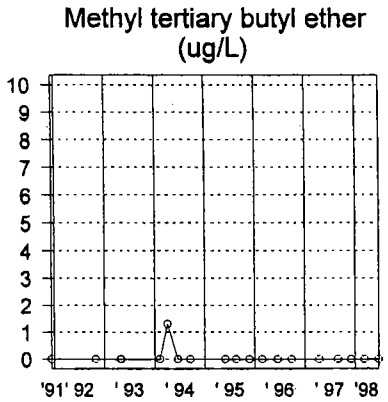
Well 4 of 5

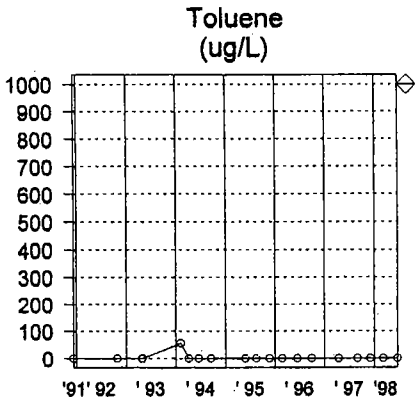
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

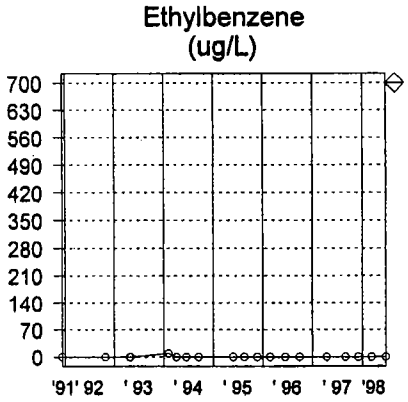


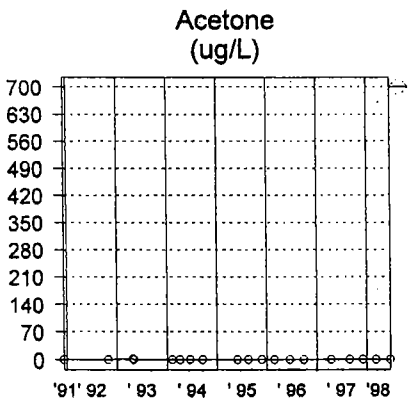


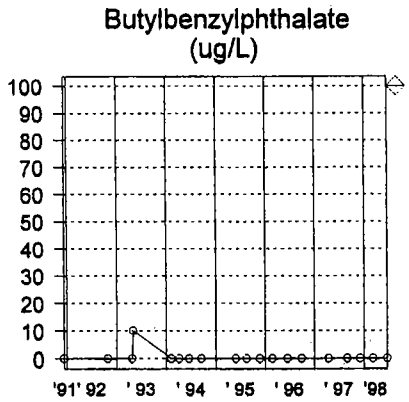


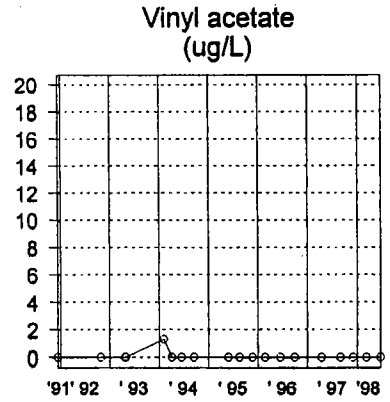












SOURCE: MW4

Sampling Dates:
12/10/91 - 06/19/98

LEGEND:

PARAMETER

○ = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 4 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Di-n-butyl phthalate	bis(2-Ethyl hexyl) phthalate	Lead	Iron	Manganese	Sodium	Depth to Water			Notes
Units:	-	ug/l	ug/L	ug/L	ug/l	ug/l	ug/l	Feet			-
NJDEP Criteria:	-	900	30	10	300	50	50000	-			-
12/10/91	EMSL	-	ND	5	-	-	-	-			-
10/26/92	ENV PRO	-	ND	ND	-	-	-	-			-
04/21/93	ENV PRO	-	ND	ND	-	-	-	-			-
04/28/93	21st CEN	-	ND	ND	-	-	-	-			BNA Only
02/03/94	21st CEN	-	ND	ND	-	-	-	-			-
03/31/94	21st CEN	-	ND	ND	-	-	-	-			-
06/14/94	21st CEN	-	ND	ND	-	-	-	-			-
09/15/94	21st CEN	-	ND	ND	-	-	-	-			-
05/25/95	EMSL	-	ND	ND	-	-	-	-			-
08/15/95	EMSL	-	ND	2.6	-	-	-	-			-
11/21/95	EMSL	-	ND	ND	-	-	-	-			-
02/20/96	EMSL	-	ND	ND	-	-	-	-			-
06/13/96	FMETL	-	ND	1.8	-	-	-	-			-
09/27/96	FMETL	-	ND	ND	-	-	-	-			-
04/11/97	FMETL	-	ND	2.3	-	-	-	2.55			V,Pb
08/28/97	FMETL	-	ND	ND	-	-	-	3.20			V,Pb
12/02/97	FMETL	1.37	ND	9.0	3590	90	15600	2.45			V,S,P,M
03/04/98	FMETL	ND	1.03	ND	4200	79	12600	2.11			V,S,P,M
06/19/98	FMETL	-	ND	ND	-	-	-	2.33			V,Pb

SOURCE: MW4

Sampling Dates:
12/10/91 - 06/19/98

NOTES:

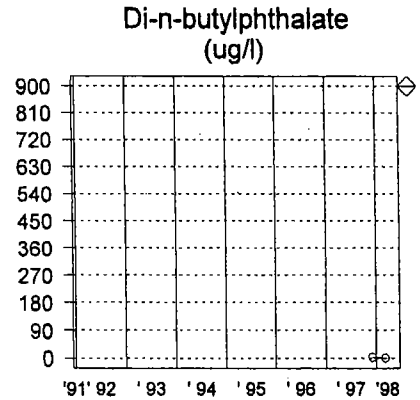
Page 2 of 2.

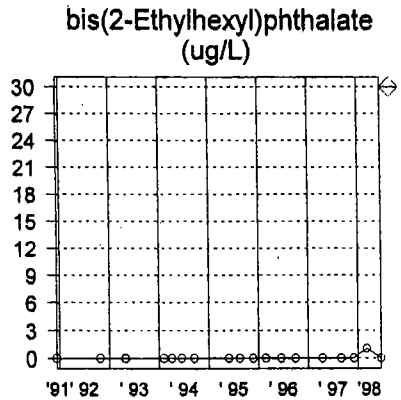
FORT MONMOUTH

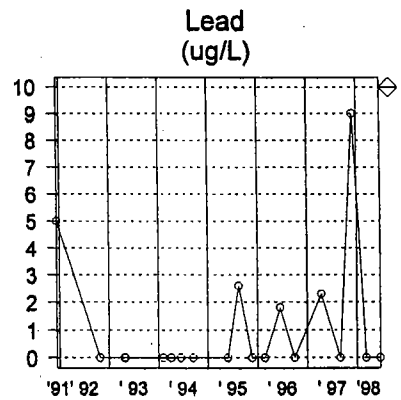
GW MONITORING
Bldg. 2567

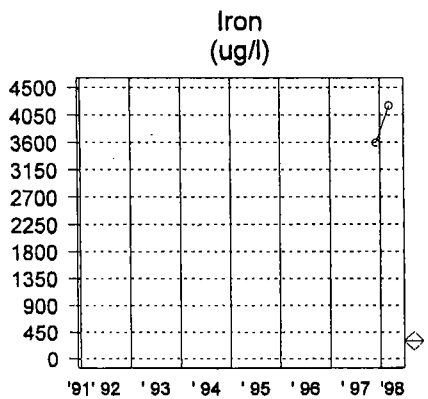
Well 4 of 5

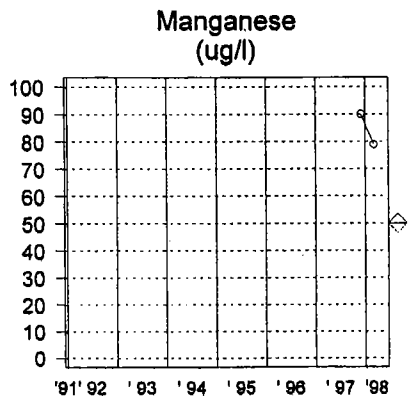
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

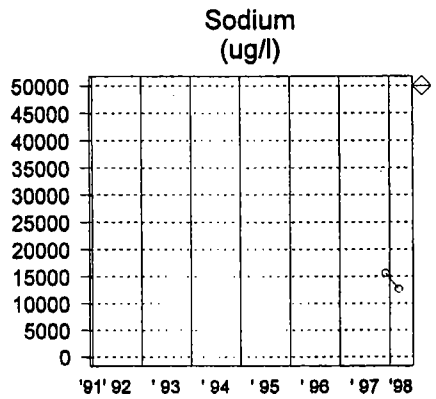


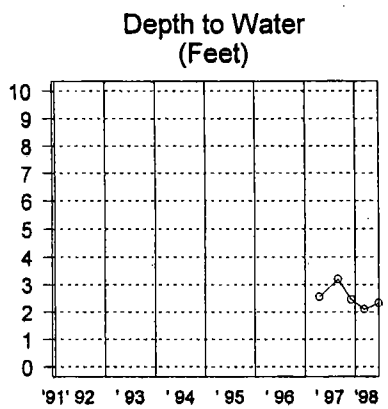












SOURCE: MW4

Sampling Dates:
12/10/91 - 06/19/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 4 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Methylene chloride	n-Ethyl formamide (TIC)	2-Nonen -1-ol (TIC)	Lead	Iron	Manganese	Sodium	Depth to Water		Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/l	ug/l	ug/l	Feet		-
NJDEP Criteria:	-	2	-	-	10	300	50	50000	-		-
05/25/95	EMSL	1.2	ND	ND	4.0	-	-	-	-		-
08/15/95	EMSL	1.2	ND	ND	ND	-	-	-	-		-
11/21/95	EMSL	ND	ND	ND	ND	-	-	-	-		-
02/20/96	EMSL	0.8	ND	ND	ND	-	-	-	-		-
09/27/96	FMETL	ND	ND	ND	ND	-	-	-	-		-
04/11/97	FMETL	ND	9	6	2.7	-	-	-	7.20		V,Pb
08/28/97	FMETL	ND	ND	ND	ND	-	-	-	7.50		V,Pb
12/02/97	FMETL	ND	ND	ND	7.0	19200	100	10500	7.20		V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	16400	56	9100	7.30		V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	-	-	-	7.55		V,Pb

SOURCE: MW5

Sampling Dates:
05/25/95 - 06/01/98

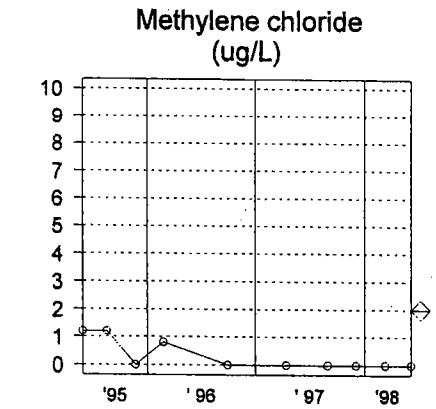
NOTES:

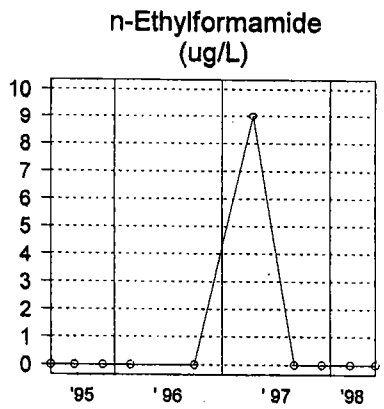
FORT MONMOUTH

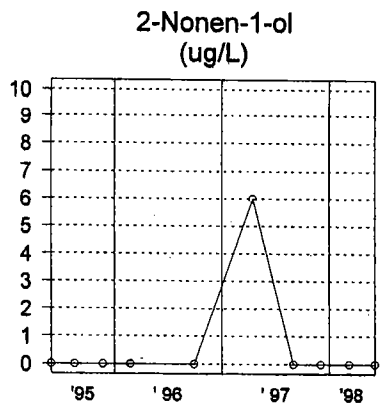
GW MONITORING
Bldg. 2567

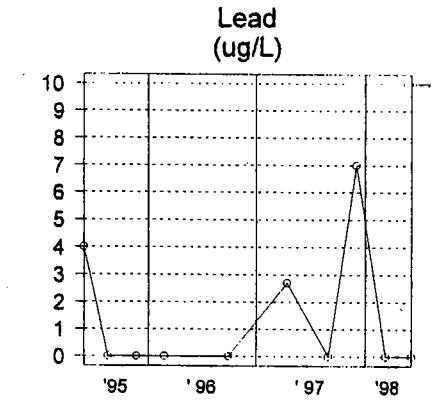
Well 5 of 5

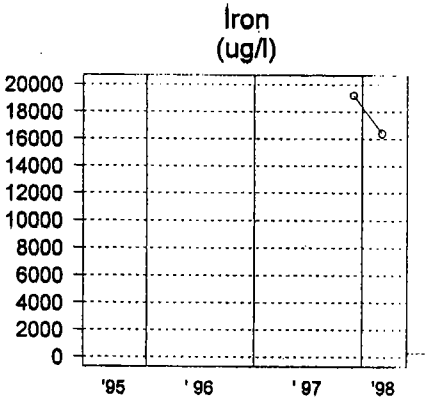
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

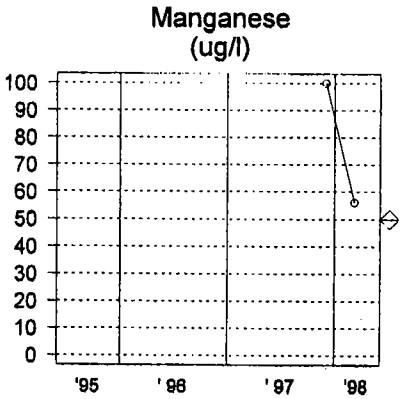


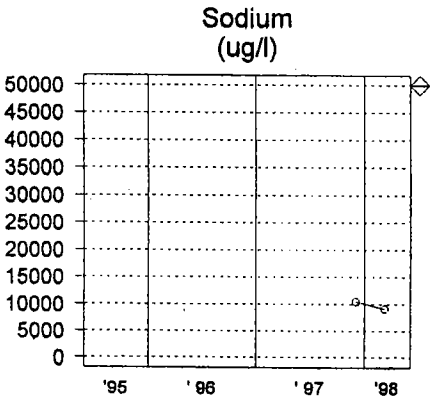


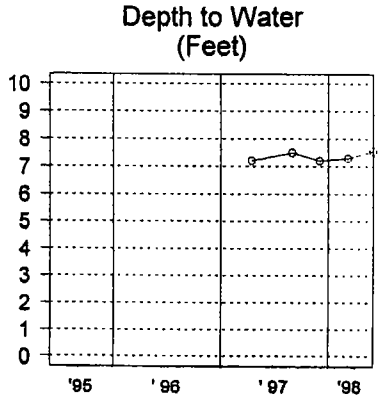












SOURCE: MW5

Sampling Dates:
05/25/95 - 06/01/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 5 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-11-1998 c:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3912.05	MW-01	29-26925	09/24/98
3912.04	MW-02	29-26926	09/24/98
3916.02	MW-03	29-26947	09/25/98
3912.03	MW-04	29-26948	09/24/98
3916.03	MW-05	29-31783	09/25/98

NJDEP Laboratory Certification # 13461

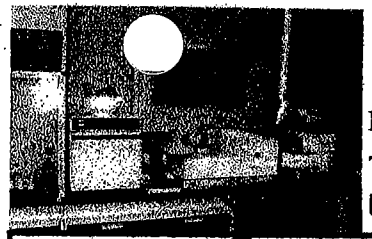
11/10/98

Daniel Wright Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: 726223
(X)ERA ( )OMA ( )Other:_____

Project No:
Location: 2567 mw's (Partial)

Samplers Name / Company: Cory McCormack, TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOTIS	Pb						Hg Lead	Remarks / Preservation Method
3912. .01	Trip	9/24/98	0755	AQ	2	✓								
.02	Field		1200		3	✓	✓							
.03	MW-04		1246		3	✓	✓						✓	0.6 ppm 29-26944
.04	MW-02		1417		3	✓	✓						✓	0.0 ppm 29-26926
.05	MW-01		1437		3	✓	✓						✓	0.2 ppm 29-26925
.06	Dupe		—		3	✓	✓							

Comments: HCl/HNO3/4°C

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Cory McCormack	9/24/98 1515	J. Vergara			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (_)Reduced, (✓)Standard, (_)Screen / non-certified
Turnaround time: (✓)Standard 4 wks, (_)Rush ____ Days, (_)ASAP Verbal ____Hrs.

Remarks: MW 03 & MW 05 on 9/25

print legibly

coc.XLS9/17/98

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. FALLON
Phone #: 826223
(X)DERA ( )OMA ( )Other:_____

Project No:
Location: 2567 mw's (2nd Part)

Samplers Name / Company: Corey McCormack, TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOTIS	Pb						Hnu Lead	Comments: HCL/HNO3/<4°c Remarks / Preservation Method
3916 .01	Field Blank	9/25/98	1300	AQ	3	✓	✓							
.02	MW-03	↓	1435	↓	3	✓	✓						✓	11.1 ppm 29-26947
.03	MW-05	↓	1417	↓	3	✓	✓						✓	6.8 ppm 29-31783

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	9/25/98 1500	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

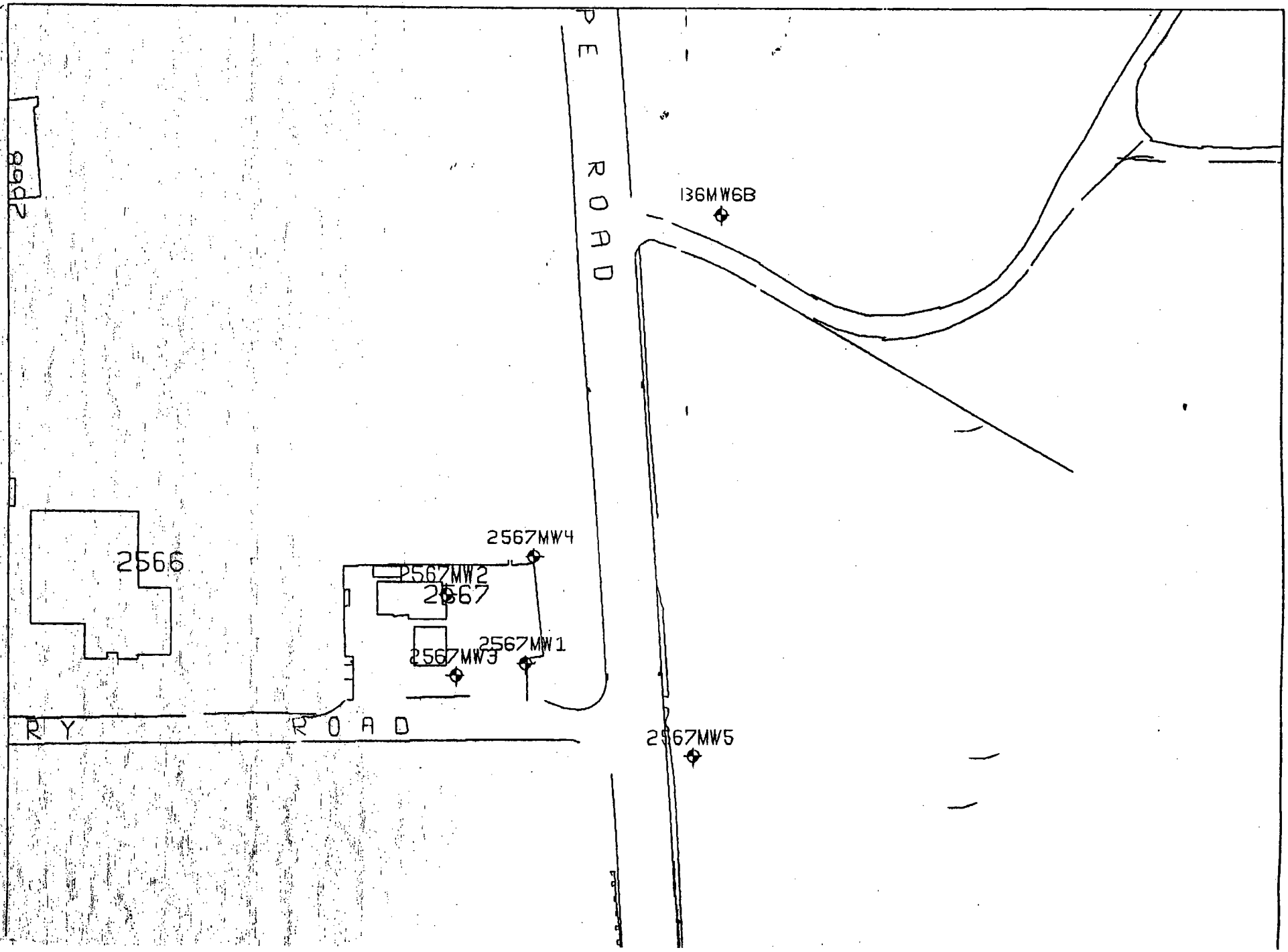
Report Type: (_)Full, (_)Reduced, (✓)Standard, (_)Screen / non-certified
Turnaround time: (✓)Standard 4 wks, (_)Rush ____ Days, (_)ASAP Verbal ____Hrs.

Remarks:

print legibly

coc.XLS9/24/98

BLDG. 2567


ROAD
136MW6B
2566
2567MW4
2567MW2
2567
2567MW1
2567MW3
RY ROAD
2567MW5

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 9 / 24 / 98
WEATHER: CLEAR, COOL, SLIGHTLY BREEZY

ELEV. OF CASING SURVEY MARK: 33.93 ft
DEPTH TO WATER: 5.21 ft
DEPTH OF WELL: 13.10 ft
HEIGHT OF WATER: 7.89 ft
(7.89) X .65 X 3 = 15.38
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.21 gpm
Hnu READING: 0.2 ppm

PURGE START TIME: 1328
pH 6.84 su TEMP 21.9 °C
DISSOLVED O2 6.60 ppm SPECIFIC CONDUCTIVITY 533 us/cm

PURGE END TIME: 1437
pH 6.80 su TEMP 21.2 °C
DISSOLVED O2 5.24 ppm SPECIFIC CONDUCTIVITY 698 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 6.39 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 15 gal

pH 6.76 su TEMP 21.0 °C
DISSOLVED O2 5.18 ppm SPECIFIC CONDUCTIVITY 644 us/cm

COMMENTS: SLIGHT ODOR.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 9 / 24 / 98
WEATHER: CLEAR, COOL, SLIGHTLY BREEZY

ELEV. OF CASING SURVEY MARK: 35.26 ft
DEPTH TO WATER: 12.20 ft
DEPTH OF WELL: 4.73 ft
HEIGHT OF WATER: 7.47 ft
(7.47) X .65 X 3 = 14.56
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 1312
pH 6.58 su TEMP 21.4 °C
DISSOLVED O2 2.54 ppm SPECIFIC CONDUCTIVITY 543 us/cm

PURGE END TIME: 1417
pH 6.36 su TEMP 20.8 °C
DISSOLVED O2 5.78 ppm SPECIFIC CONDUCTIVITY 631 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.54 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 15 gal

pH 6.45 su TEMP 20.2 °C
DISSOLVED O2 5.92 ppm SPECIFIC CONDUCTIVITY 642 us/cm

COMMENTS: DUPE HERE.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 9 / 25 / 98
WEATHER: OVERCAST, COOL, BREEZY, LIGHT DRIZZLE.

ELEV. OF CASING SURVEY MARK: 33.88 ft
DEPTH TO WATER: 4.56 ft
DEPTH OF WELL: 12.50 ft
HEIGHT OF WATER: 7.94 ft
(7.94) X .65 X 3 = 15.48
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.24 gpm
Hnu READING: 11.1 ppm

PURGE START TIME: 1334
pH 6.54 su TEMP 19.9 °C
DISSOLVED O2 7.13 ppm SPECIFIC CONDUCTIVITY 124 us/cm

PURGE END TIME: 1435
pH 6.94 su TEMP 19.3 °C
DISSOLVED O2 6.97 ppm SPECIFIC CONDUCTIVITY 122 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 6.41 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 15 gal

pH 6.73 su TEMP 19.1 °C
DISSOLVED O2 6.90 ppm SPECIFIC CONDUCTIVITY 120 us/cm

COMMENTS: CLOUDY, ODOR. HEAVY ODOR AFTER PURGING.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 9 / 24 / 98
WEATHER: CLEAR, COOL, SLIGHTLY BREEZY

ELEV. OF CASING SURVEY MARK: 33.51 ft
DEPTH TO WATER: 3.55 ft
DEPTH OF WELL: 11.66 ft
HEIGHT OF WATER: 8.11 ft
(8.11) X .65 X 3 = 15.81
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.24 gpm
Hnu READING: 0.6 ppm

PURGE START TIME: 1141
pH 7.31 su TEMP 20.1 °C
DISSOLVED O2 9.25 ppm SPECIFIC CONDUCTIVITY 133 us/cm

PURGE END TIME: 1246
pH 6.06 su TEMP 19.4 °C
DISSOLVED O2 6.88 ppm SPECIFIC CONDUCTIVITY 173 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.98 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 16 gal

pH 6.17 su TEMP 19.2 °C
DISSOLVED O2 6.76 ppm SPECIFIC CONDUCTIVITY 181 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 9 / 25 / 98
WEATHER: OVERCAST, COOL, BREEZY

ELEV. OF CASING SURVEY MARK: 34.99 ft
DEPTH TO WATER: 7.59 ft
DEPTH OF WELL: 14.75 ft
HEIGHT OF WATER: 7.16 ft
(7.16) X .65 X 3 = 13.96
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.22 gpm
Hnu READING: 6.8 ppm

PURGE START TIME: 1314
pH 6.35 su TEMP 19.0 °C
DISSOLVED O2 7.66 ppm SPECIFIC CONDUCTIVITY 515 us/cm

PURGE END TIME: 1417
pH 5.17 su TEMP 18.4 °C
DISSOLVED O2 7.43 ppm SPECIFIC CONDUCTIVITY 639 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.13 ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

pH 4.57 su TEMP 18.3 °C
DISSOLVED O2 7.27 ppm SPECIFIC CONDUCTIVITY 784 us/cm

COMMENTS: CLOUDY. REBUFFERED PH METER AFTER 2ND PH.

CASE NARRATIVE

Site: Bldg. 112
Lab ID: 3712

The duplicate analysis was performed on MW-01 (3712.02).

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v04742.d	Sample Name	VBLK104
Operator	Skelton	Field ID	VBLK104
Date Acquired	5 Oct 1998 9:14	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v04756.d	Sample Name	3912.01
Operator	Skelton	Field ID	Trip Blank
Date Acquired	5 Oct 1998 20:08	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	12.93	8505	2.47 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v04762.d	Sample Name	3916.01
Operator	Skelton	Field ID	Field Blank
Date Acquired	6 Oct 1998 00:27	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**v04757.d**	Sample Name	**3912.02**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**5 Oct 1998 20:51**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v04763.d	Sample Name	3916.02
Operator	Skelton	Field ID	MW-03
Date Acquired	6 Oct 1998 1:11	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	13.54	180734	27.27 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene	20.17	74320	5.96 ug/L	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes	29.11	21292	3.62 ug/L	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v04758.d	Sample Name	3912.03
Operator	Skelton	Field ID	MW-04
Date Acquired	5 Oct 1998 21:34	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v04759.d	Sample Name	3912.04
Operator	Skelton	Field ID	MW-02
Date Acquired	5 Oct 1998 22:18	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v04760.d	Sample Name	3912.05
Operator	Skelton	Field ID	MW-01
Date Acquired	5 Oct 1998 23:01	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	11.46	166762	283.31 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	13.54	65842	10.02 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	V04761.D	Sample Name	3912.06
Operator	Skelton	Field ID	Field Dupe
Date Acquired	5 Oct 1998 23:44	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	12.93	7505	2.16 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	v04764.d	Sample Name	3916.03
Operator	Skelton	Field ID	MW-05
Date Acquired	6 Oct 1998 1:54	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

VBLK104

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3912 Location 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLK104

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04742.D

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

VBLK104

Lab Name: FMETL Project LTM

NJDEP # 13461 Case No.: 3916 Location 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: VBLK104

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04742.D

Level: (low/med) LOW Date Received: 09/25/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Trip Blank

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3912 Location 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3912.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04756.D

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3912 Location 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3912.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04757.D

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Project LTM

NJDEP # 13461 Case No.: 3916 Location 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3916.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04762.D

Level: (low/med) LOW Date Received: 09/25/98

% Moisture: not dec. Date Analyzed: 10/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW-04

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3912 Location 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3912.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04758.D

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	13.39	11	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW-02

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3912 Location 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3912.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04759.D

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	14.25	13	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW-01

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3912 Location 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3912.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04760.D

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	13.38	27	J
2. 000624-64-6	2-Butene, (E)-	14.25	13	JN

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Dupe

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 3912 Location 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3912.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04761.D

Level: (low/med) LOW Date Received: 09/24/98

% Moisture: not dec. Date Analyzed: 10/05/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	13.37	54	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW-03

Lab Name: FMETL Project LTM

NJDEP # 13461 Case No.: 3916 Location 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3916.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04763.D

Level: (low/med) LOW Date Received: 09/25/98

% Moisture: not dec. Date Analyzed: 10/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

. VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW-05

Lab Name: FMETL Project LTM

NJDEP # 13461 Case No.: 3916 Location 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 3916.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V04764.D

Level: (low/med) LOW Date Received: 09/25/98

% Moisture: not dec. Date Analyzed: 10/06/98

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 09/29/98
Analysis Completed: 09/29/98

Site: Ft. Monmouth
Building 2567

Matrix: Aqueous

Method of Analysis: Std. Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: LEAD

Laboratory ID#	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 09/29/98
Analysis Completed: 09/29/98

Site: Ft. Monmouth
Building 2567

Matrix: Aqueous

Method of Analysis: Std. Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: LEAD

Laboratory ID#	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3912.02-.06
Sample Received: 09/24/98
Analysis Start: 09/29/98
Analysis Completed: 09/29/98

Site: Ft. Monmouth
Building 2567

Matrix: Aqueous

Method of Analysis: Std. Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: LEAD

Laboratory ID#	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
3912.02	Field Blank	ND	10	0.8
3912.03	MW-04	ND	10	0.8
3912.04	MW-02	ND	10	0.8
3912.05	MW-01	ND	10	0.8
3912.06	Dup	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3916.01-.03
Sample Received: 09/25/98
Analysis Start: 09/29/98
Analysis Completed: 09/29/98

Site: Ft. Monmouth
Building 2567

Matrix: Aqueous

Method of Analysis: Std. Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: LEAD

Laboratory ID#	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
3916.02	Field Blank	ND	10	0.8
3916.03	MW-03	ND	10	0.8
3916.04	MW-05	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

	Lab	Methylene chloride	Benzene	Xylene	Tert-butyl alcohol	Methyl tertiary butyl ether	Toluene	Chloro benzene	Ethyl benzene	Acetone	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	2	1	1000	NA	70	1000	4	700	700	-
12/10/91	ENV PRO	240	2400	42	4400	2200	ND	ND	ND	ND	-
10/26/92	ENV PRO	420	2800	302	5400	1200	73	99	90	ND	-
10/26/92D	ENV PRO	130	3200	57	7000	1500	ND	ND	ND	ND	-
04/21/93	21st CEN	16	520	ND	470	890	ND	ND	ND	ND	-
04/28/93	21st CEN	-	-	-	-	-	-	-	-	-	BNA Only
02/03/94	21st CEN	26	21	41	28	650	66	ND	16	54	-
03/31/94	21st CEN	ND	ND	ND	22	10	ND	ND	ND	6.9	-
06/14/94	21st CEN	ND	ND	ND	120	88	ND	ND	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	600	56	ND	ND	ND	ND	-
05/25/95	EMSL	1.5	ND	ND	930	110	0.7	ND	ND	ND	-
08/15/95	EMSL	1.3	ND	ND	930	29	ND	ND	ND	ND	-
11/21/95	EMSL	36	ND	ND	860	80	ND	ND	ND	ND	-
02/20/96	EMSL	2.1	ND	ND	780	100	ND	ND	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	39.4	72.7	ND	240	1.3	ND	ND	ND	V,Pb
12/02/97	FMETL	ND	ND	ND	357	20.3	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	560	37	ND	ND	ND	ND	V,S,P,M
06/01/98	FMETL	ND	ND	ND	95.63	24.23	ND	ND	ND	ND	V.Pb
09/24/98	FMETL	ND	ND	ND	283	10.02	ND	ND	ND	ND	V,Pb

SOURCE: MW1

Sampling Dates:
12/10/91 - 09/24/98

NOTES:

Page 1 of 2.

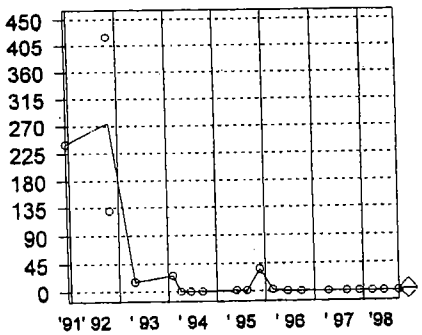
FORT MONMOUTH

GW MONITORING
Bldg. 2567

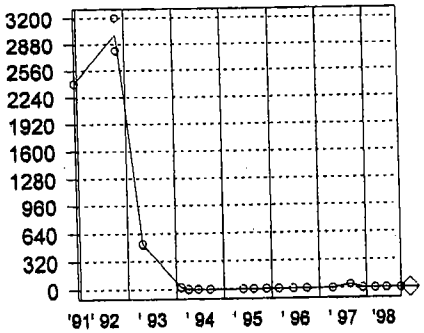
Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

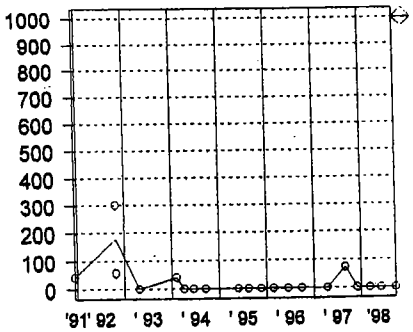
Methylene chloride (ug/L)



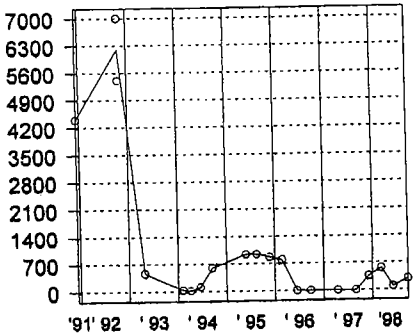
Benzene (ug/L)



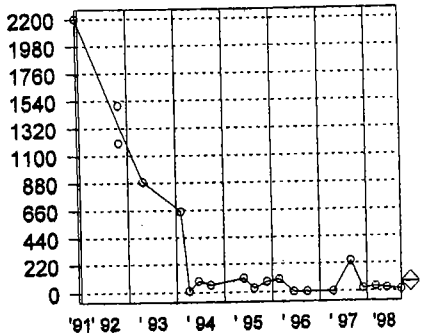
Xylene (ug/L)



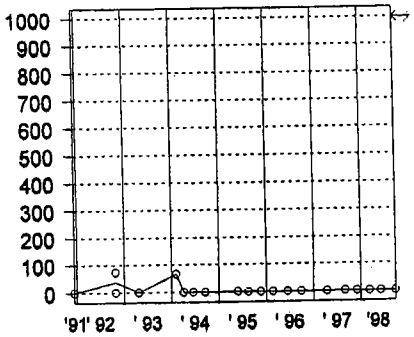
Tert-butyl alcohol (ug/L)



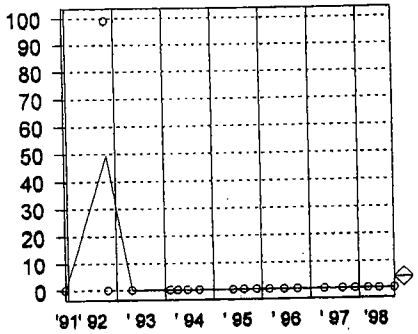
Methyl tertiary butyl ether (ug/L)



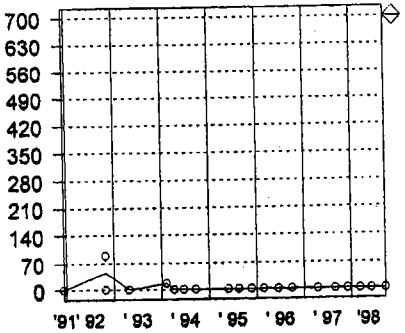
Toluene (ug/L)



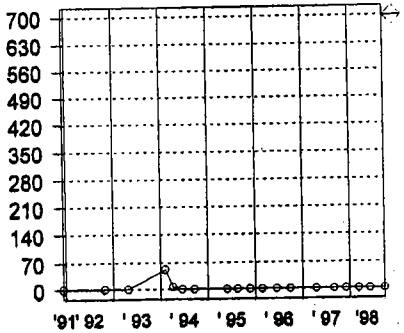
Chlorobenzene (ug/L)



Ethylbenzene (ug/L)



Acetone (ug/L)



SOURCE: MW1

Sampling Dates:
12/10/91 - 09/24/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Lead	Iron	Manganese	Sodium	Depth to Water					Notes
Units:	-	ug/L	ug/l	ug/l	ug/l	Feet					-
NJDEP Criteria:	-	10	300	50	50000	-					-
12/10/91	ENV PRO	4	-	-	-	-					-
10/26/92	ENV PRO	ND	-	-	-	-					-
10/26/92D	ENV PRO	ND	-	-	-	-					-
04/21/93	21st CEN	70	-	-	-	-					-
04/28/93	21st CEN	-	-	-	-	-					BNA Only
02/03/94	21st CEN	ND	-	-	-	-					-
03/31/94	21st CEN	ND	-	-	-	-					-
06/14/94	21st CEN	ND	-	-	-	-					-
09/15/94	21st CEN	ND	-	-	-	-					-
05/25/95	EMSL	ND	-	-	-	-					-
08/15/95	EMSL	3.3	-	-	-	-					-
11/21/95	EMSL	ND	-	-	-	-					-
02/20/96	EMSL	4	-	-	-	-					-
06/13/96	FMETL	1.2	-	-	-	-					-
09/27/96	FMETL	ND	-	-	-	-					-
04/11/97	FMETL	2.5	-	-	-	3.80					V,Pb
08/28/97	FMETL	1.4	-	-	-	4.80					V,Pb
12/02/97	FMETL	7.0	4110	93	76000	3.90					V,S,P,M
03/04/98	FMETL	ND	5800	108	48900	3.51					V,S,P,M
06/01/98	FMETL	0.5	-	-	-	4.06					V.Pb
09/24/98	FMETL	ND	-	-	-	5.21					V,Pb

SOURCE: MW1

Sampling Dates:
12/10/91 - 09/24/98

NOTES:

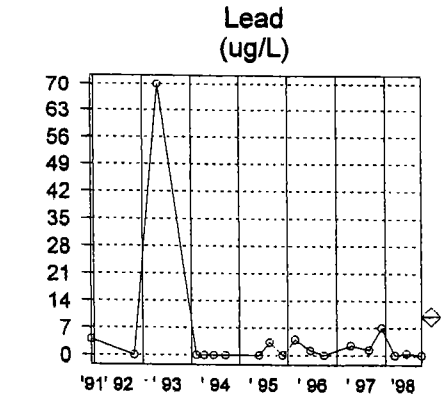
Page 2 of 2.

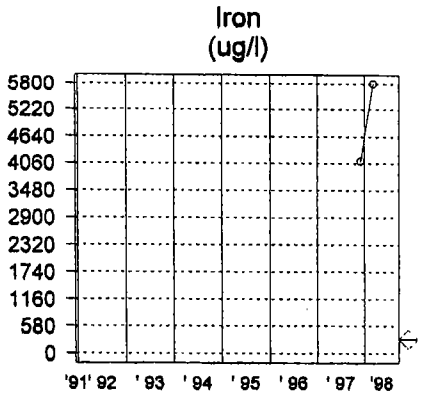
FORT MONMOUTH

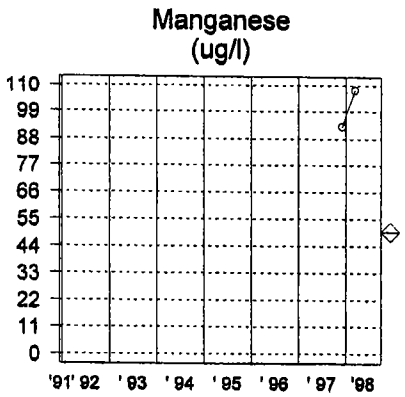
GW MONITORING
Bldg. 2567

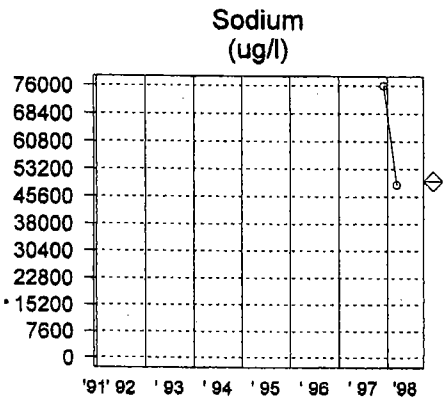
Well 1 of 5

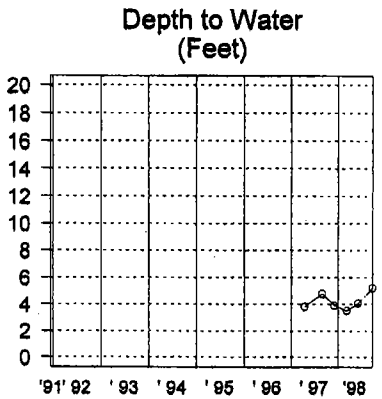
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV











SOURCE: MW1

Sampling Dates:
12/10/91 - 09/24/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Methylene chloride	Benzene	Xylene	Methyl tertiary butyl ether	Toluene	Ethyl benzene	Acetone	Butyl benzyl phthalate	Naphthalene	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	2	1	1000	70	1000	700	700	100	300	-
12/10/91	ENV PRO	7	3	ND	ND	ND	ND	ND	ND	ND	-
10/26/92	ENV PRO	23	ND	3	ND	ND	ND	ND	ND	ND	-
04/21/93	ENV PRO	ND	ND	2.0	ND	ND	ND	2.5	ND	ND	-
04/28/93	21st CEN	-	-	-	-	-	-	-	18	ND	BNA Only
02/03/94	21st CEN	4.0	19	43	7.0	55	7.4	ND	ND	ND	-
03/31/94	21st CEN	17	ND	2.5	11	ND	ND	140	ND	ND	-
06/14/94	21st CEN	ND	ND	3.0	11	ND	1.1	ND	ND	ND	-
09/15/94	21st CEN	ND	ND	5.5	4.1	1.8	1.2	ND	ND	ND	-
05/25/95	EMSL	0.9	ND	6.5	3.1	ND	0.8	ND	ND	11	-
08/15/95	EMSL	1.3	ND	5.3	2.5	ND	ND	ND	ND	11	-
11/21/95	EMSL	0.6	ND	3.6	1.6	ND	ND	ND	ND	7.3	-
02/20/96	EMSL	2.0	ND	4.2	2	ND	ND	ND	ND	7.2	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	4.79	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	1.67	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: MW2

Sampling Dates:
12/10/91 - 09/24/98

NOTES:

Page 1 of 2.

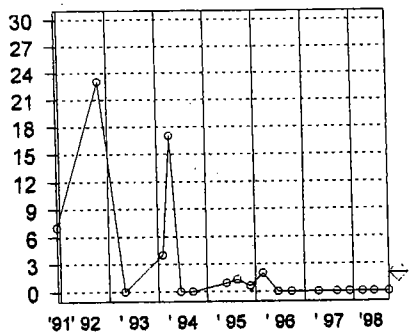
FORT MONMOUTH

GW MONITORING
Bldg. 2567

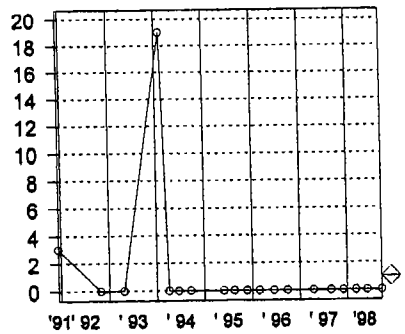
Well 2 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

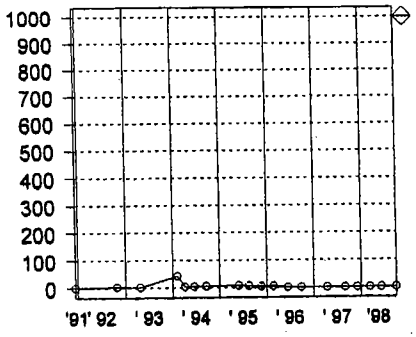
Methylene chloride
(ug/L)



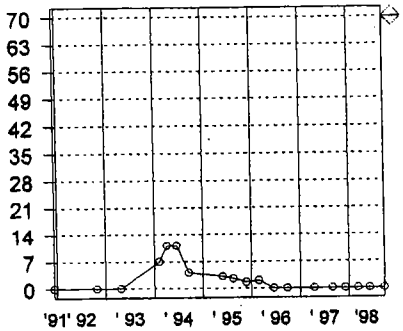
Benzene
(ug/L)



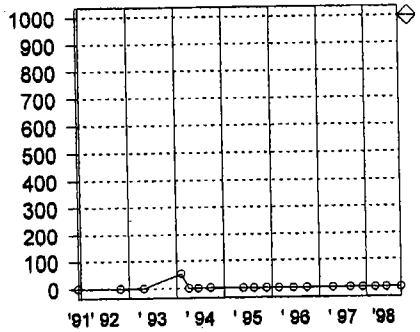
Xylene
(ug/L)



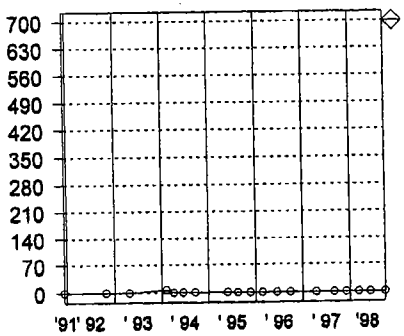
Methyl tertiary butyl ether
(ug/L)



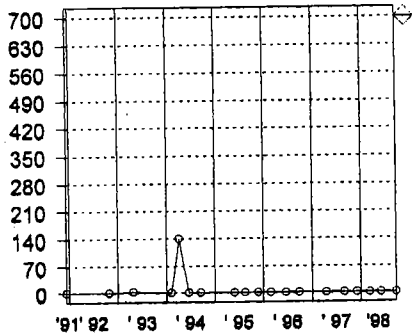
Toluene
(ug/L)



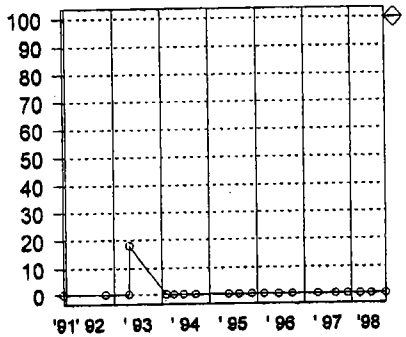
Ethylbenzene
(ug/L)



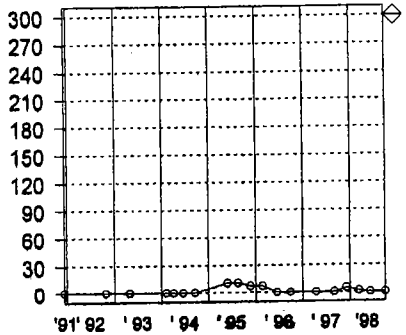
Acetone
(ug/L)



Butylbenzylphthalate
(ug/L)



Naphthalene
(ug/L)



SOURCE: MW2

Sampling Dates:
12/10/91 - 09/24/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 2 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Lead	Iron	Manganese	Sodium	Depth to Water					Notes
Units:	-	ug/L	ug/l	ug/l	ug/l	Feet					-
NJDEP Criteria:	-	10	300	50	50000	-					-
12/10/91	ENV PRO	ND	-	-	-	-					-
10/26/92	ENV PRO	11	-	-	-	-					-
04/21/93	ENV PRO	ND	-	-	-	-					-
04/28/93	21st CEN	ND	-	-	-	-					BNA Only
02/03/94	21st CEN	260	-	-	-	-					-
03/31/94	21st CEN	ND	-	-	-	-					-
06/14/94	21st CEN	ND	-	-	-	-					-
09/15/94	21st CEN	ND	-	-	-	-					-
05/25/95	EMSL	ND	-	-	-	-					-
08/15/95	EMSL	5.6	-	-	-	-					-
11/21/95	EMSL	ND	-	-	-	-					-
02/20/96	EMSL	ND	-	-	-	-					-
06/13/96	FMETL	ND	-	-	-	-					-
09/27/96	FMETL	1.2	-	-	-	-					-
04/11/97	FMETL	10.7	-	-	-	3.40					V,Pb
08/28/97	FMETL	ND	-	-	-	4.30					V,Pb
12/02/97	FMETL	20	16300	272	58700	3.45					V,S,P,M
03/04/98	FMETL	8.0	12400	100	26600	2.92					V,S,P,M
06/01/98	FMETL	1.4	-	-	-	3.59					V,Pb
09/24/98	FMETL	ND	-	-	-	4.73					V,Pb

SOURCE: MW2

Sampling Dates:
12/10/91 - 09/24/98

NOTES:

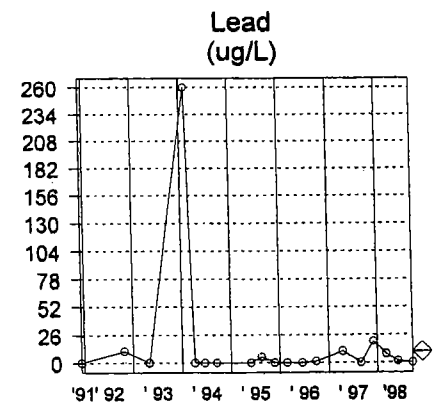
Page 2 of 2.

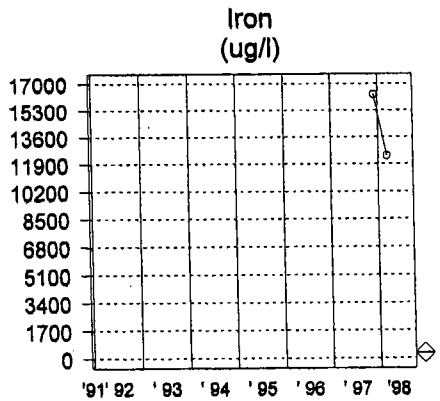
FORT MONMOUTH

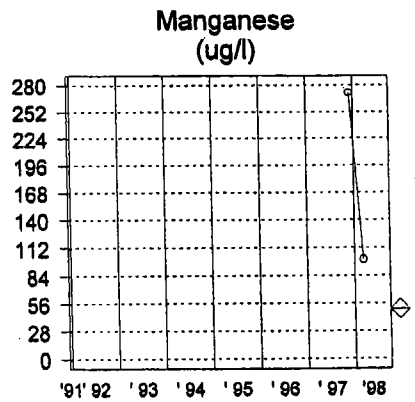
GW MONITORING
Bldg. 2567

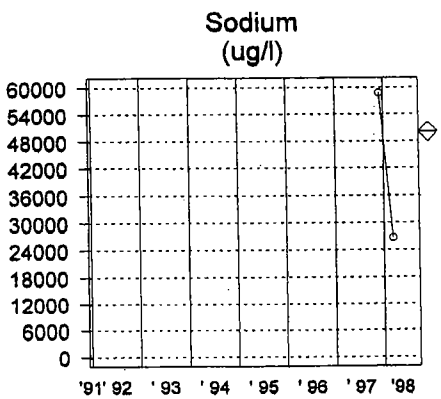
Well 2 of 5

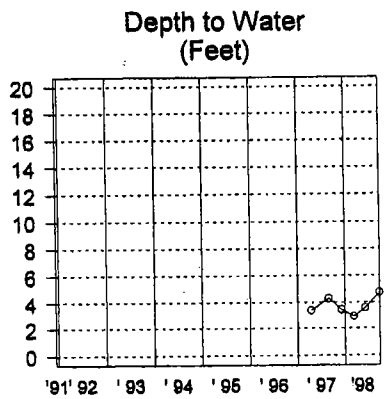
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV











SOURCE: MW2

Sampling Dates:
12/10/91 - 09/24/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 2 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Methylene chloride	Benzene	Xylene	Tert-butyl alcohol	Methyl tertiary butyl ether	Toluene	Ethyl benzene	Acetone	Butyl benzyl phthalate	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	2	1	1000	NA	70	1000	700	700	100	-
12/10/91	ENV PRO	240	110	200	ND	69	ND	ND	ND	ND	-
10/26/92	ENV PRO	24	ND	3	ND	ND	ND	ND	1	ND	-
04/21/93	ENV PRO	ND	180	74.2	ND	27	15	ND	7.7	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	12	BNA Only
02/03/94	21st CEN	4.4	19	65	ND	9.1	43	7.0	ND	ND	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/94	21st CEN	ND	15	3.4	ND	100	ND	5.4	ND	ND	-
09/15/94	21st CEN	ND	ND	1.4	ND	61	ND	ND	ND	ND	-
05/25/95	EMSL	21	94	190	ND	400	3.8	6.3	ND	ND	-
08/15/95	EMSL	25	89	360	ND	670	ND	8.4	ND	ND	-
11/21/95	EMSL	18	35	91	46	360	ND	ND	ND	ND	-
02/20/96	EMSL	ND	40	70	43	250	1	4.5	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	25	ND	ND	940	62	ND	ND	ND	ND	V,Pb
12/02/97	FMETL	ND	4.31	ND	ND	188	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	19	8.6	ND	102	ND	ND	ND	ND	V,S,P,M
06/19/98	FMETL	ND	4.68	ND	27.52	81.82	ND	ND	ND	ND	V,Pb
09/25/98	FMETL	ND	5.96	3.62	ND	27.27	ND	ND	ND	ND	V,Pb

SOURCE: MW3

Sampling Dates:
12/10/91 - 09/25/98

NOTES:

Page 1 of 2.

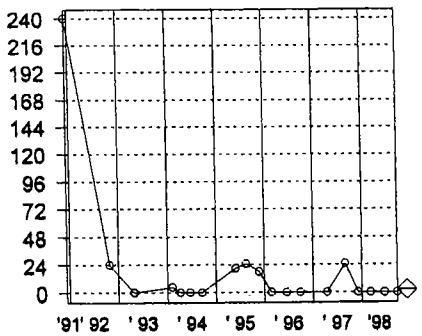
FORT MONMOUTH

GW MONITORING
Bldg. 2567

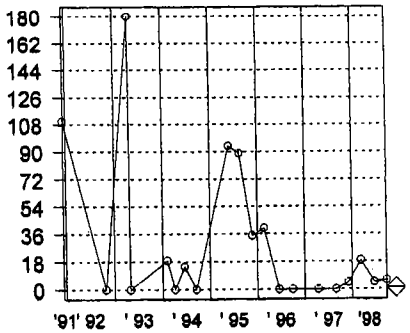
Well 3 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

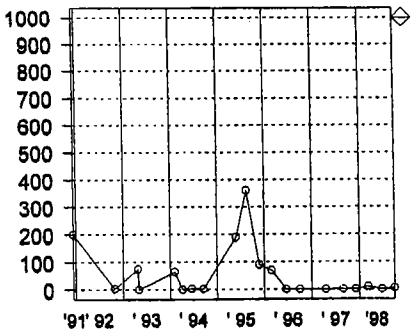
Methylene chloride
(ug/L)



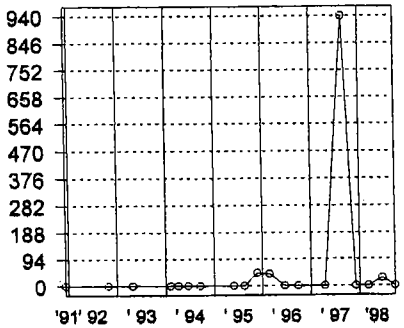
Benzene
(ug/L)



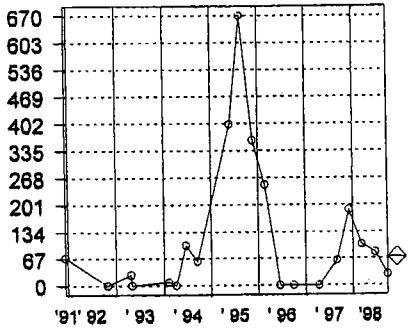
Xylene
(ug/L)



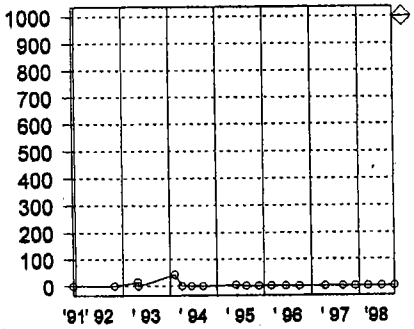
Tert-butyl alcohol
(ug/L)



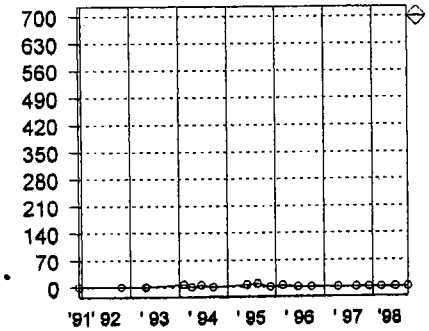
Methyl tertiary butyl ether
(ug/L)



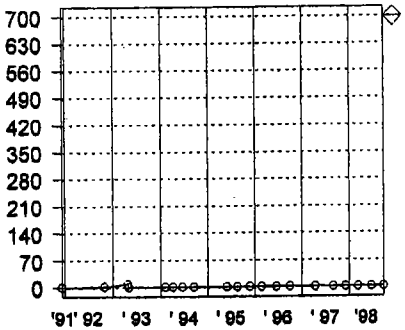
Toluene
(ug/L)



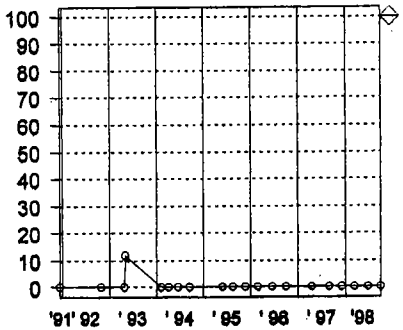
Ethylbenzene
(ug/L)



Acetone
(ug/L)



Butylbenzylphthalate
(ug/L)



SOURCE: MW3

Sampling Dates:
12/10/91 - 09/25/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 3 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Pyridine	Naphthalene	bis(2-Ethyl hexyl) phthalate	Lead	Iron	Manganese	Sodium	Depth to Water		Notes
Units:	-	ug/l	ug/L	ug/L	ug/L	ug/l	ug/l	ug/l	Feet		-
NJDEP Criteria:	-	NLE	300	30	10	300	50	50000	-		-
12/10/91	ENV PRO	-	ND	ND	ND	-	-	-	-		-
10/26/92	ENV PRO	-	ND	ND	5	-	-	-	-		-
04/21/93	ENV PRO	-	ND	ND	60	-	-	-	-		-
04/28/93	21st CEN	-	1.2	2.8	ND	-	-	-	-		BNA Only
02/03/94	21st CEN	-	ND	ND	41	-	-	-	-		-
03/31/94	21st CEN	-	ND	ND	25	-	-	-	-		-
06/14/94	21st CEN	-	ND	ND	3	-	-	-	-		-
09/15/94	21st CEN	-	ND	ND	ND	-	-	-	-		-
05/25/95	EMSL	-	ND	ND	2.7	-	-	-	-		-
08/15/95	EMSL	-	21	ND	ND	-	-	-	-		-
11/21/95	EMSL	-	6.6	ND	ND	-	-	-	-		-
02/20/96	EMSL	-	5.4	ND	6	-	-	-	-		-
06/13/96	FMETL	-	ND	ND	0.7	-	-	-	-		-
09/27/96	FMETL	-	ND	ND	6.2	-	-	-	-		-
04/11/97	FMETL	-	ND	ND	1.8	-	-	-	3.15		V,Pb
08/28/97	FMETL	-	ND	ND	ND	-	-	-	4.00		V,Pb
12/02/97	FMETL	84.5	1.92	ND	10.0	5340	56.6	26900	3.10		V,S,P,M
03/04/98	FMETL	ND	1.67	1.29	ND	13900	144	39600	2.48		V,S,P,M
06/19/98	FMETL	-	ND	ND	ND	-	-	-	3.99		V,Pb
09/25/98	FMETL	-	-	-	ND	-	-	-	4.56		V,Pb

SOURCE: MW3

Sampling Dates:
12/10/91 - 09/25/98

NOTES:

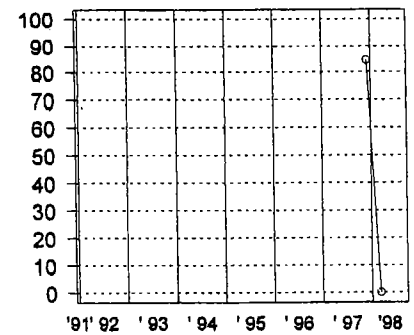
Page 2 of 2.

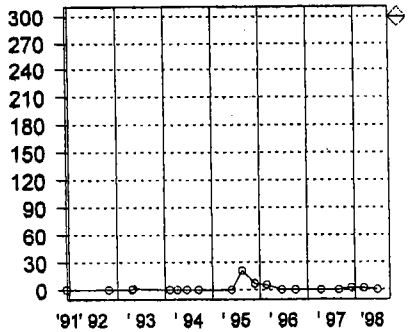
FORT MONMOUTH

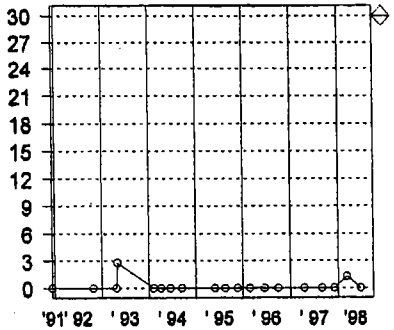
GW MONITORING
Bldg. 2567

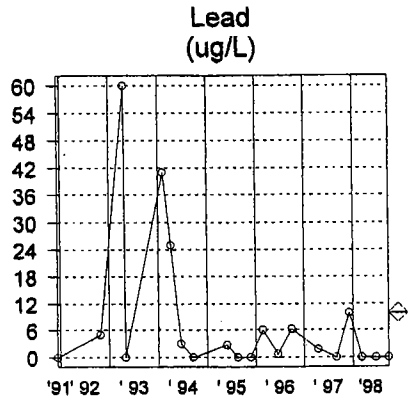
Well 3 of 5

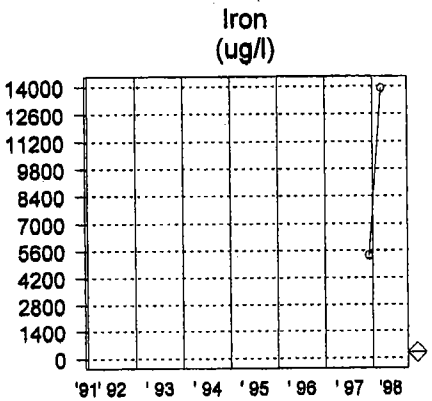
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

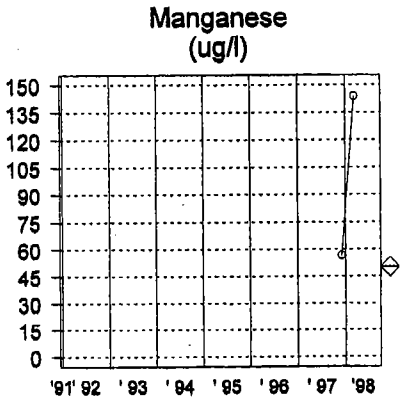


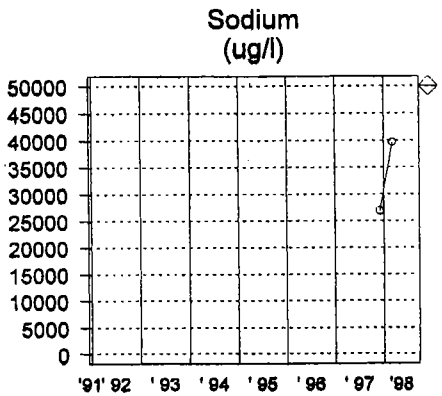


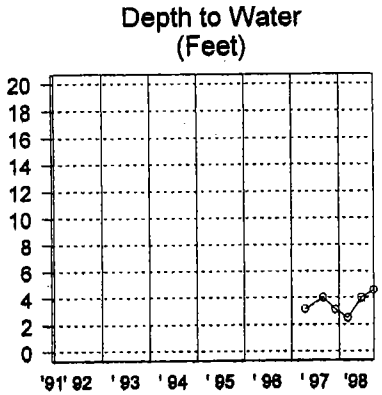












SOURCE: MW3

Sampling Dates:
12/10/91 - 09/25/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 3 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Methylene chloride	Benzene	Xylene	Toluene	Ethyl benzene	Lead	Iron	Manganese	Sodium	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l	ug/l	ug/l	-
NJDEP Criteria:	-	2	1	1000	1000	700	10	300	50	50000	-
12/10/91	EMSL	ND	ND	ND	ND	ND	5	-	-	-	-
10/26/92	ENV PRO	27	ND	ND	ND	ND	ND	-	-	-	-
04/21/93	ENV PRO	ND	ND	ND	ND	ND	ND	-	-	-	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	BNA Only
02/03/94	21st CEN	5.0	14	60	56	8.9	ND	-	-	-	-
03/31/94	21st CEN	2.3	ND	ND	ND	ND	ND	-	-	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
05/25/95	EMSL	1.0	ND	ND	ND	ND	ND	-	-	-	-
08/15/95	EMSL	1.3	ND	ND	ND	ND	2.6	-	-	-	-
11/21/95	EMSL	0.6	ND	ND	ND	ND	ND	-	-	-	-
02/20/96	EMSL	1.2	ND	ND	ND	ND	ND	-	-	-	-
06/13/96	FMETL	ND	ND	ND	ND	ND	1.8	-	-	-	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	-
04/11/97	FMETL	ND	ND	ND	ND	ND	2.3	-	-	-	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	9.0	3590	90	15600	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	4200	79	12600	V,S,P,M
06/19/98	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb

SOURCE: MW4

Sampling Dates:
12/10/91 - 09/24/98

NOTES:

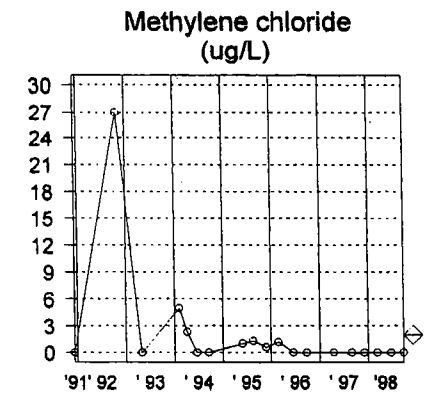
Page 1 of 2.

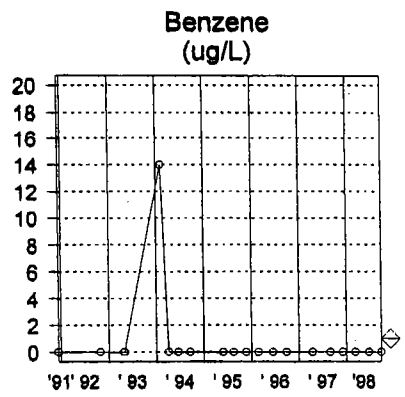
FORT MONMOUTH

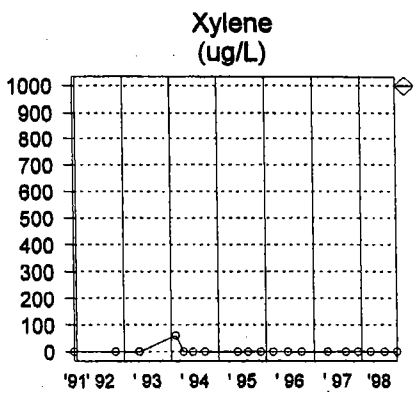
GW MONITORING
Bldg. 2567

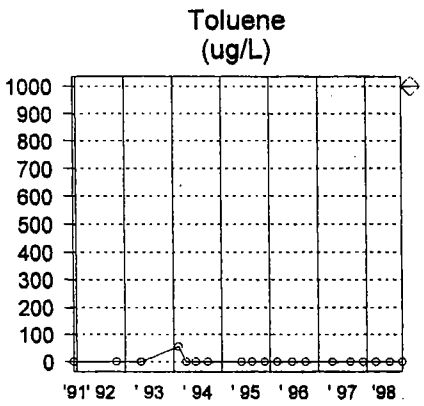
Well 4 of 5

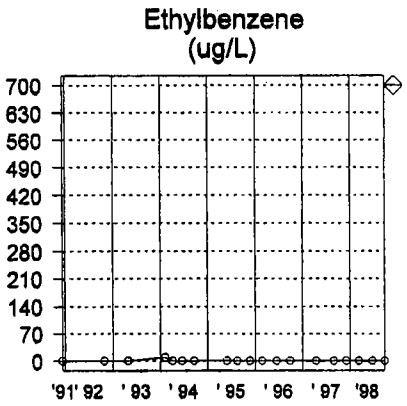
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

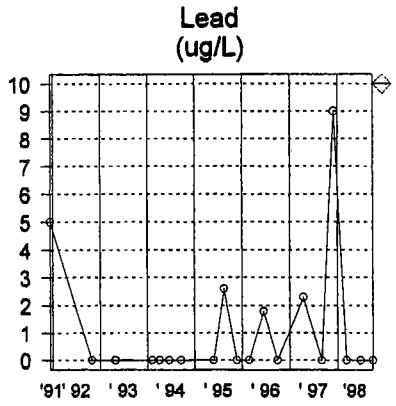


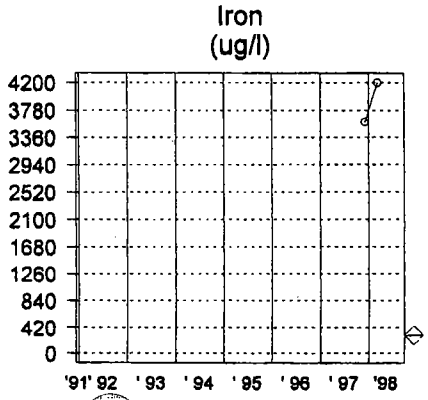


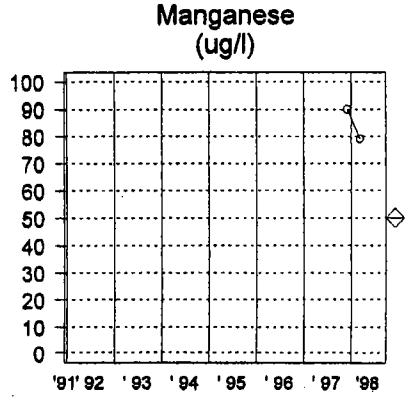


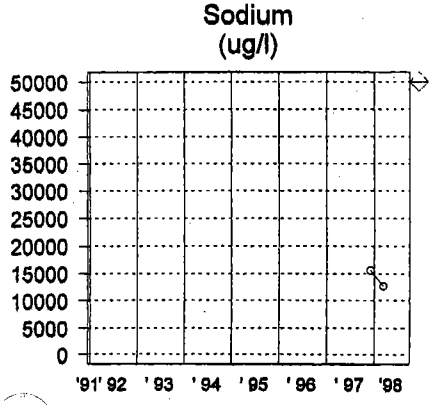












SOURCE: MW4

Sampling Dates:
12/10/91 - 09/24/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 4 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\2567\gw\256

	Lab	Depth to Water									Notes
Units:	-	Feet									-
NJDEP Criteria:	-	-									-
12/10/91	EMSL	-									-
10/26/92	ENV PRO	-									-
04/21/93	ENV PRO	-									-
04/28/93	21st CEN	-									BNA Only
02/03/94	21st CEN	-									-
03/31/94	21st CEN	-									-
06/14/94	21st CEN	-									-
09/15/94	21st CEN	-									-
05/25/95	EMSL	-									-
08/15/95	EMSL	-									-
11/21/95	EMSL	-									-
02/20/96	EMSL	-									-
06/13/96	FMETL	-									-
09/27/96	FMETL	-									-
04/11/97	FMETL	2.55									V,Pb
08/28/97	FMETL	3.20									V,Pb
12/02/97	FMETL	2.45									V,S,P,M
03/04/98	FMETL	2.11									V,S,P,M
06/19/98	FMETL	2.33									V,Pb
09/24/98	FMETL	3.55									V,Pb

SOURCE: MW4

Sampling Dates:
12/10/91 - 09/24/98

NOTES:

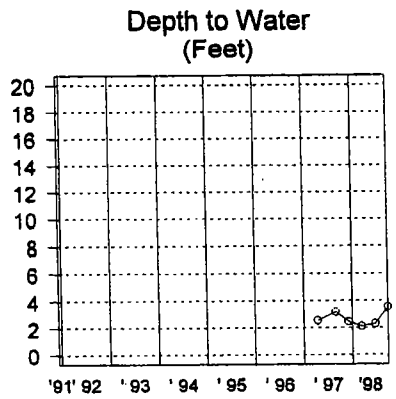
Page 2 of 2.

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 4 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: MW4

Sampling Dates:
12/10/91 - 09/24/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 4 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech48\fm\2567\gw\2567

	Lab	Methylene chloride	Lead	Iron	Manganese	Sodium	Depth to Water				Notes
Units:	-	ug/L	ug/L	ug/l	ug/l	ug/l	Feet				-
NJDEP Criteria:	-	2	10	300	50	50000	-				-
05/25/95	EMSL	1.2	4.0	-	-	-	-				-
08/15/95	EMSL	1.2	ND	-	-	-	-				-
11/21/95	EMSL	ND	ND	-	-	-	-				-
02/20/96	EMSL	0.8	ND	-	-	-	-				-
09/27/96	FMETL	ND	ND	-	-	-	-				-
04/11/97	FMETL	ND	2.7	-	-	-	7.20				V,Pb
08/28/97	FMETL	ND	ND	-	-	-	7.50				V,Pb
12/02/97	FMETL	ND	7.0	19200	100	10500	7.20				V,S,P,M
03/04/98	FMETL	ND	ND	16400	56	9100	7.30				V,S,P,M
06/01/98	FMETL	ND	ND	-	-	-	7.55				V,Pb
09/25/98	FMETL	ND	ND	-	-	-	7.59				V,Pb

SOURCE: MW5

Sampling Dates:
05/25/95 - 09/25/98

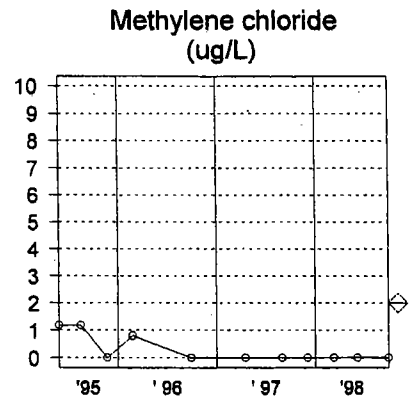
NOTES:

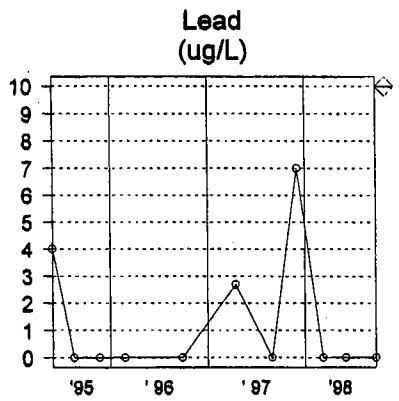
FORT MONMOUTH

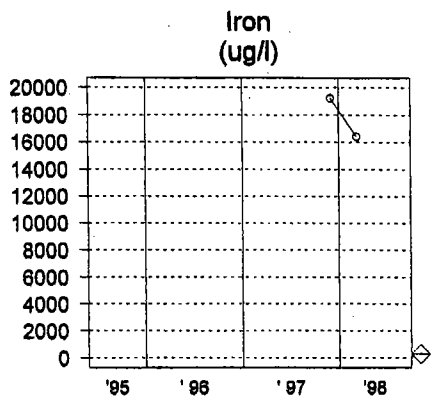
GW MONITORING
Bldg. 2567

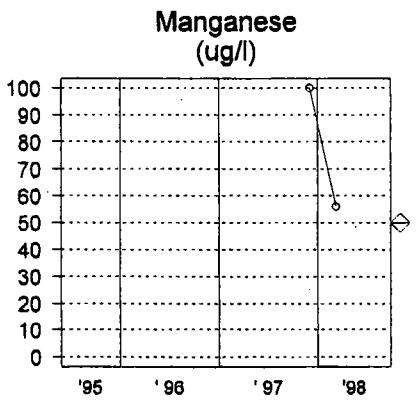
Well 5 of 5

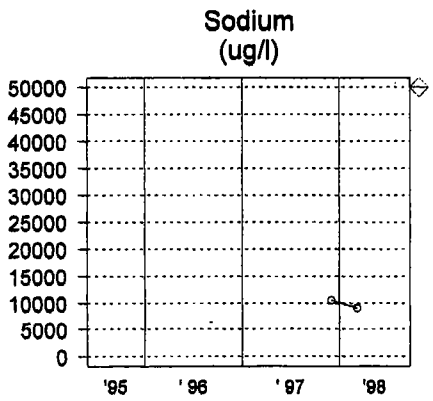
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

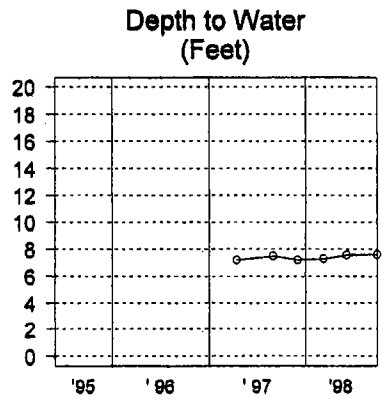












SOURCE: MW5

Sampling Dates:
05/25/95 - 09/25/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 5 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-1998 c:\mtech46\fm\2567\gw\2567.\

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4144.03	MW-01	29-26925	12/16/98
4144.04	MW-02	29-26926	12/16/98
4144.05	MW-03	29-26947	12/16/98
4144.06	MW-04	29-26948	12/16/98
4144.07	MW-05	29-31783	12/16/98

NJDEP Laboratory Certification # 13461

1/26/99
Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: 826223
(✓)DERA ( )OMA ( )Other:_____

Project No:
Location: 2567 mws 4th Qtr '98

Samplers Name / Company : Corey McCormack, TVS

Comments: HNO_3/HCL/4°C

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOCs	Pb						Hnu Read	Remarks / Preservation Method
4144. .01	Trip	12/16/98	0751	AQ	2	✓								
.02	Field Blank		1100		3	✓	✓							
.03	mw-01 *		1149		3	✓	✓						✓	5.7 ppm (2926925)
.04	mw-02		1125		3	✓	✓						✓	1.5 ppm (2926926)
.05	mw-03		1131		3	✓	✓						✓	9.8 ppm (2926947)
.06	mw-04		1114		3	✓	✓						✓	1.1 ppm (2926948)
.07	mw-05		1401		3	✓	✓						✓	2.1 ppm (2931783)
.08	Dupe		—		3	✓	✓							

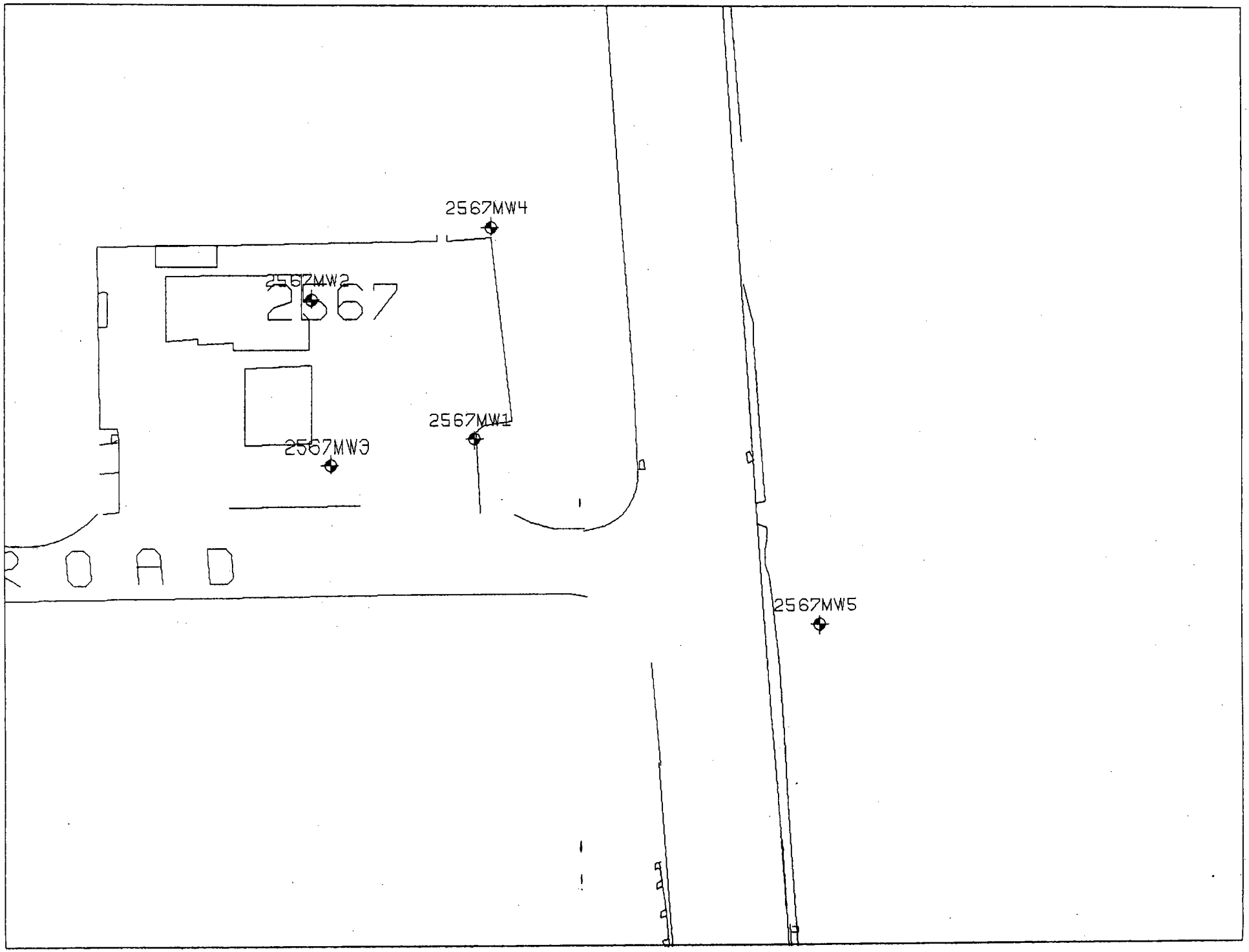
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	12/16/98 1450	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (_)Reduced, (✓)Standard, (_)Screen / non-certified
Turnaround time: (✓)Standard 4 wks, (_)Rush ____ Days, (_)ASAP Verbal ____ Hrs.

Remarks:
Tide: N/A

coc.XLS11/10/98

2567



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 01
NJDEP ID #: 2926925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/16/98
WEATHER: Overcast Cold
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 33.93ft
DEPTH TO WATER:4.90 ft
DEPTH OF WELL: 13.40 ft
HEIGHT OF WATER: 8.50 ft
8.50 X .65 X 3 = 16.58
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.22 gpm
Hnu READING: 5.70 ppm

PURGE START TIME: 10:34
pH: 7.18su TEMP: 14.3 °C
DISSOLVED O2: 8.87 ppm SPECIFIC CONDUCTIVITY: 40.7 us/cm

PURGE END TIME: 11:49
pH: 7.20su TEMP: 13.6 °C
DISSOLVED O2: 7.89 ppm SPECIFIC CONDUCTIVITY: 38.1 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 6.21ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17.00 gal

pH: 7.21su TEMP: 13.5 °C
DISSOLVED O2: 7.87 ppm SPECIFIC CONDUCTIVITY: 37.8 us/cm

COMMENTS: Odor. Dup Here

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 02
NJDEP ID #: 2926926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/16/98
WEATHER: Overcast Cold
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 32.56ft
DEPTH TO WATER:3.42 ft
DEPTH OF WELL: 12.20 ft
HEIGHT OF WATER: 8.78 ft
8.78 X .65 X 3 = 17.12
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.22 gpm
Hnu READING: 1.50 ppm

PURGE START TIME: 10:11
pH: 7.31su TEMP: 14.9 °C
DISSOLVED O2: 7.93 ppm SPECIFIC CONDUCTIVITY: 61.3 us/cm

PURGE END TIME: 11:25
pH: 7.35su TEMP: 14.3 °C
DISSOLVED O2: 6.75 ppm SPECIFIC CONDUCTIVITY: 58.7 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.95ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17.00 gal

pH: 7.37su TEMP: 14.2 °C
DISSOLVED O2: 6.72 ppm SPECIFIC CONDUCTIVITY: 58.8 us/cm

COMMENTS: Orange Tinge/Particles.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 03
NJDEP ID #: 2926947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/16/98
WEATHER: Overcast Cold
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 33.88ft
DEPTH TO WATER:4.25 ft
DEPTH OF WELL: 12.50 ft
HEIGHT OF WATER: 8.25 ft
8.25 X .65 X 3 = 16.09
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.22 gpm
Hnu READING: 9.80 ppm

PURGE START TIME: 10:21
pH: 7.63su TEMP: 14.4 °C
DISSOLVED O2: 8.59 ppm SPECIFIC CONDUCTIVITY: 51.4 us/cm

PURGE END TIME: 11:31
pH: 7.56su TEMP: 13.7 °C
DISSOLVED O2: 7.35 ppm SPECIFIC CONDUCTIVITY: 50.3 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 6.31ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16.00 gal

pH: 7.54su TEMP: 13.8 °C
DISSOLVED O2: 7.33 ppm SPECIFIC CONDUCTIVITY: 49.1 us/cm

COMMENTS: Odor, gas like. People pumping gas while sampling.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 04
NJDEP ID #: 2926948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/16/98
WEATHER: Overcast Cold
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 33.51ft
DEPTH TO WATER:3.11 ft
DEPTH OF WELL: 11.66 ft
HEIGHT OF WATER: 8.55 ft
8.55 X .65 X 3 = 16.67
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 1.10 ppm

PURGE START TIME: 10:00
pH: 6.89su TEMP: 14.7 °C
DISSOLVED O2: 8.53 ppm SPECIFIC CONDUCTIVITY: 22.7 us/cm

PURGE END TIME: 11:14
pH: 6.87su TEMP: 13.2 °C
DISSOLVED O2: 7.67 ppm SPECIFIC CONDUCTIVITY: 22.9 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.52ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17.00 gal

pH: 6.85su TEMP: 13.1 °C
DISSOLVED O2: 7.63 ppm SPECIFIC CONDUCTIVITY: 22.5 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 05
NJDEP ID #: 2926931783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/16/98
WEATHER: Overcast Cold
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 34.99ft
DEPTH TO WATER:7.34 ft
DEPTH OF WELL: 14.75 ft
HEIGHT OF WATER: 7.41 ft
7.41 X .65 X 3 = 14.45
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.22 gpm
Hnu READING: 2.10 ppm

PURGE START TIME: 13:00
pH: 5.56su TEMP: 14.7 °C
DISSOLVED O2: 9.21 ppm SPECIFIC CONDUCTIVITY: 47.3 us/cm

PURGE END TIME: 14:01
pH: 5.52su TEMP: 13.8 °C
DISSOLVED O2: 8.14 ppm SPECIFIC CONDUCTIVITY: 46.7 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.55ft
(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 14.00 gal

pH: 5.54su TEMP: 13.7 °C
DISSOLVED O2: 8.04 ppm SPECIFIC CONDUCTIVITY: 46.5 us/cm

COMMENTS:

CASE NARRATIVE

Site: Bldg. 2567

Lab ID: 4144

The duplicate analysis was performed on MW-01 (4144.03).

Methylene Chloride was found in the Field Blank at 3.21 ppb.

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb02437.d	Sample Name	Vblk76
Operator	Skelton	Field ID	Vblk76
Date Acquired	28 Dec 98 9:59 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Vblk76

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4144 SDG No _____ Location 2567

Matrix (soil/water) WATER Lab Sample ID: Vblk76

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02437.D

Level: (low/med) LOW Date Received: 12/16/98

% Moisture: not dec. _____ Date Analyzed: 12/28/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb02440.d	Sample Name	4144.01
Operator	Skelton	Field ID	Trip Blank
Date Acquired	28 Dec 98 12:56 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Trip Blank

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4144 SDG No _____ Location 2567

Matrix (soil/water) WATER Lab Sample ID: 4144.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02440.D

Level: (low/med) LOW Date Received: 12/16/98

% Moisture: not dec. _____ Date Analyzed: 12/28/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb02441.d	Sample Name	4144.02
Operator	Skelton	Field ID	Field Blank
Date Acquired	28 Dec 98 1:46 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	12.83	109765	3.21 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4144 SDG No _____ Location 2567

Matrix (soil/water) WATER Lab Sample ID: 4144.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02441.D

Level: (low/med) LOW Date Received: 12/16/98

% Moisture: not dec. _____ Date Analyzed: 12/28/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb02442.d	Sample Name	4144.03
Operator	Skelton	Field ID	MW01
Date Acquired	28 Dec 98 2:30 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	11.36	978098	143.26 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	13.44	402443	3.43 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW 01

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4144 SDG No _____ Location 2567

Matrix (soil/water) WATER Lab Sample ID: 4144.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02442.D

Level: (low/med) LOW Date Received: 12/16/98

% Moisture: not dec. _____ Date Analyzed: 12/28/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb02443.d	Sample Name	4144.04
Operator	Skelton	Field ID	MW02
Date Acquired	28 Dec 98 3:15 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW 02

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4144 SDG No _____ Location 2567

Matrix (soil/water) WATER Lab Sample ID: 4144.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02443.D

Level: (low/med) LOW Date Received: 12/16/98

% Moisture: not dec. _____ Date Analyzed: 12/28/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam **VB02444.D**
Operator **Skelton**
Date Acquired **28 Dec 98 4:00 pm**

Sample Name **4144.05**
Field ID **MW03**
Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	11.44	140654	19.38 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	13.42	2560760	20.54 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene	20.04	2532886	15.45 ug/L	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes	29.01	271613	3.67 ug/L	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW 03

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4144 SDG No _____ Location 2567

Matrix (soil/water) WATER Lab Sample ID: 4144.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02444.D

Level: (low/med) LOW Date Received: 12/10/98

% Moisture: not dec. _____ Date Analyzed: 12/28/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 9

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.51	25	J
2. 000079-29-8	Butane, 2,3-dimethyl-	12.04	12	JN
3. 000096-37-7	Cyclopentane, methyl-	16.68	88	JN
4. 000110-82-7	Cyclohexane	18.90	26	JN
5. 000098-82-8	Benzene, (1-methylethyl)-	30.99	24	JN
6. 000103-65-1	Benzene, propyl-	31.99	23	JN
7. 000526-73-8	Benzene, 1,2,3-trimethyl-	34.61	15	JN
8. 000496-11-7	Indane	35.44	51	JN
9. 027133-93-3	2,3-Dihydro-1-methylindene	36.77	5	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb02445.d	Sample Name	4144.06
Operator	Skelton	Field ID	MW04
Date Acquired	28 Dec 98 4:45 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW 04

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4144 SDG No _____ Location 2567

Matrix (soil/water) WATER Lab Sample ID: 4144.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02445.D

Level: (low/med) LOW Date Received: 12/16/98

% Moisture: not dec. _____ Date Analyzed: 12/28/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam **vb02446.d**
Operator **Skelton**
Date Acquired **28 Dec 98 5:30 pm**

Sample Name **4144.07**
Field ID **MW05**
Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW 05

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4144 SDG No _____ Location 2567

Matrix (soil/water) WATER Lab Sample ID: 4144.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02446.D

Level: (low/med) LOW Date Received: 12/16/98

% Moisture: not dec. _____ Date Analyzed: 12/28/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Nam	vb02447.d	Sample Name	4144.08
Operator	Skelton	Field ID	Dupe
Date Acquired	28 Dec 98 6:13 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	11.36	1098202	160.21 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	13.46	426263	3.62 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Dupe

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4144 SDG No _____ Location 2567

Matrix (soil/water) WATER Lab Sample ID: 4144.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02447.D

Level: (low/med) LOW Date Received: 12/16/98

% Moisture: not dec. _____ Date Analyzed: 12/28/98

GC Column: HP5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 12/29/98
Analysis Completed: 12/29/98

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4144.02-.08
Sample Received: 12/16/98
Analysis Start: 12/29/98
Analysis Completed: 12/29/98

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
4144.02	Field Blank	ND	10	0.8
4144.03	MW-01	ND	10	0.8
4144.04	MW-02	ND	10	0.8
4144.05	MW-03	ND	10	0.8
4144.06	MW-04	ND	10	0.8
4144.07	MW-05	ND	10	0.8
4144.08	Field Dup	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

	LAB	Methylene chloride	1,2-Dichloro ethane	Benzene	Xylene	Tert-butyl alcohol	Methyl tertiary butyl ether	Bromodi chloro methane	1,2-Dichloro propane	cis-1,3-Di chloro propene	Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Crtria:		2	2	1	1000	NA	NA	NA	1	NA	-
12/10/91	ND	240	55	2400	42	4400	2200	ND	ND	ND	-
10/26/92	ND	420	ND	2800	302	5400	1200	77	62	48	-
10/26/92D	ND	130	ND	3200	57	7000	1500	ND	ND	ND	-
04/21/93	ND	16	ND	520	ND	470	890	ND	ND	ND	-
04/28/93	ND	-	-	-	-	-	-	-	-	-	BNA Only
02/03/94	ND	26	ND	21	41	28	650	ND	ND	ND	-
03/31/94	ND	ND	ND	ND	ND	22	10	ND	ND	ND	-
06/14/94	ND	ND	ND	ND	ND	120	88	ND	ND	ND	-
09/15/94	ND	ND	ND	ND	ND	600	56	ND	ND	ND	-
05/25/95	ND	1.5	ND	ND	ND	930	110	ND	ND	ND	-
08/15/95	ND	1.3	ND	ND	ND	930	29	ND	ND	ND	-
11/21/95	ND	36	ND	ND	ND	860	80	ND	ND	ND	-
02/20/96	ND	2.1	ND	ND	ND	780	100	ND	ND	ND	-
06/13/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	ND	ND	ND	39.4	72.7	ND	240	ND	ND	ND	V,Pb
12/02/97	ND	ND	ND	ND	ND	357	20.3	ND	ND	ND	V,S,P,M
03/04/98	ND	ND	ND	ND	ND	560	37	ND	ND	ND	V,S,P,M
06/01/98	ND	ND	ND	ND	ND	95.63	24.23	ND	ND	ND	V.Pb
09/24/98	ND	ND	ND	ND	ND	283	10.02	ND	ND	ND	V,Pb
12/16/98	ND	ND	ND	ND	ND	143.26	3.43	ND	ND	ND	V,Pb

SOURCE: MW1

Sampling Dates:
12/10/91 - 12/16/98

NOTES:

VOC's & Pb analyzed for all sampling episodes unless noted.

Methylene Chloride detected in Trip / Field Blanks.
Page 1 of 4.

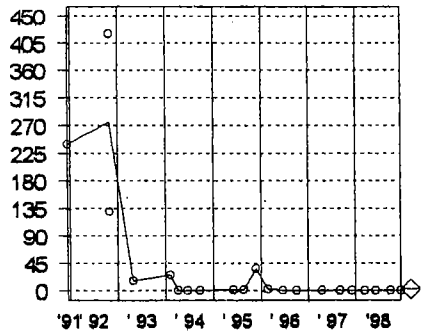
FORT MONMOUTH

GW MONITORING
BLDG. 2567
Table / Graph A

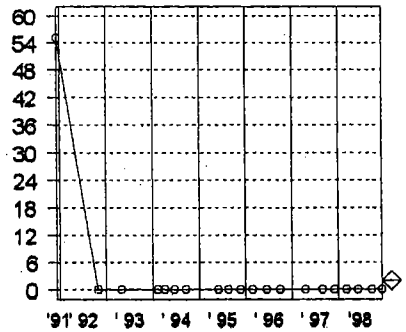
Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

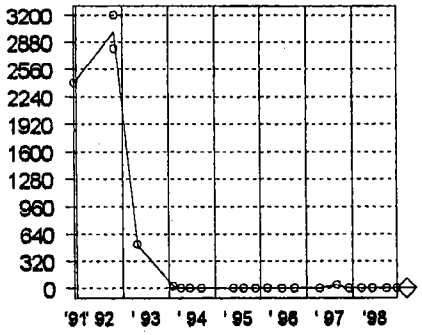
Methylene chloride
(ug/L)



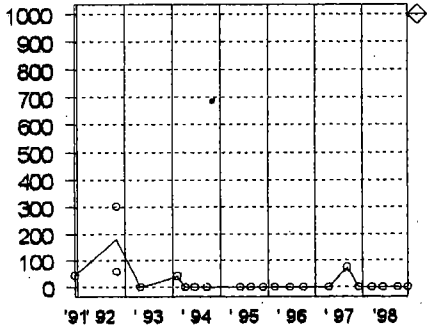
1,2-Dichloroethane
(ug/L)



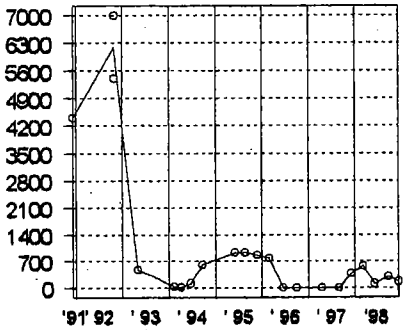
Benzene
(ug/L)



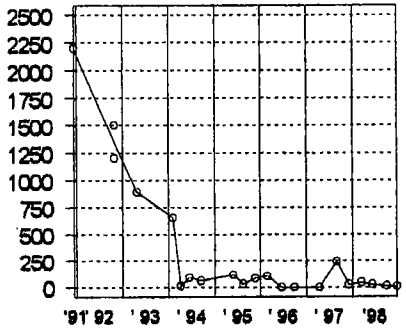
Xylene
(ug/L)



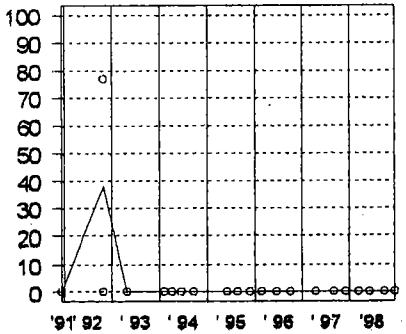
Tert-butyl alcohol
(ug/L)



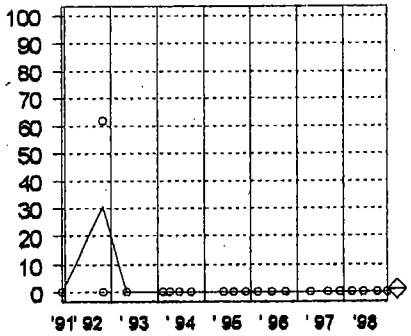
Methyl tertiary butyl ether
(ug/L)



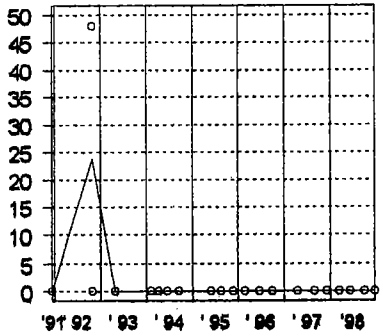
Bromodichloromethane
(ug/L)



1,2-Dichloropropane
(ug/L)



cis-1,3-Dichloropropene
(ug/L)



SOURCE: MW1

Sampling Dates:
12/10/91 - 12/16/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
BLDG. 2567
Table / Graph A

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

01-07-1999 c:\mtech46\fm\2567\gw\2567a.wsf

	LAB	Trichloro ethene	Dibromo chloro methane	1,1,2-Tri chloro ethane	trans-1,3-Dichloro propene	Bromoform	Tetra chloro ethene	1,1,2,2-Tetra chloro ethane	Toluene	Chloro benzene	Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Crtria:		1	10	3	NA	4	0.4	2	1000	4	-
12/10/91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/92	ND	32	130	140	220	140	51	170	73	99	-
10/26/92D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/21/93	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/28/93	ND	-	-	-	-	-	-	-	-	-	BNA Only
02/03/94	ND	ND	ND	ND	ND	ND	ND	ND	66	ND	-
03/31/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/15/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
05/25/95	ND	ND	ND	ND	ND	ND	ND	ND	0.7	ND	-
08/15/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
11/21/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
02/20/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/13/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	V,Pb
12/02/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V.Pb
09/24/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/16/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: MW1

Sampling Dates:
12/10/91 - 12/16/98

NOTES:

VOC's & Pb analyzed for all sampling episodes unless noted.

Methylene Chloride detected in Trip / Field Blanks.
Page 2 of 4.

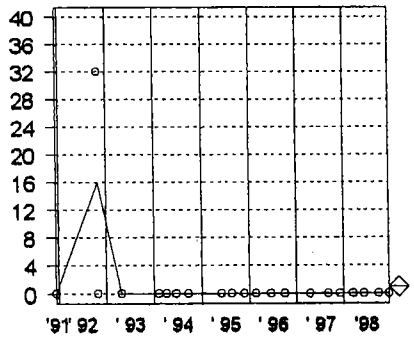
FORT MONMOUTH

GW MONITORING
BLDG. 2567
Table / Graph A

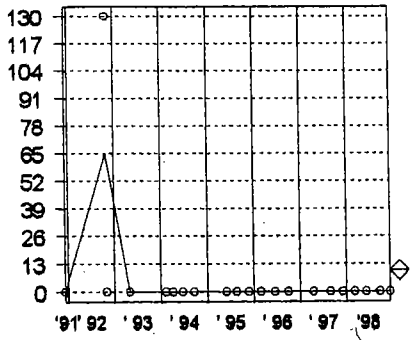
Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

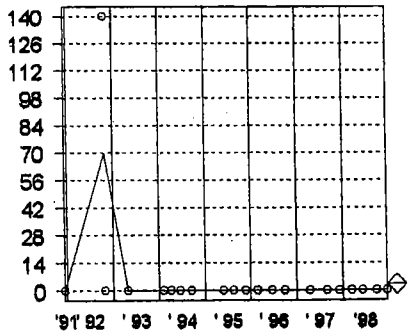
Trichloroethene
(ug/L)



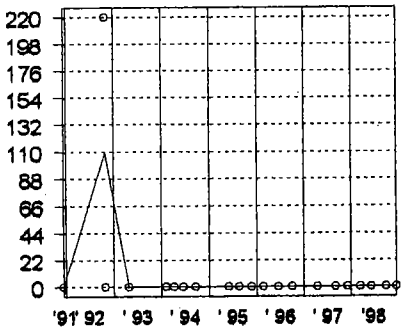
Dibromochloromethane
(ug/L)



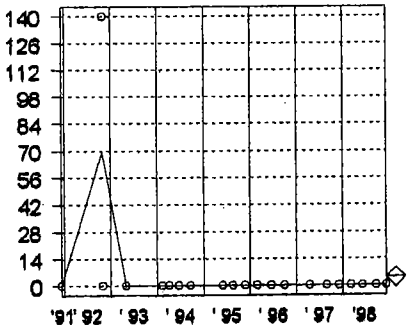
1,1,2-Trichloroethane
(ug/L)



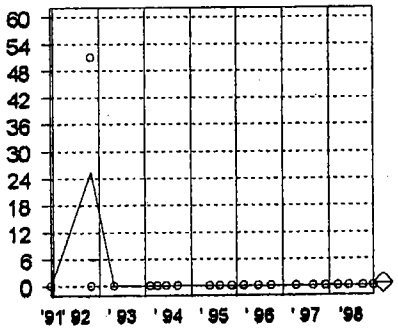
trans-1,3-Dichloropropene
(ug/L)



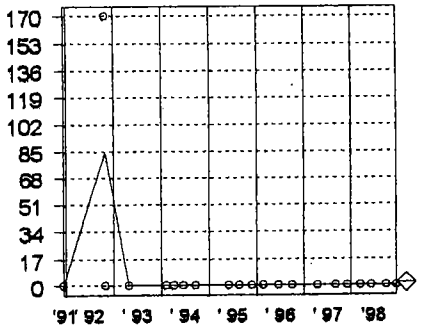
Bromoform
(ug/L)



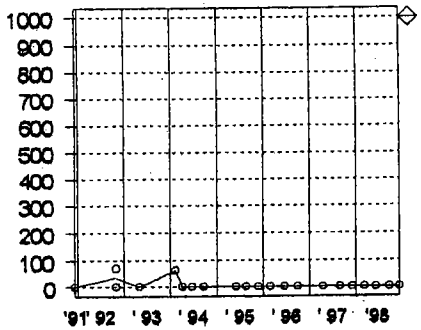
Tetrachloroethene
(ug/L)



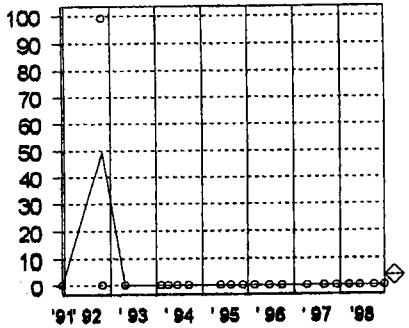
1,1,2,2-Tetrachloroethane
(ug/L)



Toluene
(ug/L)



Chlorobenzene
(ug/L)



SOURCE: MW1

Sampling Dates:
12/10/91 - 12/16/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
BLDG. 2567
Table / Graph A

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

01-07-1999 c:\mtech46\fm\2567\gw\2567a.wsf

	LAB	Ethyl benzene	Styrene	1,3-Di-chloro benzene	1,2-Di-chloro benzene	1,4-Di-chloro benzene	Acetone	Lead	Iron	Manganese	NOTES
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l	ug/l	
NJDEP Crtria:		700	100	600	600	75	700	10	300	50	
12/10/91	ND	ND	ND	ND	ND	ND	ND	4	-	-	ND
10/26/92	ND	90	84	100	120	120	ND	ND	-	-	ND
10/26/92D	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
04/21/93	ND	ND	ND	ND	ND	ND	ND	70	-	-	ND
04/28/93	ND	-	-	-	-	-	-	-	-	-	ND
02/03/94	ND	16	ND	ND	ND	ND	54	ND	-	-	ND
03/31/94	ND	ND	ND	ND	ND	ND	6.9	ND	-	-	ND
06/14/94	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
09/15/94	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
05/25/95	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
08/15/95	ND	ND	ND	ND	ND	ND	ND	3.3	-	-	ND
11/21/95	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
02/20/96	ND	ND	ND	ND	ND	ND	ND	4	-	-	ND
06/13/96	ND	ND	ND	ND	ND	ND	ND	1.2	-	-	ND
09/27/96	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
04/11/97	4	ND	ND	ND	ND	ND	ND	2.5	-	-	ND
08/28/97	ND	ND	ND	ND	ND	ND	ND	1.4	-	-	ND
12/02/97	ND	ND	ND	ND	ND	ND	ND	7.0	4110	93	ND
03/04/98	ND	ND	ND	ND	ND	ND	ND	ND	5800	108	ND
06/01/98	ND	ND	ND	ND	ND	ND	ND	0.5	-	-	ND
09/24/98	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
12/16/98	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND

SOURCE: MW1

Sampling Dates:
12/10/91 - 12/16/98

NOTES:

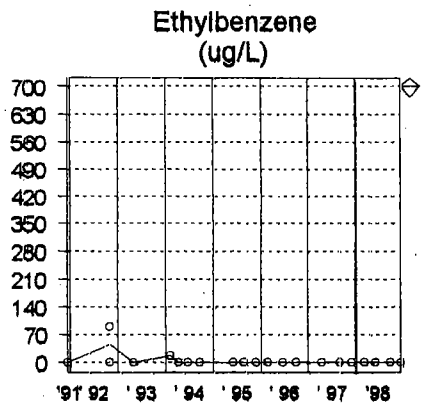
VOCs & Pb analyzed for all sampling episodes unless noted.
Page 3 of 4.

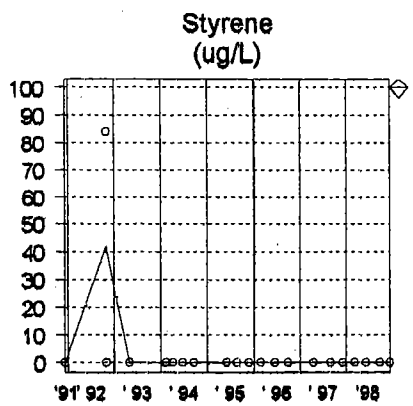
FORT MONMOUTH

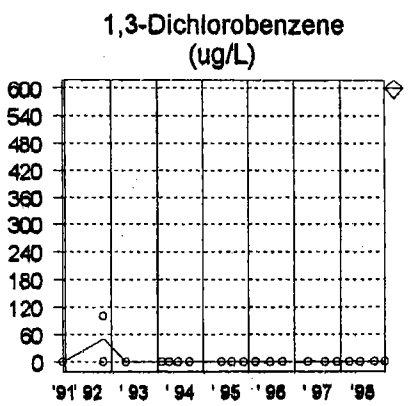
GW MONITORING
Bldg. 2567
Table / Graph C

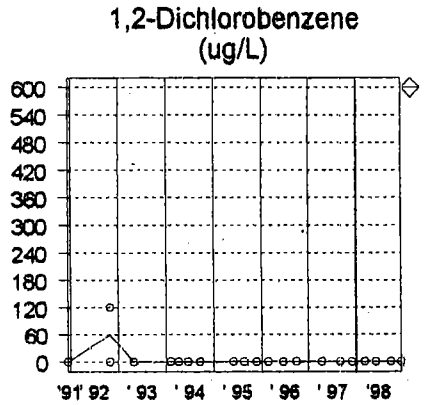
Well 1 of 5

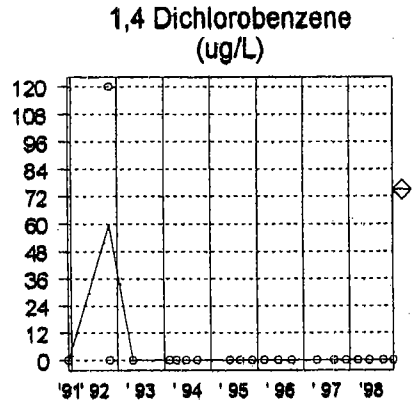
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

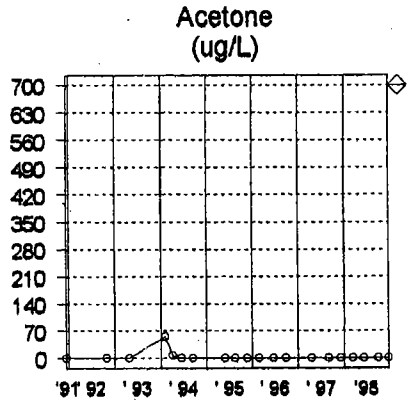


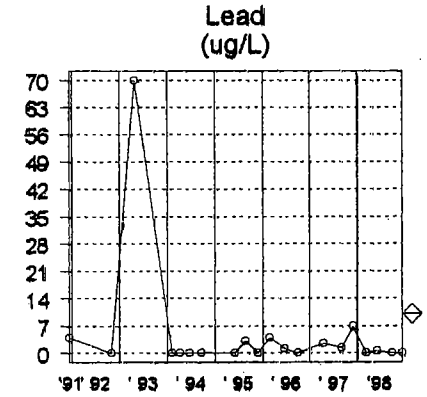


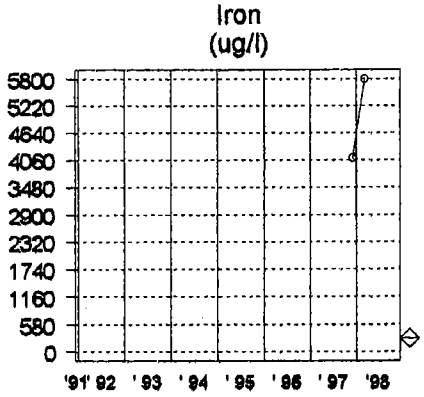


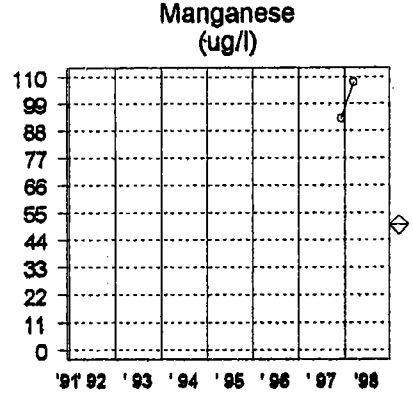












SOURCE: MW1

Sampling Dates:
12/10/91 - 12/16/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph C

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

01-07-1999 c:\mtech46\fm\2567\gw\2567c.waf

	LAB	Sodium	Depth to Water								NOTES
Units:	-	ug/l	Feet								-
NJDEP Criteria:	-	50000	-								-
12/10/91	ENV PRO	-	-								-
10/26/92	ENV PRO	-	-								-
10/26/92D	ENV PRO	-	-								-
04/21/93	21st CEN	-	-								-
04/28/93	21st CEN	-	-								BNA Only
02/03/94	21st CEN	-	-								-
03/31/94	21st CEN	-	-								-
06/14/94	21st CEN	-	-								-
09/15/94	21st CEN	-	-								-
05/25/95	EMSL	-	-								-
08/15/95	EMSL	-	-								-
11/21/95	EMSL	-	-								-
02/20/96	EMSL	-	-								-
06/13/96	FMETL	-	-								-
09/27/96	FMETL	-	-								-
04/11/97	FMETL	-	3.80								V,Pb
08/28/97	FMETL	-	4.80								V,Pb
12/02/97	FMETL	76000	3.90								V,S,P,M
03/04/98	FMETL	48900	3.51								V,S,P,M
06/01/98	FMETL	-	4.06								V.Pb
09/24/98	FMETL	-	5.21								V,Pb
12/16/98	FMETL	-	4.90								V,Pb

SOURCE: MW1

Sampling Dates:
12/10/91 - 12/16/98

NOTES:

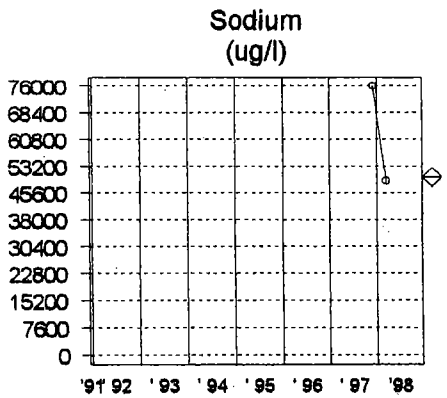
Page 4 of 4.

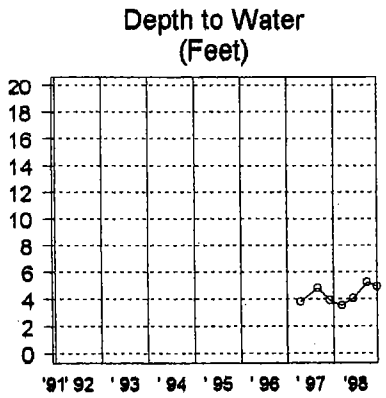
FORT MONMOUTH

GW MONITORING
M-8 Bldg 697

Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: MW1

Sampling Dates:
12/10/91 - 12/16/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
M-8 Bldg 697

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

01-07-1999 c:\mtech46\fm\2567\gw\2567e.wsf

	LAB	Methylene chloride	Benzene	Xylene	Methyl tertiary butyl ether	Toluene	Ethyl benzene	Acetone	Butyl benzyl phthalate	Carbon Disulfide	Notes
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Crtria:		2	1	1000	NA	1000	700	700	100	NA	-
12/10/91	ND	7	3	ND	ND	ND	ND	ND	ND	ND	-
10/26/92	ND	23	ND	3	ND	ND	ND	ND	ND	ND	-
04/21/93	ND	ND	ND	2.0	ND	ND	ND	2.5	ND	ND	-
04/28/93	-	-	-	-	-	-	-	-	18	-	BNA Only
02/03/94	ND	4.0	19	43	7.0	55	7.4	ND	ND	3.1	-
03/31/94	ND	17	ND	2.5	11	ND	ND	140	ND	ND	-
06/14/94	ND	ND	ND	3.0	11	ND	1.1	ND	ND	ND	-
09/15/94	ND	ND	ND	5.5	4.1	1.8	1.2	ND	ND	ND	-
05/25/95	ND	0.9	ND	6.5	3.1	ND	0.8	ND	ND	ND	-
08/15/95	ND	1.3	ND	5.3	2.5	ND	ND	ND	ND	ND	-
11/21/95	ND	0.6	ND	3.6	1.6	ND	ND	ND	ND	ND	-
02/20/96	ND	2.0	ND	4.2	2	ND	ND	ND	ND	ND	-
06/13/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/02/97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
09/24/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/09/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: MW2

Sampling Dates:
12/10/91 - 12/09/98

NOTES:

VOC's & Pb analyzed for all sampling episodes unless noted.

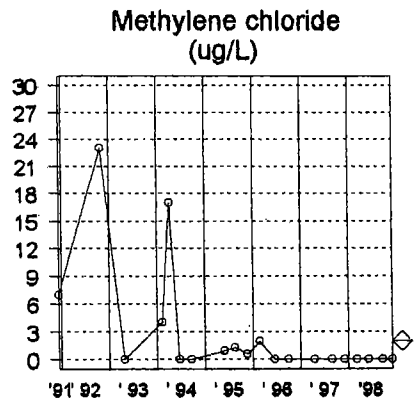
Methylene Chloride detected in Trip / Field Blanks.

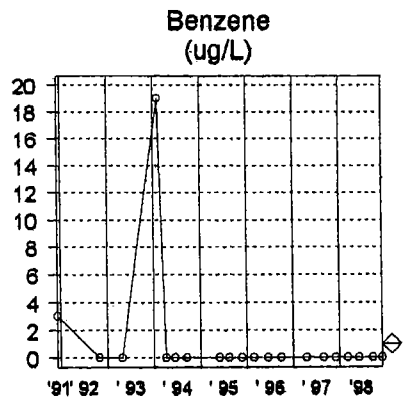
FORT MONMOUTH

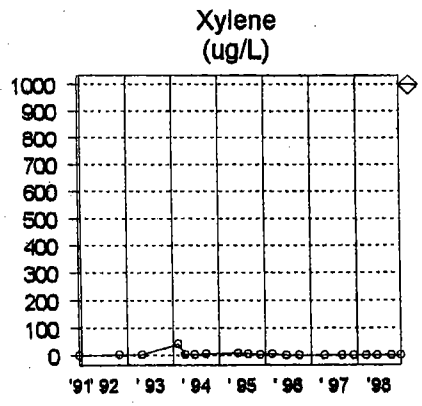
GW MONITORING
BLDG. 2567
Table / Graph A

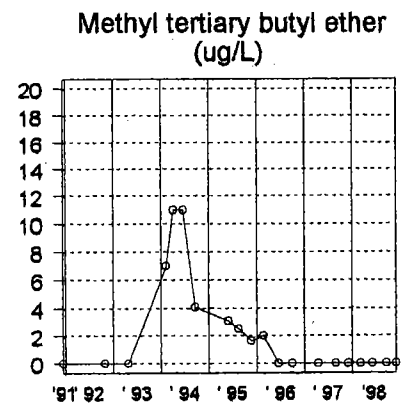
Well 2 of 5

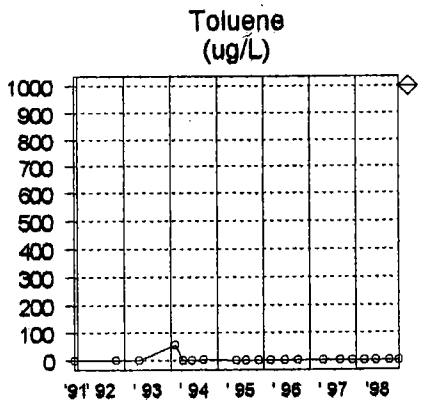
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

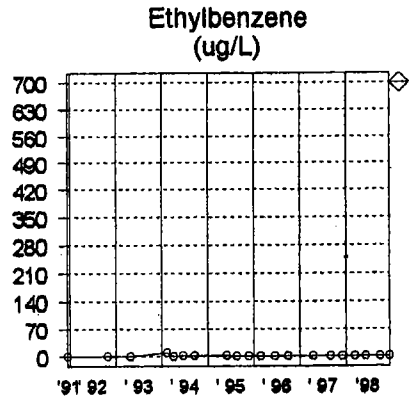


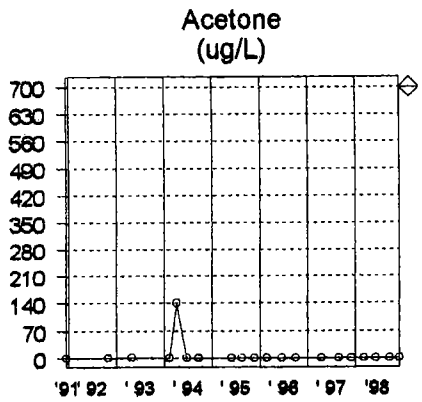


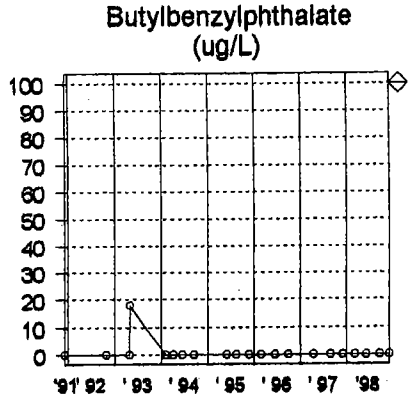


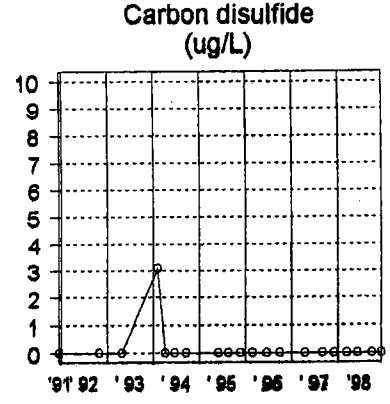












SOURCE: MW2

Sampling Dates:
12/10/91 - 12/09/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
BLDG. 2567
Table / Graph A

Well 2 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

01-07-1999 c:\mtech48\fm\2567\gw\2567a.wsf

	LAB	Naphthalene	Lead	Iron	Manganese	Sodium	Depth to Water				Notes
Units:		ug/L	ug/L	ug/l	ug/l	ug/l	Feet				-
NJDEP Crtria:		300	10	300	50	50000	-				-
12/10/91	ND	ND	ND	-	-	-	-				-
10/26/92	ND	ND	11	-	-	-	-				-
04/21/93	ND	ND	ND	-	-	-	-				-
04/28/93	-	ND	ND	-	-	-	-				BNA Only
02/03/94	ND	ND	260	-	-	-	-				-
03/31/94	ND	ND	ND	-	-	-	-				-
06/14/94	ND	ND	ND	-	-	-	-				-
09/15/94	ND	ND	ND	-	-	-	-				-
05/25/95	ND	11	ND	-	-	-	-				-
08/15/95	ND	11	5.6	-	-	-	-				-
11/21/95	ND	7.3	ND	-	-	-	-				-
02/20/96	ND	7.2	ND	-	-	-	-				-
06/13/96	ND	ND	ND	-	-	-	-				-
09/27/96	ND	ND	1.2	-	-	-	-				-
04/11/97	ND	ND	10.7	-	-	-	3.40				V,Pb
08/28/97	ND	ND	ND	-	-	-	4.30				V,Pb
12/02/97	ND	4.79	20	16300	272	58700	3.45				V,S,P,M
03/04/98	ND	1.67	8.0	12400	100	26600	2.92				V,S,P,M
06/01/98	ND	-	1.4	-	-	-	3.59				V,Pb
09/24/98	ND	-	ND	-	-	-	4.73				V,Pb
12/09/98	ND	-	ND	-	-	-	3.42				V,Pb

SOURCE: MW2

Sampling Dates:
12/10/91 - 12/09/98

NOTES:

VOC's & Pb analyzed for all sampling episodes unless noted.

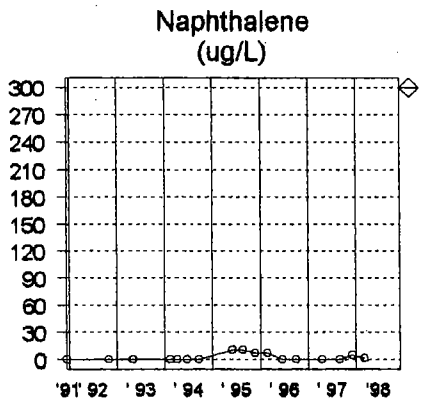
Methylene Chloride detected in Trip / Field Blanks.
Page 2 of 2.

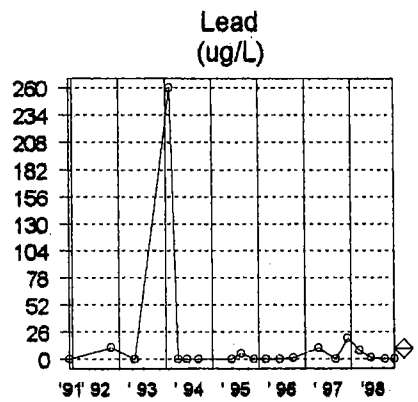
FORT MONMOUTH

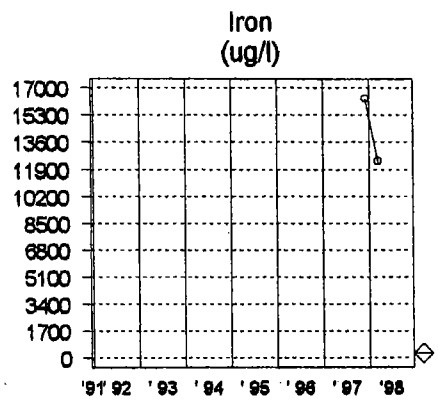
GW MONITORING
BLDG. 2567
Table / Graph A

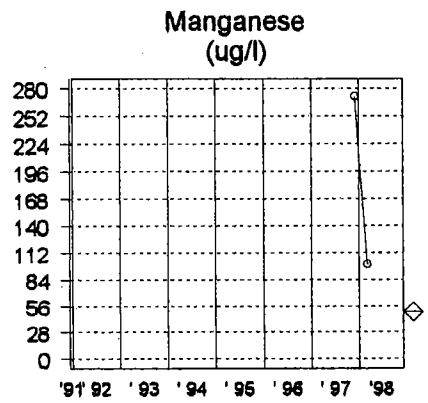
Well 2 of 5

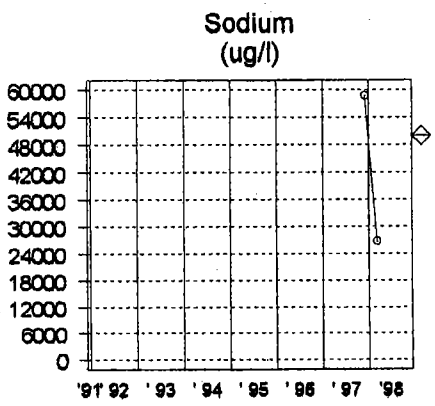
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

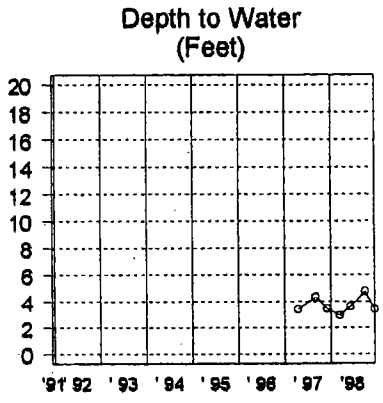












SOURCE: MW2

Sampling Dates:
12/10/91 - 12/09/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
BLDG. 2567
Table / Graph A

Well 2 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

01-07-1999 c:\mtech46\fm\2567\gw\2567a.wsf

	Lab	Methylene chloride	Benzene	Xylene	Tert-butyl alcohol	Methyl tertiary butyl ether	Toluene	Ethyl benzene	Butyl benzyl phthalate	Naphthalene	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	2	1	1000	NA	NA	1000	700	100	300	-
12/10/91	ENV PRO	240	110	200	ND	69	ND	ND	ND	ND	-
10/26/92	ENV PRO	24	ND	3	ND	ND	ND	ND	ND	ND	-
04/21/93	ENV PRO	ND	180	74.2	ND	27	15	ND	ND	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	12	1.2	BNA Only
02/03/94	21st CEN	4.4	19	65	ND	9.1	43	7.0	ND	ND	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/94	21st CEN	ND	15	3.4	ND	100	ND	5.4	ND	ND	-
09/15/94	21st CEN	ND	ND	1.4	ND	61	ND	ND	ND	ND	-
05/25/95	EMSL	21	94	190	ND	400	3.8	6.3	ND	ND	-
08/15/95	EMSL	25	89	360	ND	670	ND	8.4	ND	21	-
11/21/95	EMSL	18	35	91	46	360	ND	ND	ND	6.6	-
02/20/96	EMSL	ND	40	70	43	250	1	4.5	ND	5.4	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	25	ND	ND	940	62	ND	ND	ND	ND	V,Pb
12/02/97	FMETL	ND	4.31	ND	ND	188	ND	ND	ND	1.92	V,S,P,M
03/04/98	FMETL	ND	19	8.6	ND	102	ND	ND	ND	1.67	V,S,P,M
06/19/98	FMETL	ND	4.68	ND	27.52	81.82	ND	ND	ND	-	V,Pb
09/25/98	FMETL	ND	5.96	3.62	ND	27.27	ND	ND	ND	-	V,Pb
12/16/98	FMETL	ND	15.45	3.67	19.38	20.54	ND	ND	ND	-	V,Pb

SOURCE: MW3

Sampling Dates:
12/10/91 - 12/16/98

NOTES:

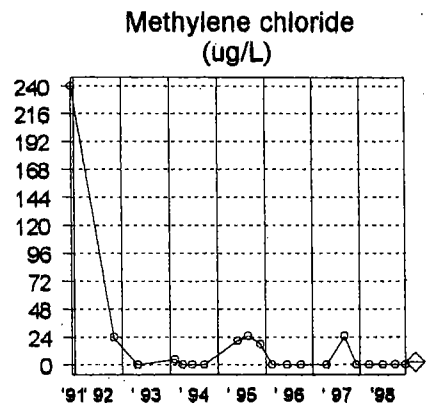
Page 1 of 2.

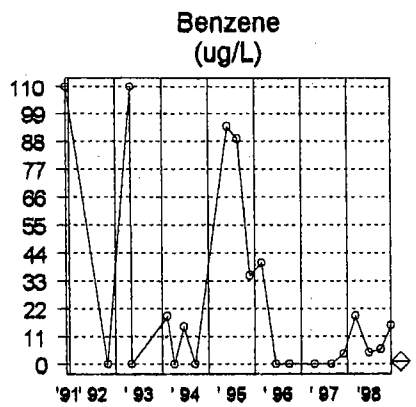
FORT MONMOUTH

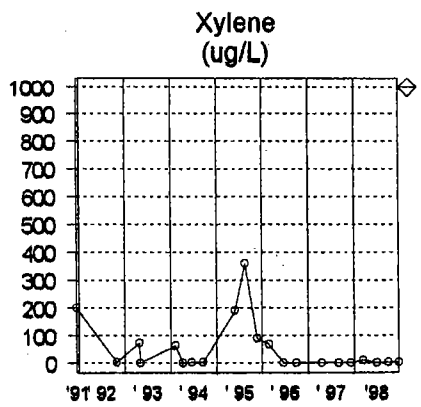
GW MONITORING
Bldg. 2567

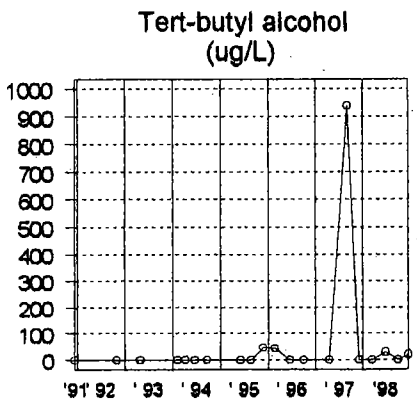
Well 3 of 5

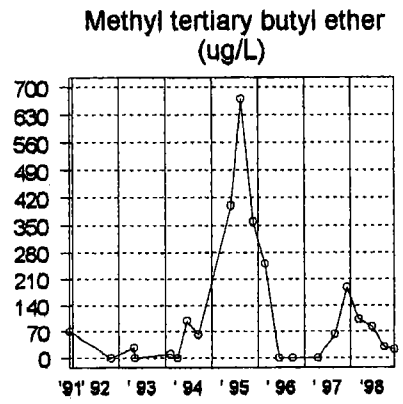
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

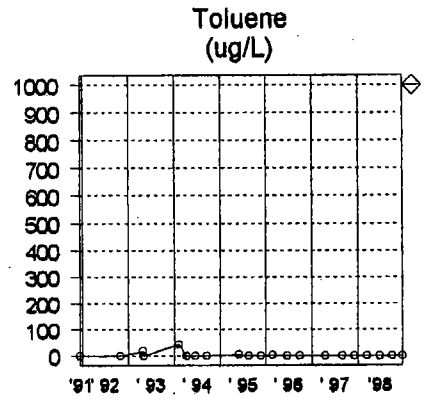


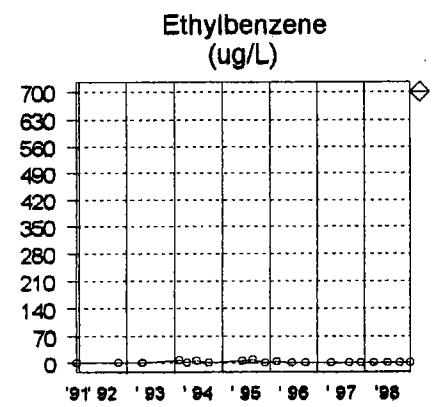


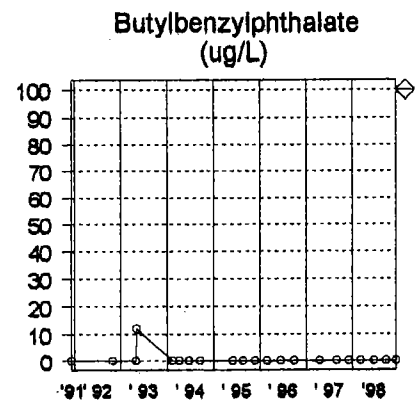


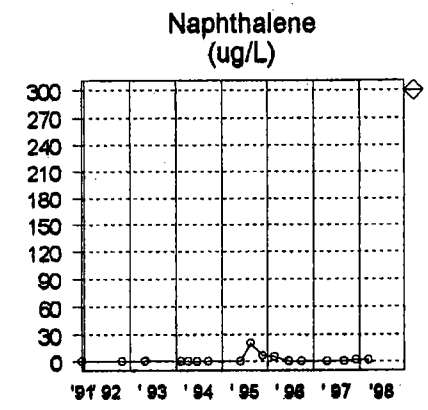












SOURCE: MW3

Sampling Dates:
12/10/91 - 12/16/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 3 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

01-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Lead	Iron	Manganese	Sodium	Depth to Water					Notes
Units:	-	ug/L	ug/l	ug/l	ug/l	Feet					-
NJDEP Criteria:	-	10	300	50	50000	-					-
12/10/91	ENV PRO	ND	-	-	-	-					-
10/26/92	ENV PRO	5	-	-	-	-					-
04/21/93	ENV PRO	60	-	-	-	-					-
04/28/93	21st CEN	ND	-	-	-	-					BNA Only
02/03/94	21st CEN	41	-	-	-	-					-
03/31/94	21st CEN	25	-	-	-	-					-
06/14/94	21st CEN	3	-	-	-	-					-
09/15/94	21st CEN	ND	-	-	-	-					-
05/25/95	EMSL	2.7	-	-	-	-					-
08/15/95	EMSL	ND	-	-	-	-					-
11/21/95	EMSL	ND	-	-	-	-					-
02/20/96	EMSL	6	-	-	-	-					-
06/13/96	FMETL	0.7	-	-	-	-					-
09/27/96	FMETL	6.2	-	-	-	-					-
04/11/97	FMETL	1.8	-	-	-	3.15					V,Pb
08/28/97	FMETL	ND	-	-	-	4.00					V,Pb
12/02/97	FMETL	10.0	5340	56.6	26900	3.10					V,S,P,M
03/04/98	FMETL	ND	13900	144	39600	2.48					V,S,P,M
06/19/98	FMETL	ND	-	-	-	3.99					V,Pb
09/25/98	FMETL	ND	-	-	-	4.56					V,Pb
12/16/98	FMETL	ND	-	-	-	4.25					V,Pb

SOURCE: MW3

Sampling Dates:
12/10/91 - 12/16/98

NOTES:

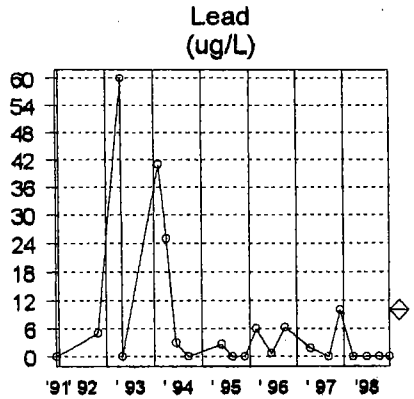
Page 2 of 2.

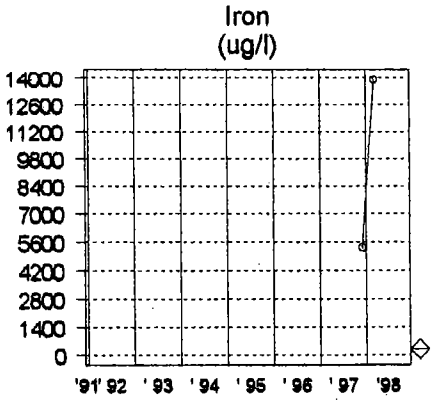
FORT MONMOUTH

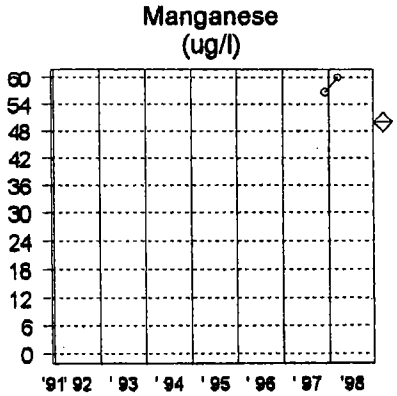
GW MONITORING
Bldg. 2567

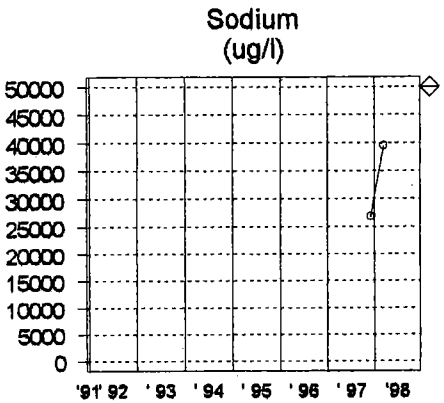
Well 3 of 5

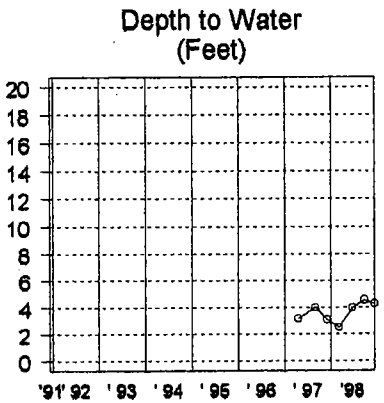
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV











SOURCE: MW3

Sampling Dates:
12/10/91 - 12/16/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 3 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

01-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

	LAB	Methylene chloride	Benzene	Xylene	Toluene	Lead	Iron	Manganese	Sodium	Depth to Water	NOTES
Units:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/l	ug/l	ug/l	Feet	
NJDEP Crtria:		2	1	1000	1000	10	300	50	50000	-	
12/10/91	ND	ND	ND	ND	ND	5	-	-	-	-	ND
10/26/92	ND	27	ND	ND	ND	ND	-	-	-	-	ND
04/21/93	ND	ND	ND	ND	ND	ND	-	-	-	-	ND
04/28/93	ND	ND	ND	ND	ND	ND	-	-	-	-	ND
02/03/94	ND	5.0	14	60	56	ND	-	-	-	-	ND
03/31/94	ND	2.3	ND	ND	ND	ND	-	-	-	-	ND
06/14/94	ND	ND	ND	ND	ND	ND	-	-	-	-	ND
09/15/94	ND	ND	ND	ND	ND	ND	-	-	-	-	ND
05/25/95	ND	1.0	ND	ND	ND	ND	-	-	-	-	ND
08/15/95	ND	1.3	ND	ND	ND	2.6	-	-	-	-	ND
11/21/95	ND	0.6	ND	ND	ND	ND	-	-	-	-	ND
02/20/96	ND	1.2	ND	ND	ND	ND	-	-	-	-	ND
06/13/96	ND	ND	ND	ND	ND	1.8	-	-	-	-	ND
09/27/96	ND	ND	ND	ND	ND	ND	-	-	-	-	ND
04/11/97	ND	ND	ND	ND	ND	2.3	-	-	-	2.55	ND
08/28/97	ND	ND	ND	ND	ND	ND	-	-	-	3.20	ND
12/02/97	ND	ND	ND	ND	ND	9.0	3590	90	15600	2.45	ND
03/04/98	ND	ND	ND	ND	ND	ND	4200	79	12600	2.11	ND
06/19/98	ND	ND	ND	ND	ND	ND	-	-	-	2.33	ND
09/24/98	ND	ND	ND	ND	ND	ND	-	-	-	3.55	ND
12/12/98	ND	ND	ND	ND	ND	ND	-	-	-	3.11	ND

SOURCE: MW4

Sampling Dates:
12/10/91 - 12/12/98

NOTES:

VOCs & Pb analyzed for all sampling episodes unless noted.

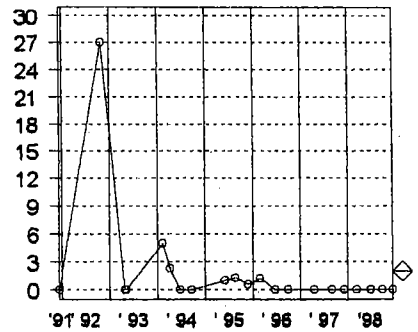
FORT MONMOUTH

GW MONITORING
BLDG. 2567
Table / Graph B

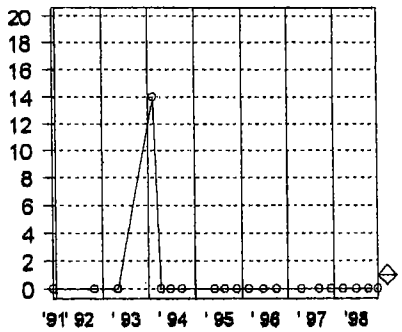
Well 4 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

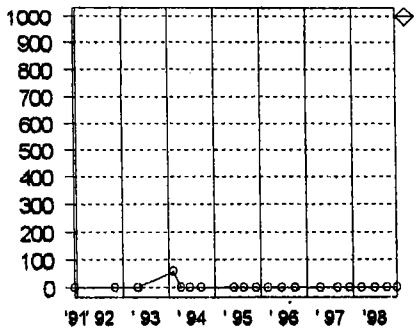
Methylene chloride
(ug/L)



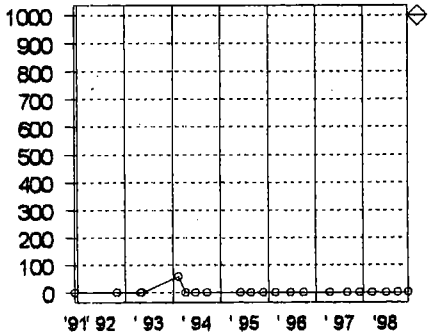
Benzene
(ug/L)



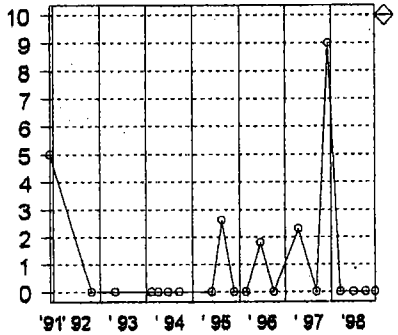
Xylene
(ug/L)



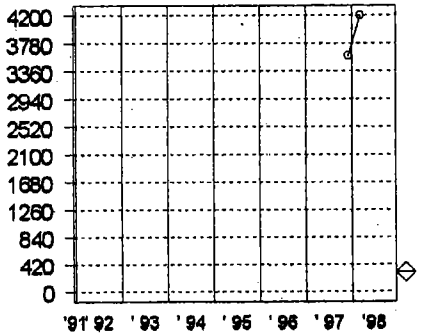
Toluene
(ug/L)



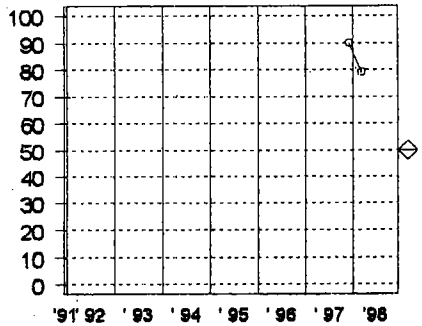
Lead
(ug/L)



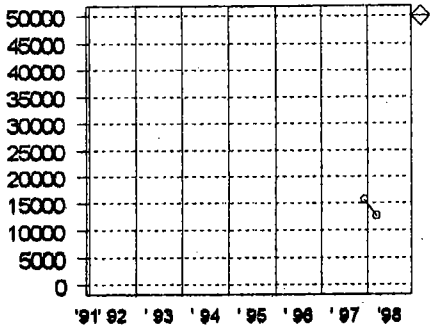
Iron
(ug/l)



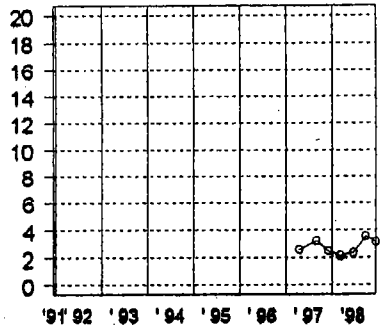
Manganese
(ug/l)



Sodium
(ug/l)



Depth to Water
(Feet)



SOURCE: MW4

Sampling Dates:
12/10/91 - 12/12/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
BLDG. 2567
Table / Graph B

Well 4 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

01-07-1999 c:\mtech46\fm\2567\gw\2567b.wsf

	Lab	Methylene chloride	Lead	Iron	Manganese	Sodium	Depth to Water				Notes
Units:	-	ug/L	ug/L	ug/l	ug/l	ug/l	Feet				-
NJDEP Criteria:	-	2	10	300	50	50000	-				-
05/25/95	EMSL	1.2	4.0	-	-	-	-				-
08/15/95	EMSL	1.2	ND	-	-	-	-				-
11/21/95	EMSL	ND	ND	-	-	-	-				-
02/20/96	EMSL	0.8	ND	-	-	-	-				-
09/27/96	FMETL	ND	ND	-	-	-	-				-
04/11/97	FMETL	ND	2.7	-	-	-	7.20				V,Pb
08/28/97	FMETL	ND	ND	-	-	-	7.50				V,Pb
12/02/97	FMETL	ND	7.0	19200	100	10500	7.20				V,S,P,M
03/04/98	FMETL	ND	ND	16400	56	9100	7.30				V,S,P,M
06/01/98	FMETL	ND	ND	-	-	-	7.55				V,Pb
09/25/98	FMETL	ND	ND	-	-	-	7.59				V,Pb
12/16/98	FMETL	ND	ND	-	-	-	7.34				V,Pb

SOURCE: MW5

Sampling Dates:
05/25/95 - 12/16/98

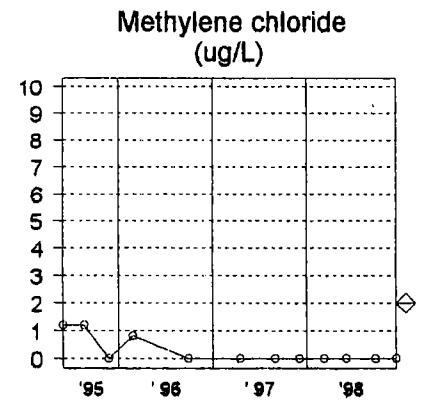
NOTES:

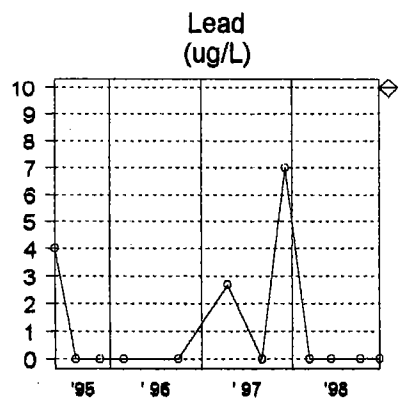
FORT MONMOUTH

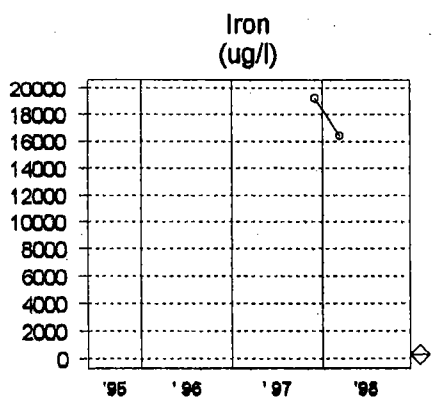
GW MONITORING
Bldg. 2567

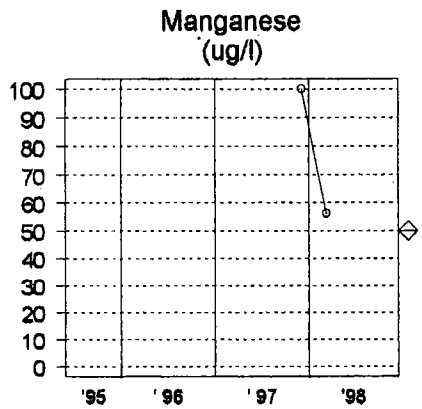
Well 5 of 5

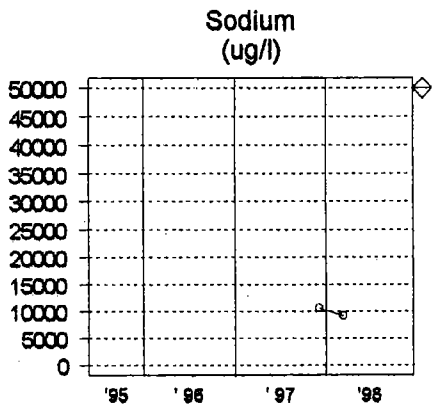
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

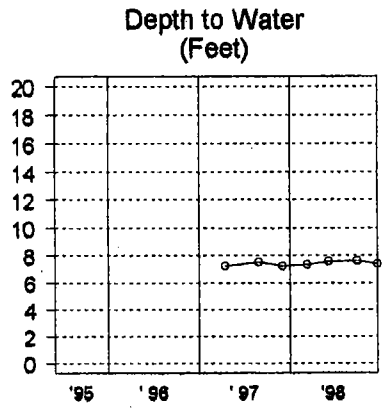












SOURCE: MW5

Sampling Dates:
05/25/95 - 12/16/98

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 5 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

01-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4296.03	2567MW01	29-26925	02/24/99
4296.04	2567MW02	29-26926	02/24/99
4296.05	2567MW03	29-26947	02/24/99
4296.06	2567MW04	29-26948	02/24/99
4296.07	2567MW05	29-31783	02/24/99

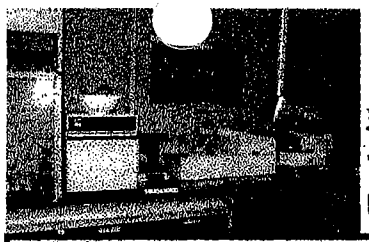
NJDEP Laboratory Certification # 13461

3-29-99
Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Joe Fallon
Phone #: X26223
(✓)DERA ( )OMA ( )Other:_____

Project No:
Location: 2567 MW's
1st Qtr '99

Samplers Name / Company: Corey McCormack, TVS

Analysis Parameters: VOTS, Pb, Haw Read

Comments: HCL / HNO_3 / 4°C

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOTS	Pb						Haw Read	Remarks / Preservation Method
2296 .01	Trip	2/24/99	0751	AQ	2	✓								
.02	Field Blank		0915		3	✓	✓							
.03	MW01		1028		3	✓	✓							0.7 ~~29-26926~~ 29-26925
.04	MW02		1034		3	✓	✓							0.9 29-26926
.05	MW03 *		1033		3	✓	✓							3.1 29-26947
.06	MW04		1018		3	✓	✓							0.4 29-26948
.07	MW05		0952		3	✓	✓							0.0 29-37783
.08	Dupe	↓	—	↓	3	✓	✓							

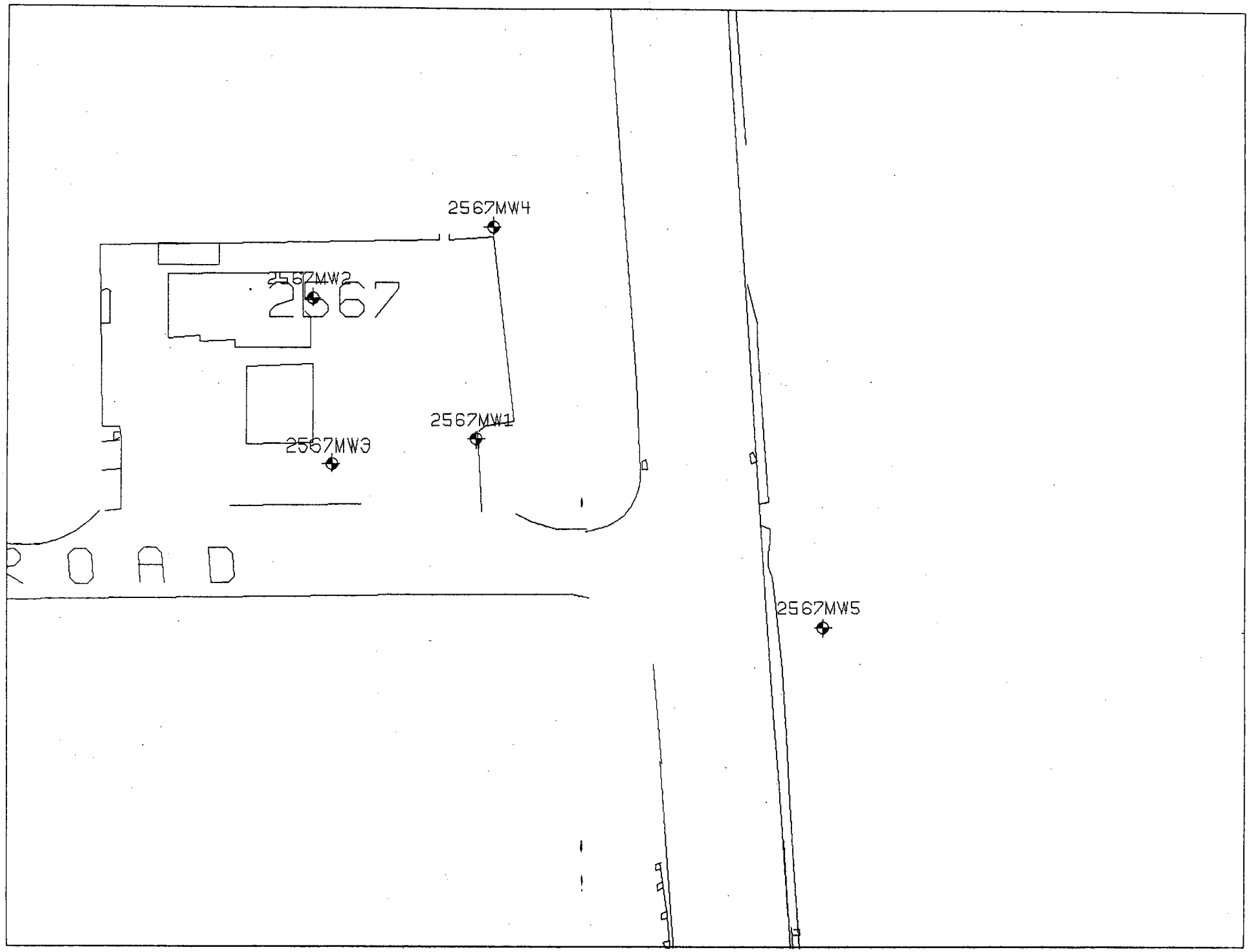
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	2/24/99 1300	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (_)Reduced, (✓)Standard, (_)Screen / non-certified
Turnaround time: (✓)Standard 4 wks, (_)Rush ____ Days, (_)ASAP Verbal ____ Hrs.

Remarks: Tide: N/A

coc2/8/99

256,



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/24/99
WEATHER: Cold, Clear.
TIDE: High –N/A

ELEV. OF CASING SURVEY MARK: 33.93 ft
DEPTH TO WATER: 3.75 ft
DEPTH OF WELL: 13.10 ft
HEIGHT OF WATER: 9.35 ft
(9.35) X .65 X 3 = 18.23
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 0.7 PPM

PURGE START TIME: 09:10
pH 6.94 su
DISSOLVED O_2 10.31 PPM
TEMP 8.7 °C
SPECIFIC CONDUCTIVITY 654 us/cm

PURGE END TIME: 10:28
pH 6.92 su
DISSOLVED O_2 3.87 PPM
TEMP 7.3 °C
SPECIFIC CONDUCTIVITY 655 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.44 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 18 gal

pH 6.91 su
DISSOLVED O_2 3.85 PPM
TEMP 7.2 °C
SPECIFIC CONDUCTIVITY 655 us/cm

COMMENTS: Cloudy surface sheen.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/24/99
WEATHER: Cold, Clear.
TIDE: High –N/A

ELEV. OF CASING SURVEY MARK: 35.26 ft
DEPTH TO WATER: 3.38/ ft
DEPTH OF WELL: 12.20 ft
HEIGHT OF WATER: 8.82 ft
(8.82) X .65 X 3 = 17.19
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 0.9 PPM

PURGE START TIME: 09:20
pH 6.69 su
DISSOLVED O_2 10.07 PPM
TEMP 9.5 °C
SPECIFIC CONDUCTIVITY 341 us/cm

PURGE END TIME: 10:34
pH 6.66 su
DISSOLVED O_2 3.27 PPM
TEMP 8.7 °C
SPECIFIC CONDUCTIVITY 340 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.65 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 17 gal

pH 6.64 su
DISSOLVED O_2 3.27 PPM
TEMP 8.5 °C
SPECIFIC CONDUCTIVITY 339 us/cm

COMMENTS: Orange tinge.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/24/99
WEATHER: Cold, Clear.
TIDE: High –N/A

ELEV. OF CASING SURVEY MARK: 33.88 ft
DEPTH TO WATER: 3.16/ ft
DEPTH OF WELL: 12.50 ft
HEIGHT OF WATER: 9.34 ft
(9.34) X .65 X 3 = 18.21
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 3.1 PPM

PURGE START TIME: 09:15
pH 6.91 su
DISSOLVED O_2 10.11 PPM
TEMP 8.8 °C
SPECIFIC CONDUCTIVITY 212 us/cm

PURGE END TIME: 10:33
pH 6.90 su
DISSOLVED O_2 3.41 PPM
TEMP 7.2 °C
SPECIFIC CONDUCTIVITY 213 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.84 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 18 gal

pH 6.89 su
DISSOLVED O_2 3.37 PPM
TEMP 7.1 °C
SPECIFIC CONDUCTIVITY 211 us/cm

COMMENTS: DUP Here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/24/99
WEATHER: Cold, Clear.
TIDE: High –N/A

ELEV. OF CASING SURVEY MARK: 33.51 ft
DEPTH TO WATER: 2.44 ft
DEPTH OF WELL: 11.66 ft
HEIGHT OF WATER: 9.22 ft
(9.22) X .65 X 3 = 17.97
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 0.4 PPM

PURGE START TIME: 09:00
pH 6.57 su
DISSOLVED O_2 10.29 PPM
TEMP 8.9 °C
SPECIFIC CONDUCTIVITY 160 us/cm

PURGE END TIME: 10:18
pH 6.54 su
DISSOLVED O_2 3.69 PPM
TEMP 7.6 °C
SPECIFIC CONDUCTIVITY 160 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 2.80 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 18 gal

pH 6.52 su
DISSOLVED O_2 3.64 PPM
TEMP 7.5 °C
SPECIFIC CONDUCTIVITY 161 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/24/99
WEATHER: Cold, Clear.
TIDE: High –N/A

ELEV. OF CASING SURVEY MARK: 34.99 ft
DEPTH TO WATER: 8.16 ft
DEPTH OF WELL: 14.75 ft
HEIGHT OF WATER: 6.59 ft
(6.59) X .65 X 3 = 12.85
GALLONS OF H2O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.22 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 08:50
pH 5.71 su
DISSOLVED O_2 10.21 PPM
TEMP 8.7 °C
SPECIFIC CONDUCTIVITY 763 us/cm

PURGE END TIME: 09:52
pH 3.54 su
DISSOLVED O_2 3.71 PPM
TEMP 7.3 °C
SPECIFIC CONDUCTIVITY 761 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 8.43 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 13 gal

pH 3.52 su
DISSOLVED O_2 3.68 PPM
TEMP 7.1 °C
SPECIFIC CONDUCTIVITY 762 us/cm

COMMENTS: Very low pH.

CASE NARRATIVE

Site: Bldg. 2567
Lab ID: 4296

The duplicate analysis was performed on 2567MW03 (Lab ID 4296.05).

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB02807.D	Sample Name	Vblk86
Operator	Skelton	Field ID	Vblk86
Date Acquired	26-Feb-99	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Vblk86

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4296 SDG No _____ Location 2567

Matrix: (soil/water) WATER Lab Sample ID: Vblk86

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02807.D

Level: (low/med) LOW Date Received: 2/24/99

% Moisture: not dec. _____ Date Analyzed: 2/26/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB02873.D	Sample Name	Vblk89
Operator	Skelton	Field ID	Vblk89
Date Acquired	9-Mar-99	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/17/99 10:14 AM

C:\HPCHEM\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Vblk89

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4296 SDG No _____ Location 2567

Matrix: (soil/water) WATER Lab Sample ID: Vblk89

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02873.D

Level: (low/med) LOW Date Received: 2/24/99

% Moisture: not dec. _____ Date Analyzed: 3/9/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB02817.D**	Sample Name	**4296.01**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**26-Feb-99**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Trip Blank

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4296 SDG No _____ Location 2567

Matrix: (soil/water) WATER Lab Sample ID: 4296.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02817.D

Level: (low/med) LOW Date Received: 2/24/99

% Moisture: not dec. _____ Date Analyzed: 2/26/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB02818.D	Sample Name	4296.02
Operator	Skelton	Field ID	Field Blank
Date Acquired	26-Feb-99	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/8/99 10:54 AM

C:\HPCHEM\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4296 SDG No _____ Location 2567

Matrix: (soil/water) WATER Lab Sample ID: 4296.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02818.D

Level: (low/med) LOW Date Received: 2/24/99

% Moisture: not dec. _____ Date Analyzed: 2/26/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB02819.D	Sample Name	4296.03
Operator	Skelton	Field ID	2567MW01
Date Acquired	26-Feb-99	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	11.11	1047819	601.87 ug/L	nle	8.52 ug/L	B
1634044	Methyl-tert-Butyl ether	13.21	502792	12.98 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

2567MW01

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4296 SDG No _____ Location 2567

Matrix: (soil/water) WATER Lab Sample ID: 4296.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02819.D

Level: (low/med) LOW Date Received: 2/24/99

% Moisture: not dec. _____ Date Analyzed: 2/26/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB02876.D	Sample Name	4296.03
Operator	Skelton	Field ID	2567MW01
Date Acquired	9-Mar-99	Sample Multiplier	5

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	9.25 ug/L	
107131	Acrylonitrile			not detected	50	13.90 ug/L	
75650	tert-Butyl alcohol	11.14	251070	674.65 ug/L	nle	42.60 ug/L	D
1634044	Methyl-tert-Butyl ether	13.22	216574	26.15 ug/L	nle	0.80 ug/L	D
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	8.40 ug/L	
74-87-3	Chloromethane			not detected	30	5.80 ug/L	
75-01-4	Vinyl Chloride			not detected	5	5.30 ug/L	
74-83-9	Bromomethane			not detected	10	5.50 ug/L	
75-00-3	Chloroethane			not detected	nle	5.05 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	2.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	1.20 ug/L	
67-64-1	Acetone			not detected	700	6.80 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	2.30 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.20 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.80 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.60 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	3.90 ug/L	
78-93-3	2-Butanone			not detected	300	3.10 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.85 ug/L	
67-66-3	Chloroform			not detected	6	1.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	1.15 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	2.35 ug/L	
71-43-2	Benzene			not detected	1	1.15 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.90 ug/L	
79-01-6	Trichloroethene			not detected	1	1.15 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	2.75 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	3.25 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	3.45 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	2.95 ug/L	
108-88-3	Toluene			not detected	1000	1.85 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	4.35 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	2.40 ug/L	
127-18-4	Tetrachloroethene			not detected	1	1.60 ug/L	
591-78-6	2-Hexanone			not detected	nle	3.55 ug/L	
126-48-1	Dibromochloromethane			not detected	10	4.30 ug/L	
108-90-7	Chlorobenzene			not detected	4	1.95 ug/L	
100-41-4	Ethylbenzene			not detected	700	3.25 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	5.70 ug/L	
1330-20-7	o-Xylene			not detected	nle	3.10 ug/L	
100-42-5	Styrene			not detected	100	2.80 ug/L	
75-25-2	Bromoform			not detected	4	3.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	2.35 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.75 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.85 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	3.20 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/17/99 10:14 AM

C:\HPCHEM\Custrpt\Volatile\624fy99.crt

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB02820.D	Sample Name	4296.04
Operator	Skelton	Field ID	2567MW02
Date Acquired	26-Feb-99	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

2567MW02

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4296 SDG No _____ Location 2567

Matrix: (soil/water) WATER Lab Sample ID: 4296.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02820.D

Level: (low/med) LOW Date Received: 2/24/99

% Moisture: not dec. _____ Date Analyzed: 2/26/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB02821.D	Sample Name	4296.05
Operator	Skelton	Field ID	2567MW03
Date Acquired	26-Feb-99	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	13.26	126693	3.30 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene	19.85	69174	1.03 ug/L	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/8/99 10:54 AM

C:\HPCHEM\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

2567MW03

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4296 SDG No _____ Location 2567

Matrix: (soil/water) WATER Lab Sample ID: 4296.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02821.D

Level: (low/med) LOW Date Received: 2/24/99

% Moisture: not dec. _____ Date Analyzed: 2/26/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB02822.D	Sample Name	4296.06
Operator	Skelton	Field ID	2567MW04
Date Acquired	27-Feb-99	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

2567MW04

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4296 SDG No _____ Location 2567

Matrix: (soil/water) WATER Lab Sample ID: 4296.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02822.D

Level: (low/med) LOW Date Received: 2/24/99

% Moisture: not dec. _____ Date Analyzed: 2/27/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB02823.D	Sample Name	4296.07
Operator	Skelton	Field ID	2567MW05
Date Acquired	27-Feb-99	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/8/99 10:54 AM

C:\HPCHEM\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

2567MW05

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4296 SDG No _____ Location 2567

Matrix: (soil/water) WATER Lab Sample ID: 4296.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02823.D

Level: (low/med) LOW Date Received: 2/24/99

% Moisture: not dec. _____ Date Analyzed: 2/27/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB02824.D	Sample Name	4296.08
Operator	Skelton	Field ID	Dupe
Date Acquired	27-Feb-99	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	13.24	146895	3.78 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene	19.86	77842	1.17 ug/L	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Dupe

Lab Name: FMETL Project LTM

NJDEP# 13461 Case No.: 4296 SDG No _____ Location 2567

Matrix: (soil/water) WATER Lab Sample ID: 4296.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02824.D

Level: (low/med) LOW Date Received: 2/24/99

% Moisture: not dec. _____ Date Analyzed: 2/27/99

GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 03/22/99
Analysis Completed: 03/22/99

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4296.02-.08
Sample Received: 02/24/99
Analysis Start: 03/22/99
Analysis Completed: 03/22/99

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
4296.02	Field Blank	ND	10	0.8
4296.03	2567MW-01	ND	10	0.8
4296.04	2567MW-02	ND	10	0.8
4296.05	2567MW-03	1.0	10	0.8
4296.06	2567MW-04	ND	10	0.8
4296.07	2567MW-05	1.0	10	0.8
4296.08	Field Dup	0.9	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

	Lab	Methylene chloride	1,2-Dichloro ethane	Benzene	Xylene	Tert-butyl alcohol	Methyl tertiary butyl ether	Bromodi chloro methane	1,2-Dichloro propane	cis-1,3-Di chloro propene	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	2	2	1	1000	NA	NA	NA	1	NA	-
12/10/91	ENV PRO	240	55	2400	42	4400	2200	ND	ND	ND	-
10/26/92	ENV PRO	420	ND	2800	302	5400	1200	77	62	48	-
10/26/92D	ENV PRO	130	ND	3200	57	7000	1500	ND	ND	ND	-
04/21/93	21st CEN	16	ND	520	ND	470	890	ND	ND	ND	-
04/28/93	21st CEN	-	-	-	-	-	-	-	-	-	BNA Only
02/03/94	21st CEN	26	ND	21	41	28	650	ND	ND	ND	-
03/31/94	21st CEN	ND	ND	ND	ND	22	10	ND	ND	ND	-
06/14/94	21st CEN	ND	ND	ND	ND	120	88	ND	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	ND	600	56	ND	ND	ND	-
05/25/95	EMSL	1.5	ND	ND	ND	930	110	ND	ND	ND	-
08/15/95	EMSL	1.3	ND	ND	ND	930	29	ND	ND	ND	-
11/21/95	EMSL	36	ND	ND	ND	860	80	ND	ND	ND	-
02/20/96	EMSL	2.1	ND	ND	ND	780	100	ND	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	ND	39.4	72.7	ND	240	ND	ND	ND	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	357	20.3	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	560	37	ND	ND	ND	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	95.63	24.23	ND	ND	ND	V.Pb
09/24/98	FMETL	ND	ND	ND	ND	283	10.02	ND	ND	ND	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	143.26	3.43	ND	ND	ND	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	675	26.15	ND	ND	ND	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 02/24/99

NOTES:

Page 1 of 4.

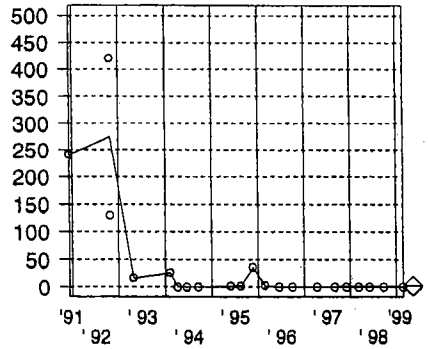
FORT MONMOUTH

GW MONITORING
Bldg. 2567

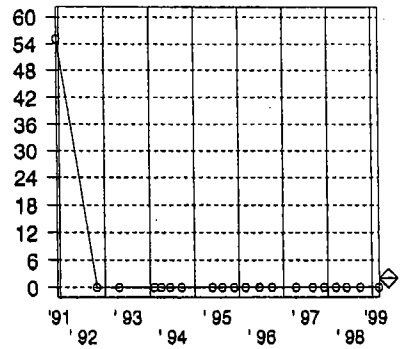
Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

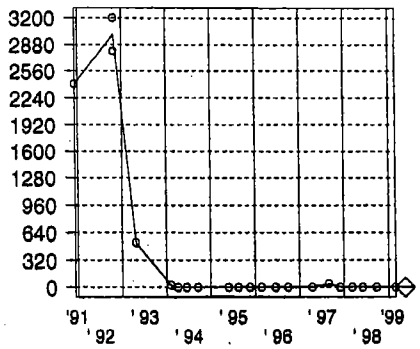
Methylene chloride
(ug/L)



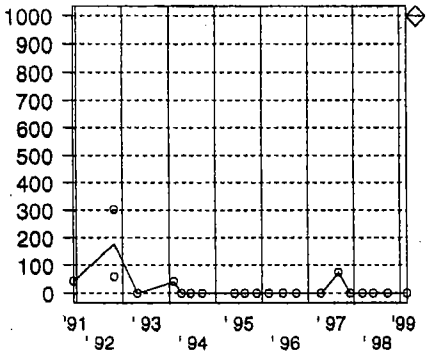
1,2-Dichloroethane
(ug/L)



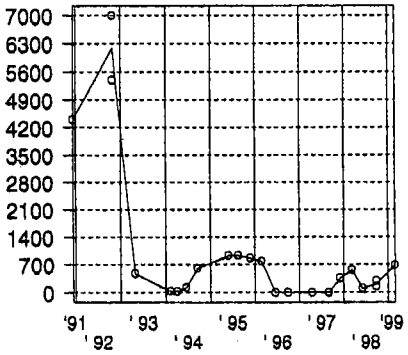
Benzene
(ug/L)



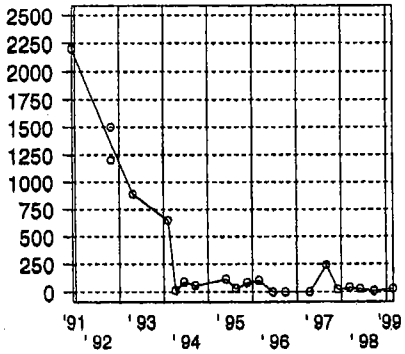
Xylene
(ug/L)



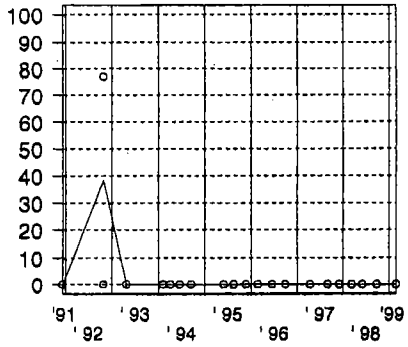
Tert-butyl alcohol
(ug/L)



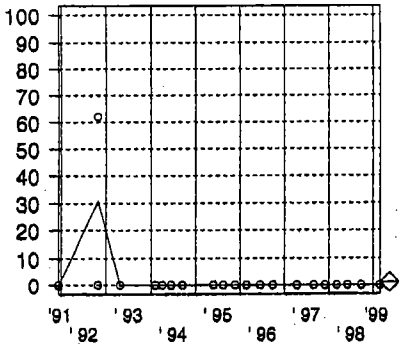
Methyl tertiary butyl ether
(ug/L)



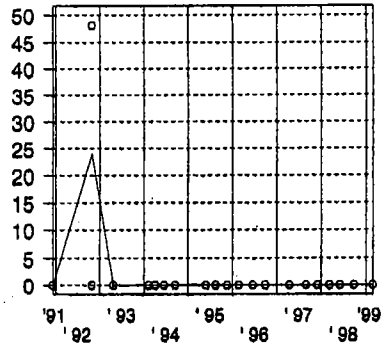
Bromodichloromethane
(ug/L)



1,2-Dichloropropane
(ug/L)



cis-1,3-Dichloropropene
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 02/24/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-29-1999 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Trichloro ethene	Dibromo chloro methane	1,1,2-Tri chloro ethane	trans-1,3-Dichloro propene	Bromoform	Tetra chloro ethene	1,1,2,2-Tetra chloro ethane	Toluene	Chloro benzene	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	1	10	3	NA	4	0.4	2	1000	4	-
12/10/91	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/92	ENV PRO	32	130	140	220	140	51	170	73	99	-
10/26/92D	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/21/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/28/93	21st CEN	-	-	-	-	-	-	-	-	-	BNA Only
02/03/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	66	ND	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
05/25/95	EMSL	ND	ND	ND	ND	ND	ND	ND	0.7	ND	-
08/15/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
11/21/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
02/20/96	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	ND	1.3	ND	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V.Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 02/24/99

NOTES:

Page 2 of 4.

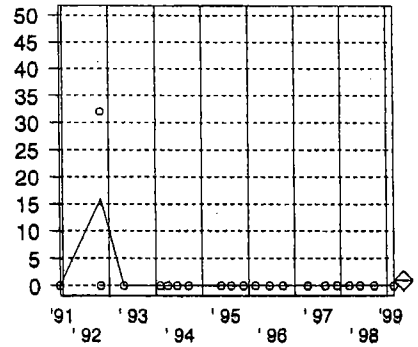
FORT MONMOUTH

GW MONITORING
Bldg. 2567

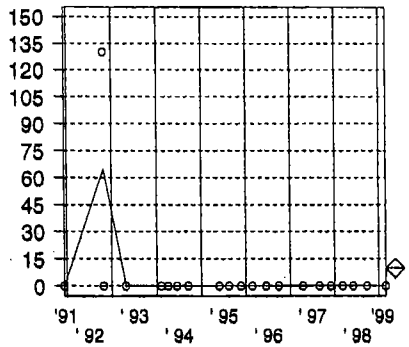
Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

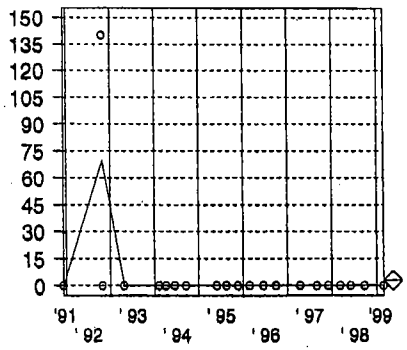
Trichloroethene
(ug/L)



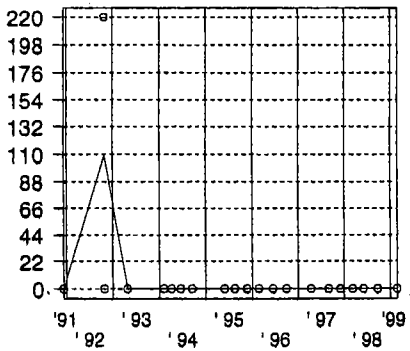
Dibromochloromethane
(ug/L)



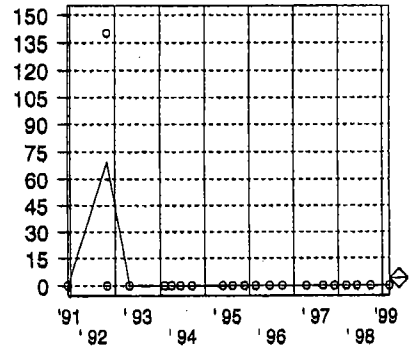
1,1,2-Trichloroethane
(ug/L)



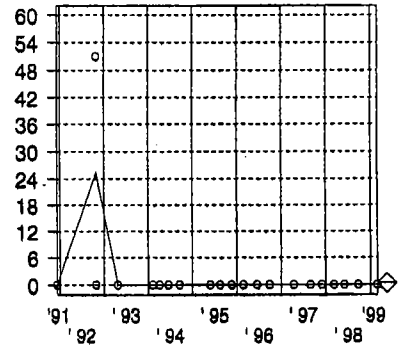
trans-1,3-Dichloropropene
(ug/L)



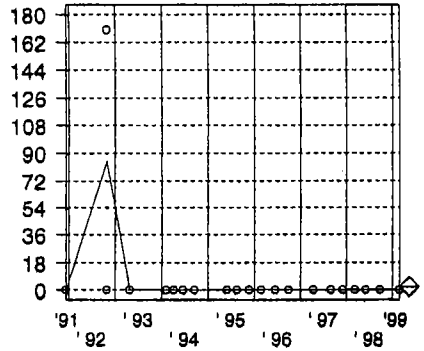
Bromoform
(ug/L)



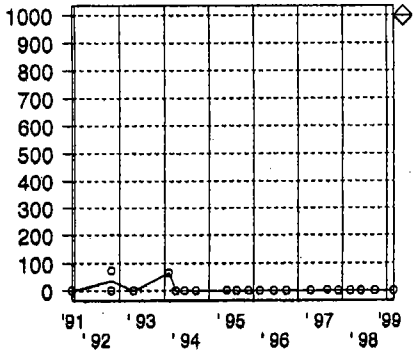
Tetrachloroethene
(ug/L)



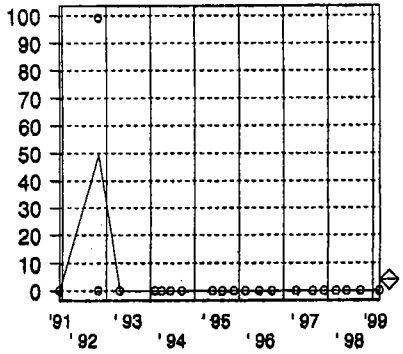
1,1,2,2-Tetrachloroethane
(ug/L)



Toluene
(ug/L)



Chlorobenzene
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 02/24/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-29-1999 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Ethyl benzene	Styrene	1,3-Di-chloro benzene	1,2-Di-chloro benzene	1,4-Di-chloro benzene	Acetone	Lead	Iron	Manganese	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l	ug/l	-
NJDEP Criteria:	-	700	100	600	600	75	700	10	300	50	-
12/10/91	ENV PRO	ND	ND	ND	ND	ND	ND	4	-	-	-
10/26/92	ENV PRO	90	84	100	120	120	ND	ND	-	-	-
10/26/92D	ENV PRO	ND	ND	ND	ND	ND	ND	ND	-	-	-
04/21/93	21st CEN	ND	ND	ND	ND	ND	ND	70	-	-	-
04/28/93	21st CEN	-	-	-	-	-	-	-	-	-	BNA Only
02/03/94	21st CEN	16	ND	ND	ND	ND	54	ND	-	-	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	6.9	ND	-	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	-	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	-	-	-
05/25/95	EMSL	ND	ND	ND	ND	ND	ND	ND	-	-	-
08/15/95	EMSL	ND	ND	ND	ND	ND	ND	3.3	-	-	-
11/21/95	EMSL	ND	ND	ND	ND	ND	ND	ND	-	-	-
02/20/96	EMSL	ND	ND	ND	ND	ND	ND	4	-	-	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	1.2	-	-	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	2.5	-	-	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	1.4	-	-	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	7.0	4110	93	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	ND	5800	108	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	ND	ND	0.5	-	-	V.Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 02/24/99

NOTES:

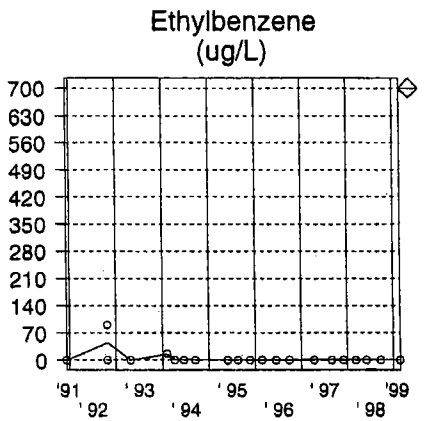
Page 3 of 4.

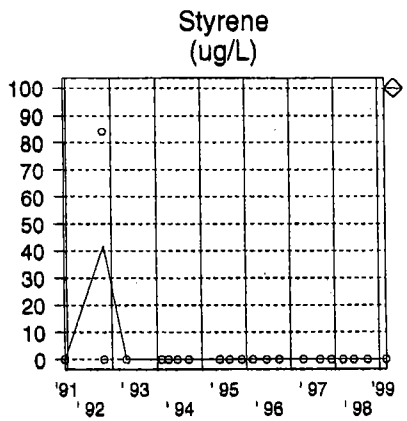
FORT MONMOUTH

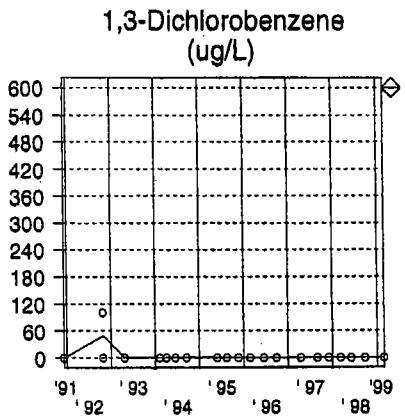
GW MONITORING
Bldg: 2567

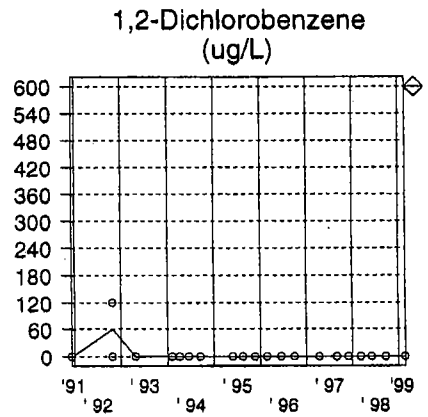
Well 1 of 5

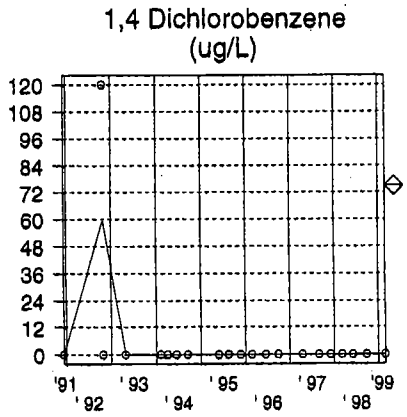
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

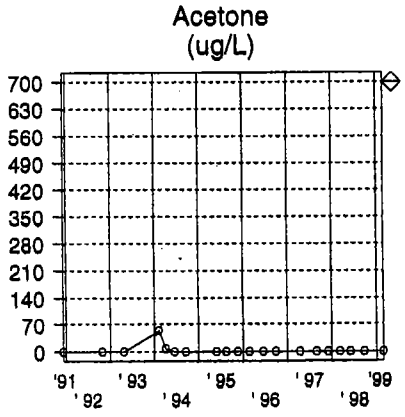


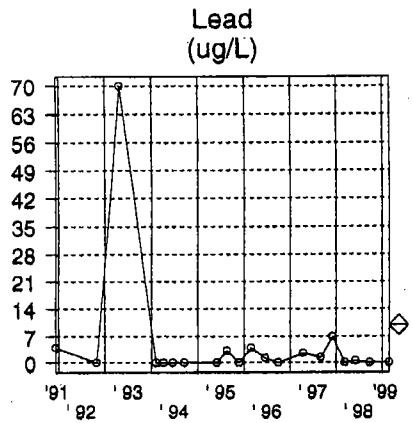


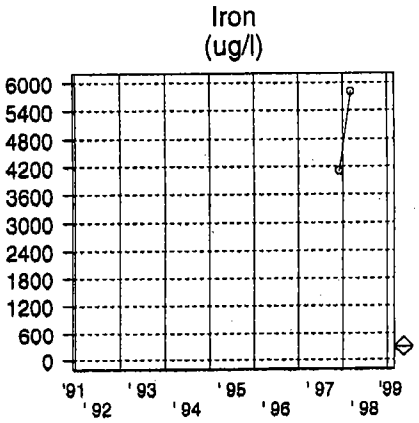


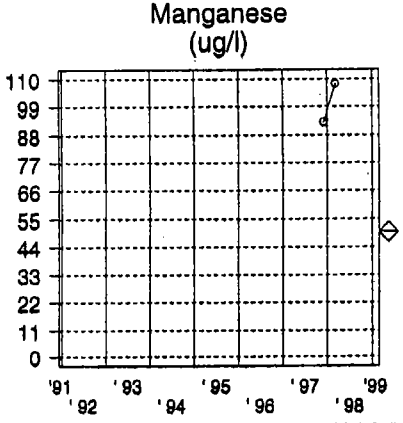












SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 02/24/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-29-1999 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Sodium	Depth to Water								Notes
Units:	-	ug/l	Feet								-
NJDEP Criteria:	-	50000	-								-
12/10/91	ENV PRO	-	-								-
10/26/92	ENV PRO	-	-								-
10/26/92D	ENV PRO	-	-								-
04/21/93	21st CEN	-	-								-
04/28/93	21st CEN	-	-								BNA Only
02/03/94	21st CEN	-	-								-
03/31/94	21st CEN	-	-								-
06/14/94	21st CEN	-	-								-
09/15/94	21st CEN	-	-								-
05/25/95	EMSL	-	-								-
08/15/95	EMSL	-	-								-
11/21/95	EMSL	-	-								-
02/20/96	EMSL	-	-								-
06/13/96	FMETL	-	-								-
09/27/96	FMETL	-	-								-
04/11/97	FMETL	-	3.80								V,Pb
08/28/97	FMETL	-	4.80								V,Pb
12/02/97	FMETL	76000	3.90								V,S,P,M
03/04/98	FMETL	48900	3.51								V,S,P,M
06/01/98	FMETL	-	4.06								V.Pb
09/24/98	FMETL	-	5.21								V,Pb
09/24/98	FMETL	-	4.90								V,Pb
02/24/99	FMETL	-	3.75								V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 02/24/99

NOTES:

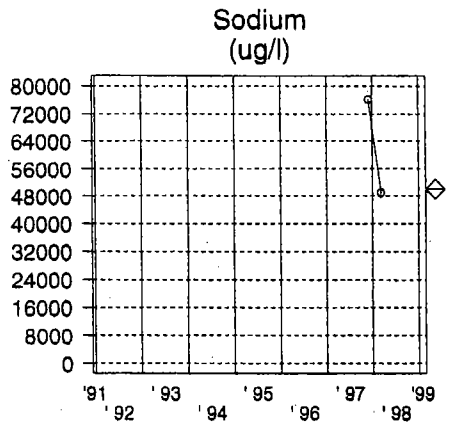
Page 4 of 4.

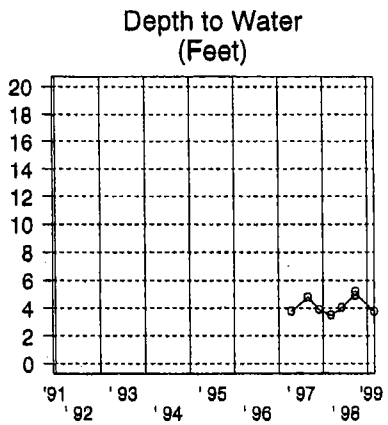
FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 02/24/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-29-1999 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Methylene chloride	1,2-Dichloro ethane	Xylene	Methyl tertiary butyl ether	Toluene	Ethyl benzene	Acetone	Butyl benzyl phthalate	Carbon Disulfide	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	2	2	1000	NA	1000	700	700	100	NA	-
12/10/91	ENV PRO	7	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/92	ENV PRO	23	ND	3	ND	ND	ND	ND	ND	ND	-
04/21/93	ENV PRO	ND	ND	2.0	ND	ND	ND	2.5	ND	ND	-
04/28/93	21st CEN	-	-	-	-	-	-	-	18	-	BNA Only
02/03/94	21st CEN	4.0	ND	43	7.0	55	7.4	ND	ND	3.1	-
03/31/94	21st CEN	17	ND	2.5	11	ND	ND	140	ND	ND	-
06/14/94	21st CEN	ND	ND	3.0	11	ND	1.1	ND	ND	ND	-
09/15/94	21st CEN	ND	ND	5.5	4.1	1.8	1.2	ND	ND	ND	-
05/25/95	EMSL	0.9	ND	6.5	3.1	ND	0.8	ND	ND	ND	-
08/15/95	EMSL	1.3	ND	5.3	2.5	ND	ND	ND	ND	ND	-
11/21/95	EMSL	0.6	ND	3.6	1.6	ND	ND	ND	ND	ND	-
02/20/96	EMSL	2.0	ND	4.2	2	ND	ND	ND	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/09/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 02/24/99

NOTES:

Page 1 of 2.

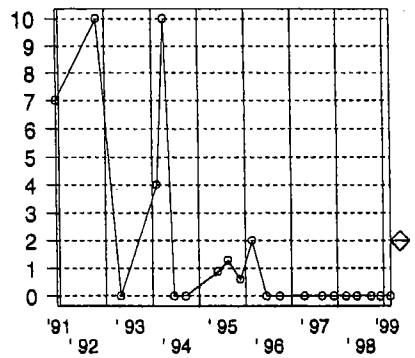
FORT MONMOUTH

GW MONITORING
Bldg. 2567

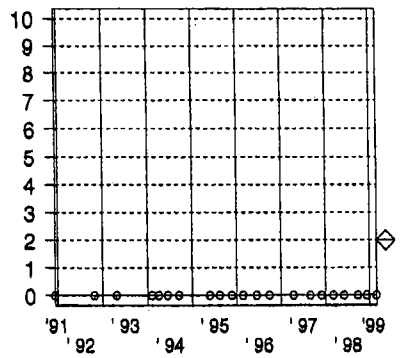
Well 1 of 1

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

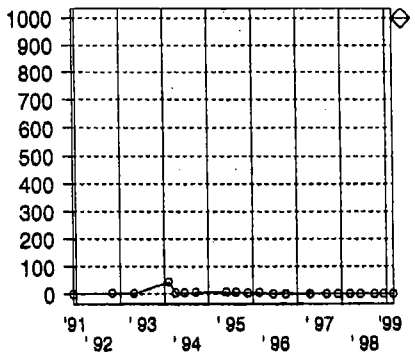
Methylene chloride
(ug/L)



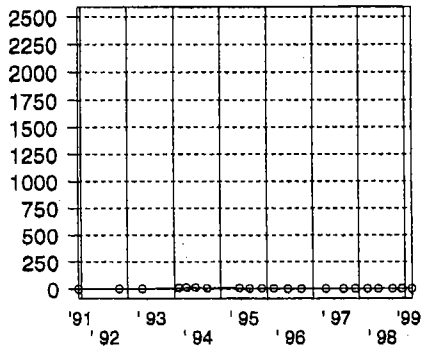
1,2-Dichloroethane
(ug/L)



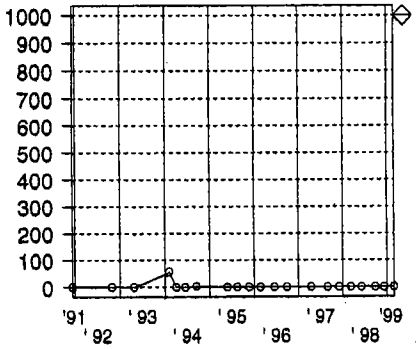
Xylene
(ug/L)



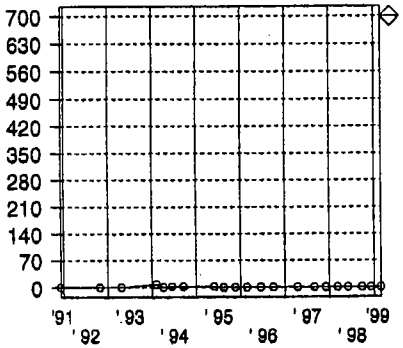
Methyl tertiary butyl ether
(ug/L)



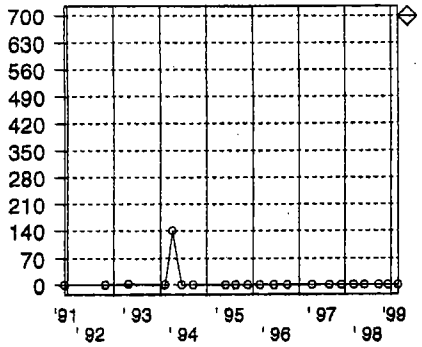
Toluene
(ug/L)



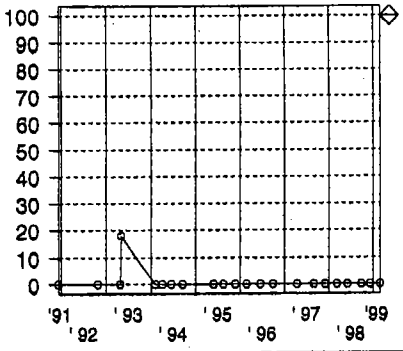
Ethylbenzene
(ug/L)



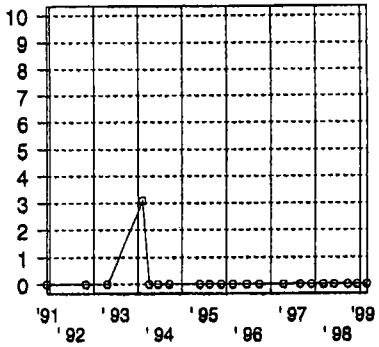
Acetone
(ug/L)



Butylbenzylphthalate
(ug/L)



Carbon disulfide
(ug/L)



SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 02/24/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 1, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-29-1999 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Naphthalene	Lead	Iron	Manganese	Sodium	Depth to Water				Notes
Units:	-	ug/L	ug/L	ug/l	ug/l	ug/l	Feet				-
NJDEP Criteria:	-	300	10	300	50	50000	-				-
12/10/91	ENV PRO	ND	ND	-	-	-	-				-
10/26/92	ENV PRO	ND	11	-	-	-	-				-
04/21/93	ENV PRO	ND	ND	-	-	-	-				-
04/28/93	21st CEN	ND	ND	-	-	-	-				BNA Only
02/03/94	21st CEN	ND	260	-	-	-	-				-
03/31/94	21st CEN	ND	ND	-	-	-	-				-
06/14/94	21st CEN	ND	ND	-	-	-	-				-
09/15/94	21st CEN	ND	ND	-	-	-	-				-
05/25/95	EMSL	11	ND	-	-	-	-				-
08/15/95	EMSL	11	5.6	-	-	-	-				-
11/21/95	EMSL	7.3	ND	-	-	-	-				-
02/20/96	EMSL	7.2	ND	-	-	-	-				-
06/13/96	FMETL	ND	ND	-	-	-	-				-
09/27/96	FMETL	ND	1.2	-	-	-	-				-
04/11/97	FMETL	ND	10.7	-	-	-	3.40				V,Pb
08/28/97	FMETL	ND	ND	-	-	-	4.30				V,Pb
12/02/97	FMETL	4.79	20	16300	272	58700	3.45				V,S,P,M
03/04/98	FMETL	1.67	8.0	12400	100	26600	2.92				V,S,P,M
06/01/98	FMETL	-	1.4	-	-	-	3.59				V,Pb
09/24/98	FMETL	-	ND	-	-	-	4.73				V,Pb
12/09/98	FMETL	-	ND	-	-	-	3.42				V,Pb
02/24/99	FMETL	-	ND	-	-	-	3.38				V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 02/24/99

NOTES:

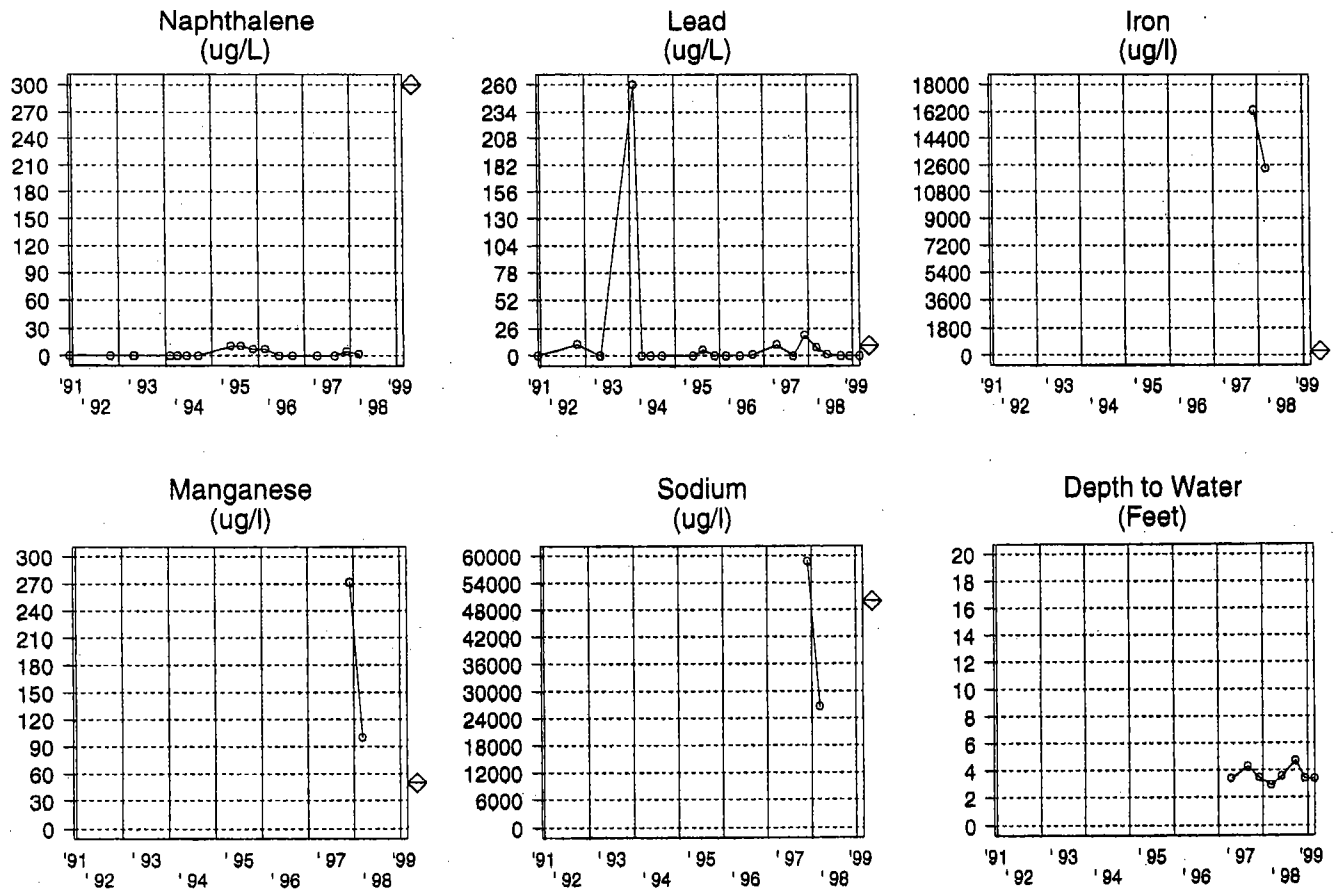
Page 2 of 2.

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 1

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 02/24/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 1, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-29-1999 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Methylene chloride	Benzene	Xylene	Tert-butyl alcohol	Methyl tertiary butyl ether	Toluene	Ethyl benzene	Acetone	Butyl benzyl phthalate	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	2	1	1000	NA	NA	1000	700	700	100	-
12/10/91	ENV PRO	240	110	200	ND	69	ND	ND	ND	ND	-
10/26/92	ENV PRO	24	ND	3	ND	ND	ND	ND	1	ND	-
04/21/93	ENV PRO	ND	180	74.2	ND	27	15	ND	7.7	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	12	BNA Only
02/03/94	21st CEN	4.4	19	65	ND	9.1	43	7.0	ND	ND	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/94	21st CEN	ND	15	3.4	ND	100	ND	5.4	ND	ND	-
09/15/94	21st CEN	ND	ND	1.4	ND	61	ND	ND	ND	ND	-
05/25/95	EMSL	21	94	190	ND	400	3.8	6.3	ND	ND	-
08/15/95	EMSL	25	89	360	ND	670	ND	8.4	ND	ND	-
11/21/95	EMSL	18	35	91	46	360	ND	ND	ND	ND	-
02/20/96	EMSL	ND	40	70	43	250	1	4.5	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	25	ND	ND	940	62	ND	ND	ND	ND	V,Pb
12/02/97	FMETL	ND	4.31	ND	ND	188	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	19	8.6	ND	102	ND	ND	ND	ND	V,S,P,M
06/19/98	FMETL	ND	4.68	ND	27.52	81.82	ND	ND	ND	ND	V,Pb
09/25/98	FMETL	ND	5.96	3.62	ND	27.27	ND	ND	ND	ND	V,Pb
12/16/98	FMETL	ND	15.45	3.67	19.38	20.54	ND	ND	ND	ND	V,Pb
02/24/99	FMETL	ND	1.03	ND	ND	3.3	ND	ND	ND	ND	V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 02/24/99

NOTES:

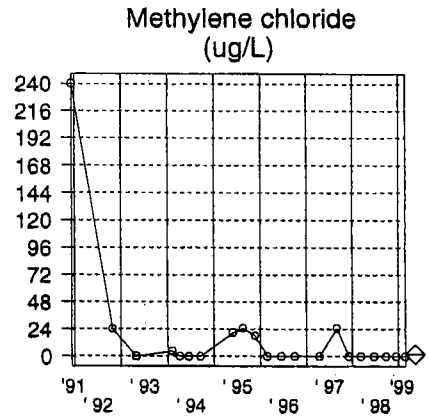
Page 1 of 2.

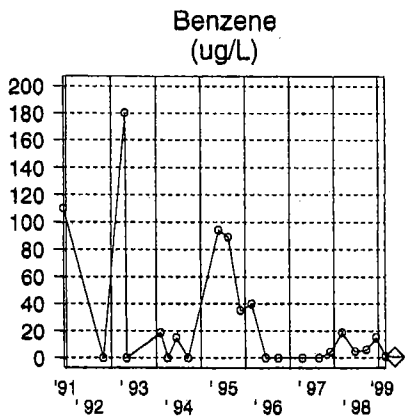
FORT MONMOUTH

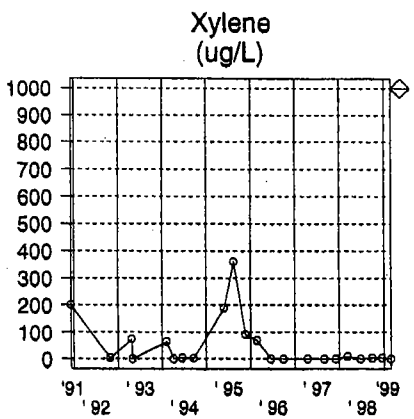
GW MONITORING
Bldg. 2567

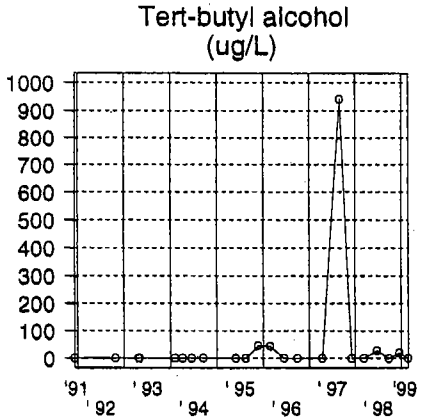
Well 1 of 1

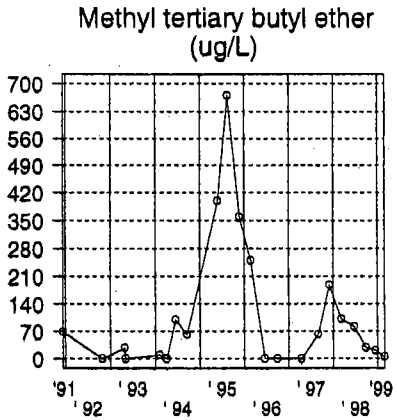
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

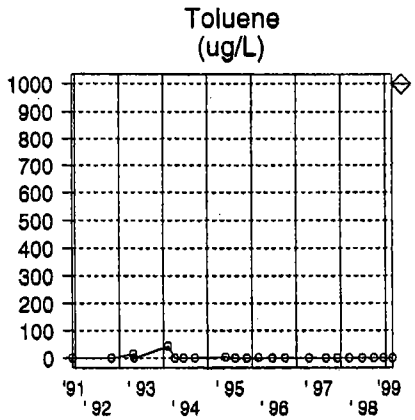


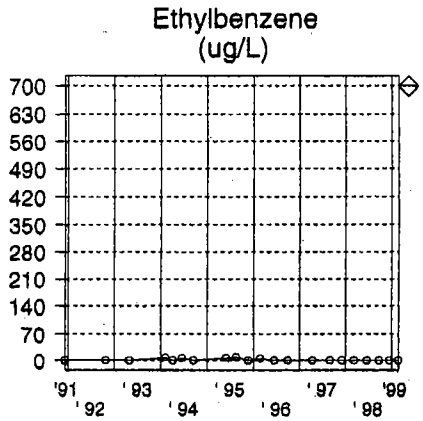


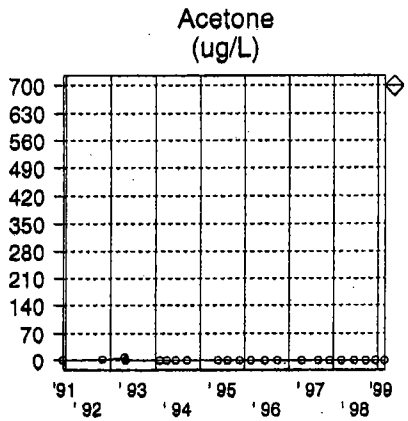


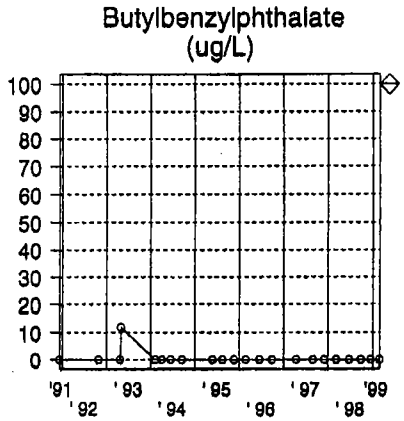












SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 02/24/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 1, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-29-1999 c:\mtech48\fm\2567\gw\2567.wsl

	Lab	Naphthalene	Lead	Iron	Manganese	Sodium	Depth to Water				Notes
Units:	-	ug/L	ug/L	ug/l	ug/l	ug/l	Feet				-
NJDEP Criteria:	-	300	10	300	50	50000	-				-
12/10/91	ENV PRO	ND	ND	-	-	-	-				-
10/26/92	ENV PRO	ND	5	-	-	-	-				-
04/21/93	ENV PRO	ND	60	-	-	-	-				-
04/28/93	21st CEN	1.2	ND	-	-	-	-				BNA Only
02/03/94	21st CEN	ND	41	-	-	-	-				-
03/31/94	21st CEN	ND	25	-	-	-	-				-
06/14/94	21st CEN	ND	3	-	-	-	-				-
09/15/94	21st CEN	ND	ND	-	-	-	-				-
05/25/95	EMSL	ND	2.7	-	-	-	-				-
08/15/95	EMSL	21	ND	-	-	-	-				-
11/21/95	EMSL	6.6	ND	-	-	-	-				-
02/20/96	EMSL	5.4	6	-	-	-	-				-
06/13/96	FMETL	ND	0.7	-	-	-	-				-
09/27/96	FMETL	ND	6.2	-	-	-	-				-
04/11/97	FMETL	ND	1.8	-	-	-	3.15				V,Pb
08/28/97	FMETL	ND	ND	-	-	-	4.00				V,Pb
12/02/97	FMETL	1.92	10.0	5340	56.6	26900	3.10				V,S,P,M
03/04/98	FMETL	1.67	ND	13900	144	39600	2.48				V,S,P,M
06/19/98	FMETL	-	ND	-	-	-	3.99				V,Pb
09/25/98	FMETL	-	ND	-	-	-	4.56				V,Pb
12/16/98	FMETL	-	ND	-	-	-	4.25				V,Pb
02/24/99	FMETL	-	1.0	-	-	-	3.16				V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 02/24/99

NOTES:

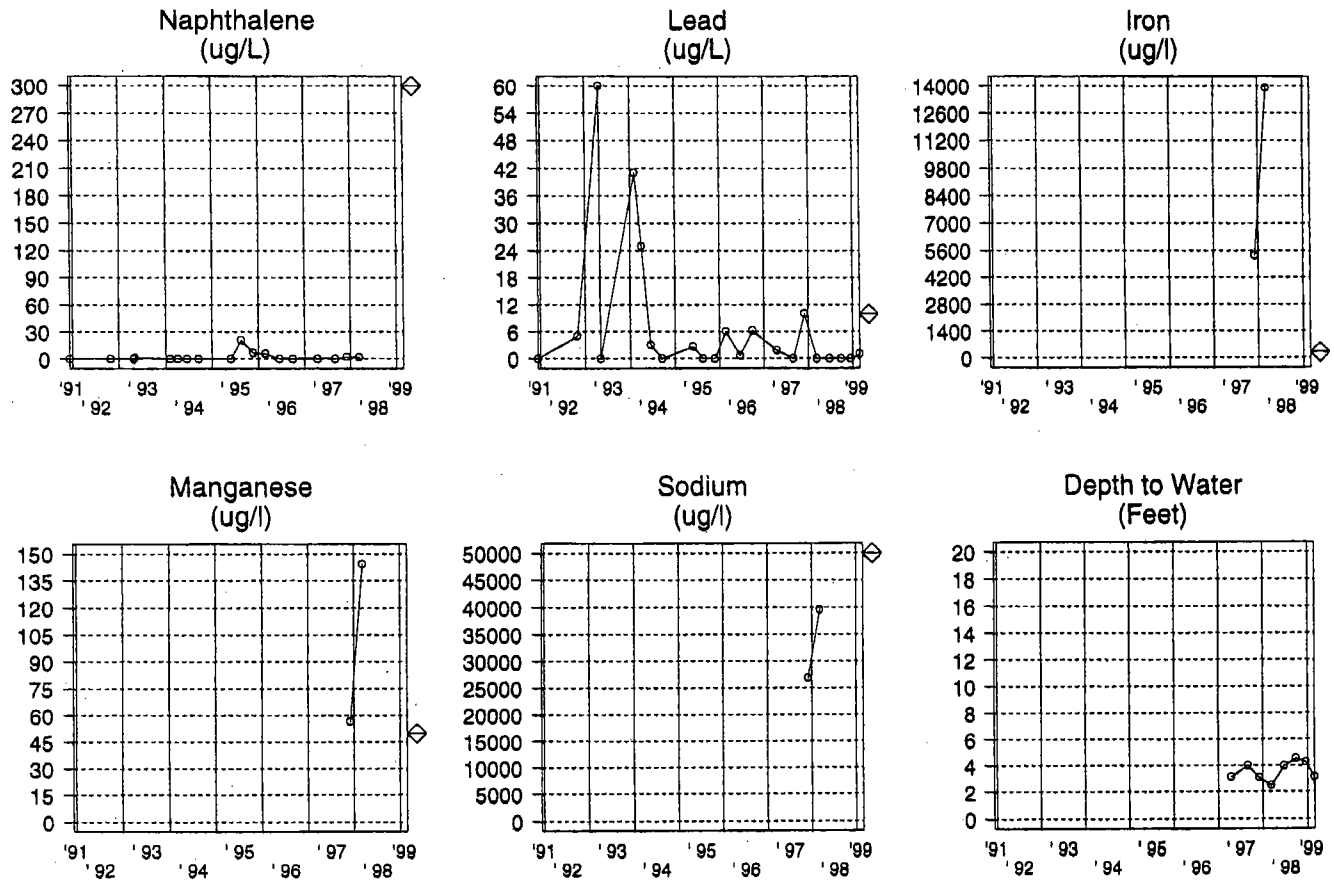
Page 2 of 2.

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 1

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 02/24/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 1, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-29-1999 c:\mtech46\fm\2567\gw\2567.wsf

	Lab	Methylene chloride	Benzene	Xylene	Toluene	Ethyl benzene	Acetone	Butyl benzyl phthalate	Lead	Iron	Notes
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l	-
NJDEP Criteria:	-	2	1	1000	1000	700	700	100	10	300	-
12/10/91	EMSL	ND	ND	ND	ND	ND	ND	ND	5	-	-
10/26/92	ENV PRO	27	ND	ND	ND	ND	ND	ND	ND	-	-
04/21/93	ENV PRO	ND	ND	ND	ND	ND	2.4	ND	ND	-	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	10	ND	-	BNA Only
02/03/94	21st CEN	5.0	14	60	56	8.9	ND	ND	ND	-	-
03/31/94	21st CEN	2.3	ND	ND	ND	ND	ND	ND	ND	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	-
05/25/95	EMSL	1.0	ND	ND	ND	ND	ND	ND	ND	-	-
08/15/95	EMSL	1.3	ND	ND	ND	ND	ND	ND	2.6	-	-
11/21/95	EMSL	0.6	ND	ND	ND	ND	ND	ND	ND	-	-
02/20/96	EMSL	1.2	ND	ND	ND	ND	ND	ND	ND	-	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	1.8	-	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	2.3	-	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	ND	9.0	3590	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	4200	V,S,P,M
06/19/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
12/12/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 02/24/99

NOTES:

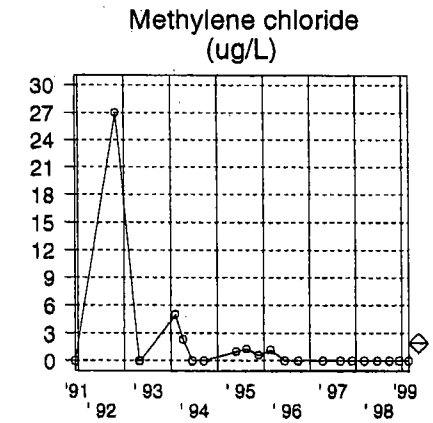
Page 1 of 2.

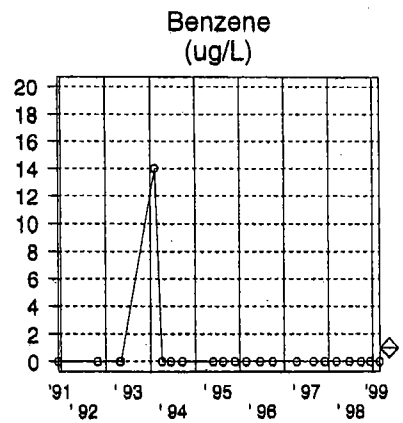
FORT MONMOUTH

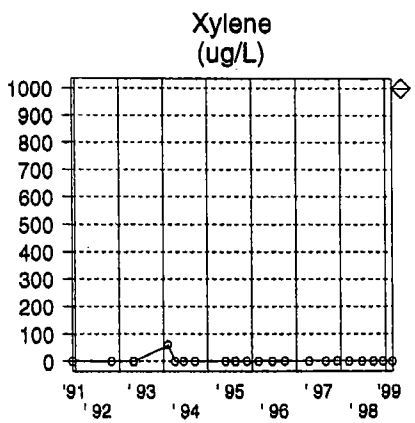
GW MONITORING
Bldg. 2567

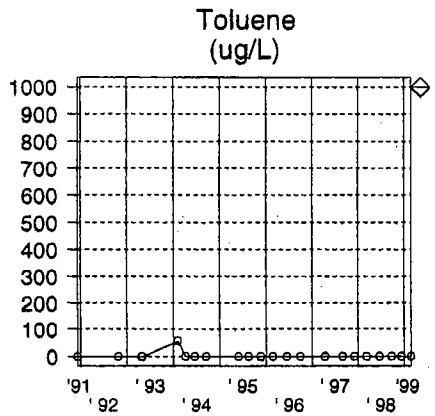
Well 1 of 1

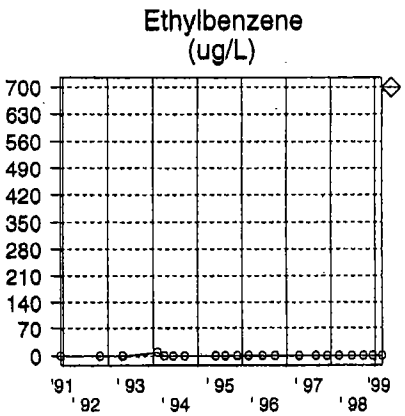
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

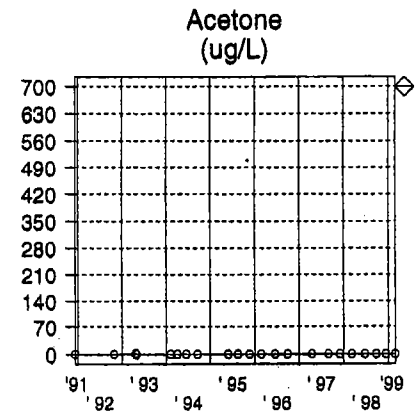


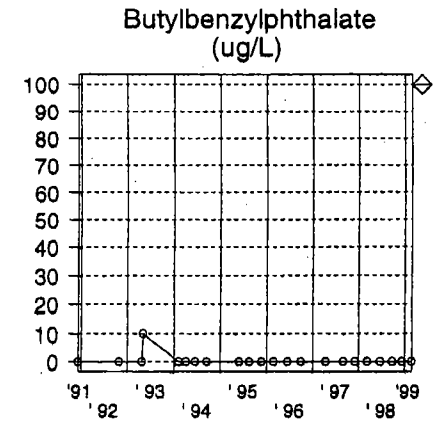


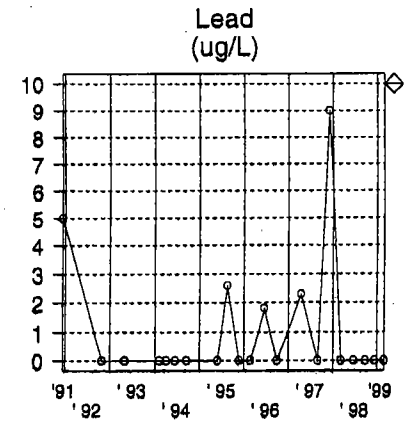


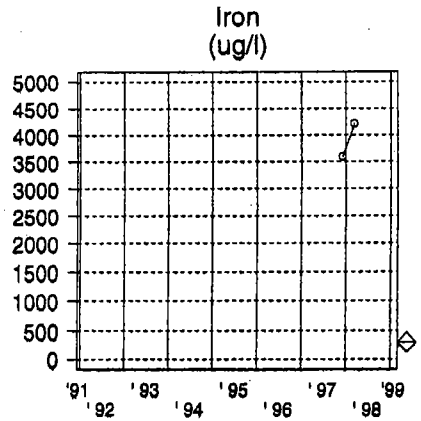












SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 02/24/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 1, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-29-1999 c:\vmtech46\fm\2567\gw\2567.wsf

	Lab	Manganese	Sodium	Depth to Water							Notes
Units:	-	ug/l	ug/l	Feet							-
NJDEP Criteria:	-	50	50000	-							-
12/10/91	EMSL	-	-	-							-
10/26/92	ENV PRO	-	-	-							-
04/21/93	ENV PRO	-	-	-							-
04/28/93	21st CEN	-	-	-							BNA Only
02/03/94	21st CEN	-	-	-							-
03/31/94	21st CEN	-	-	-							-
06/14/94	21st CEN	-	-	-							-
09/15/94	21st CEN	-	-	-							-
05/25/95	EMSL	-	-	-							-
08/15/95	EMSL	-	-	-							-
11/21/95	EMSL	-	-	-							-
02/20/96	EMSL	-	-	-							-
06/13/96	FMETL	-	-	-							-
09/27/96	FMETL	-	-	-							-
04/11/97	FMETL	-	-	2.55							V,Pb
08/28/97	FMETL	-	-	3.20							V,Pb
12/02/97	FMETL	90	15600	2.45							V,S,P,M
03/04/98	FMETL	79	12600	2.11							V,S,P,M
06/19/98	FMETL	-	-	2.33							V,Pb
09/24/98	FMETL	-	-	3.55							V,Pb
12/12/98	FMETL	-	-	3.11							V,Pb
02/24/99	FMETL	-	-	2.44							V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 02/24/99

NOTES:

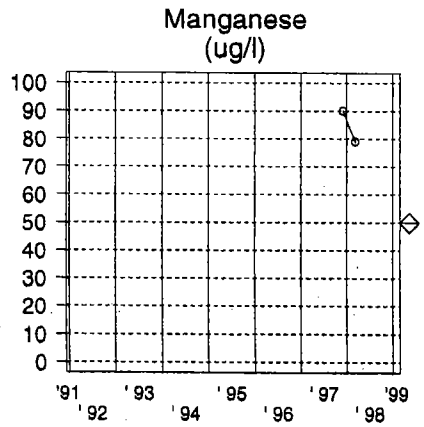
Page 2 of 2.

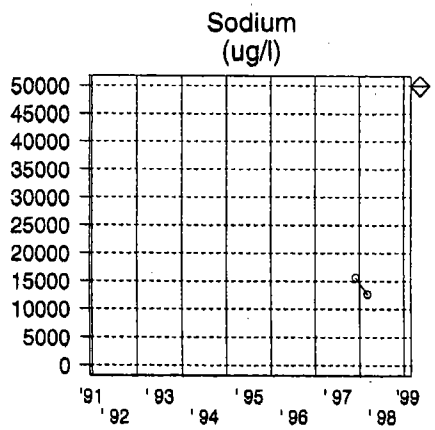
FORT MONMOUTH

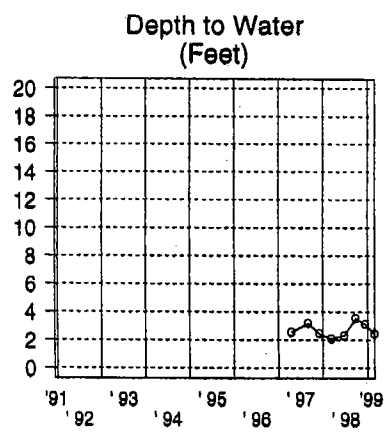
GW MONITORING
Bldg. 2567

Well 1 of 1

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 02/24/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

Well 1 of 1, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-29-1999 c:\mtech46\fm\2567\gw\2567.wsl

	Lab	Methylene chloride	Lead	Iron	Manganese	Sodium	Depth to Water				Notes
Units:	-	ug/L	ug/L	ug/l	ug/l	ug/l	Feet				-
NJDEP Criteria:	-	2	10	300	50	50000	-				-
05/25/95	EMSL	1.2	4.0	-	-	-	-				-
08/15/95	EMSL	1.2	ND	-	-	-	-				-
11/21/95	EMSL	ND	ND	-	-	-	-				-
02/20/96	EMSL	0.8	ND	-	-	-	-				-
09/27/96	FMETL	ND	ND	-	-	-	-				-
04/11/97	FMETL	ND	2.7	-	-	-	7.20				V,Pb
08/28/97	FMETL	ND	ND	-	-	-	7.50				V,Pb
12/02/97	FMETL	ND	7.0	19200	100	10500	7.20				V,S,P,M
03/04/98	FMETL	ND	ND	16400	56	9100	7.30				V,S,P,M
06/01/98	FMETL	ND	ND	-	-	-	7.55				V,Pb
09/25/98	FMETL	ND	ND	-	-	-	7.59				V,Pb
12/16/98	FMETL	ND	ND	-	-	-	7.34				V,Pb
02/24/99	FMETL	ND	ND	-	-	-	8.16				V,Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/95 - 02/24/99

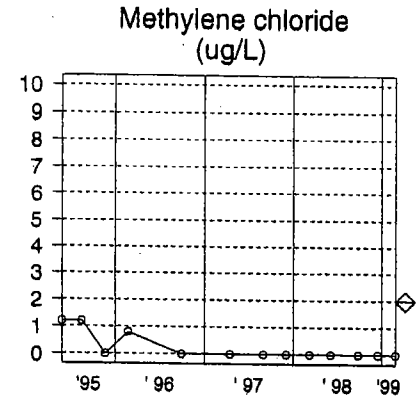
NOTES:

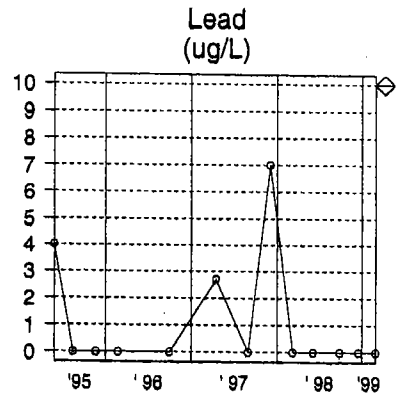
FORT MONMOUTH

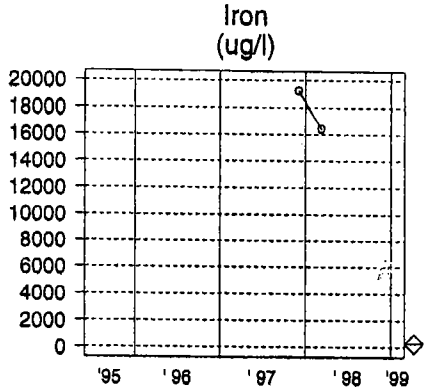
GW MONITORING
Bldg. 2567

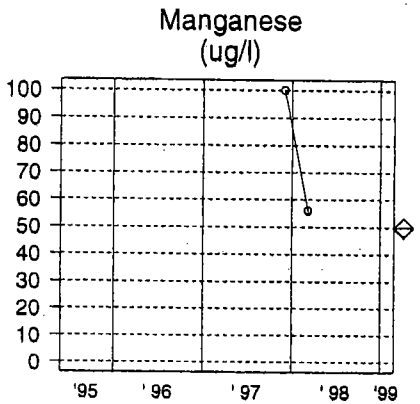
Well 1 of 1

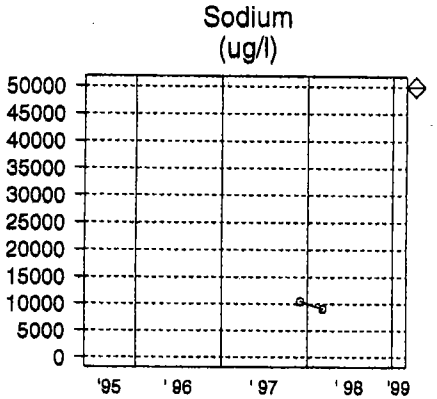
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

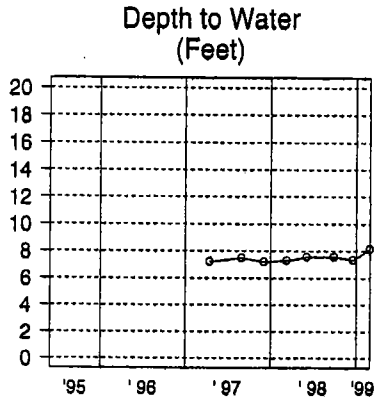












SOURCE: 2567MW05

Sampling Dates:
05/25/95 - 02/24/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567

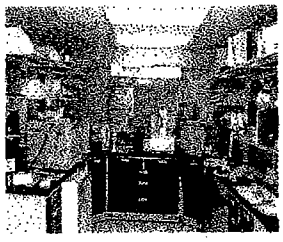
Well 1 of 1, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

03-29-1999 c:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4524.03	2567MW01	29-26925	05/29/99
4524.04	2567MW02	29-26926	05/29/99
4524.05	2567MW03	29-26947	05/29/99
4524.06	2567MW04	29-26948	05/29/99
4535.01	2567MW05	29-31783	06/08/99

NJDEP Laboratory Certification # 13461

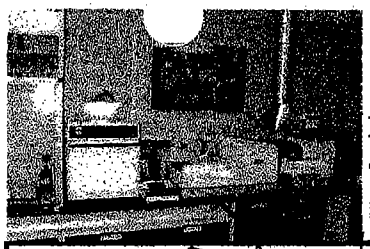
7-12-99

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: C. Appleby
Phone #: 732 6224
(X)DERA ( )OMA ( )Other:_____

Project No: LTM
Location: BLDG. 2567

Samplers Name / Company David Deinhardt

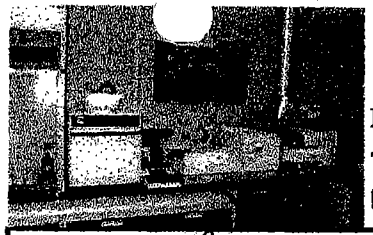
Comments: HNO_3/HCL PRESERVATION IN FIELD

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOA HS	Pb						HNL	Remarks / Preservation Method
4524. 01	TRIP BLANK	5/29/99	0715	AQ	2	/							—	
02	FIELD BLANK		0850		3	/	/						—	
03	2567 MW01		0910		3	/	/						20	
04	2567 MW02		1010		3	/	/						200	
05	2567 MW03		0950		3	/	/						35	
06	2567 MW04		1025		3	/	/						0	
~~07~~	~~2567 MW05~~		~~0959~~		~~3~~	~~/~~	~~/~~						~~60~~	Cancelled
08	FIELD DUPLICATE		—		3	/	/						—	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
D. Deinhardt	6/1/99 ~~5/29/99~~ 730	J. Vengrine			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified
Turnaround time: (X)Standard 4 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks:



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: C. Appleby
Phone #: X216224
(X)DERA ( )OMA ( )Other:_____

Project No:
Location: 2567 Qtly wells (MW05) 2nd Qtr '99

Samplers Name / Company : Corey M. Cormack

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOTIS	BNA TAL	Pest/PCB	TAL Metals				Cont. Rec.	Remarks / Preservation Method
4535 .01	2567 MW 05	6/8/99	1318	AQ	5	✓	✓	✓	✓				0.0	29-31783
														☆ Missed on 1st sampling CPM

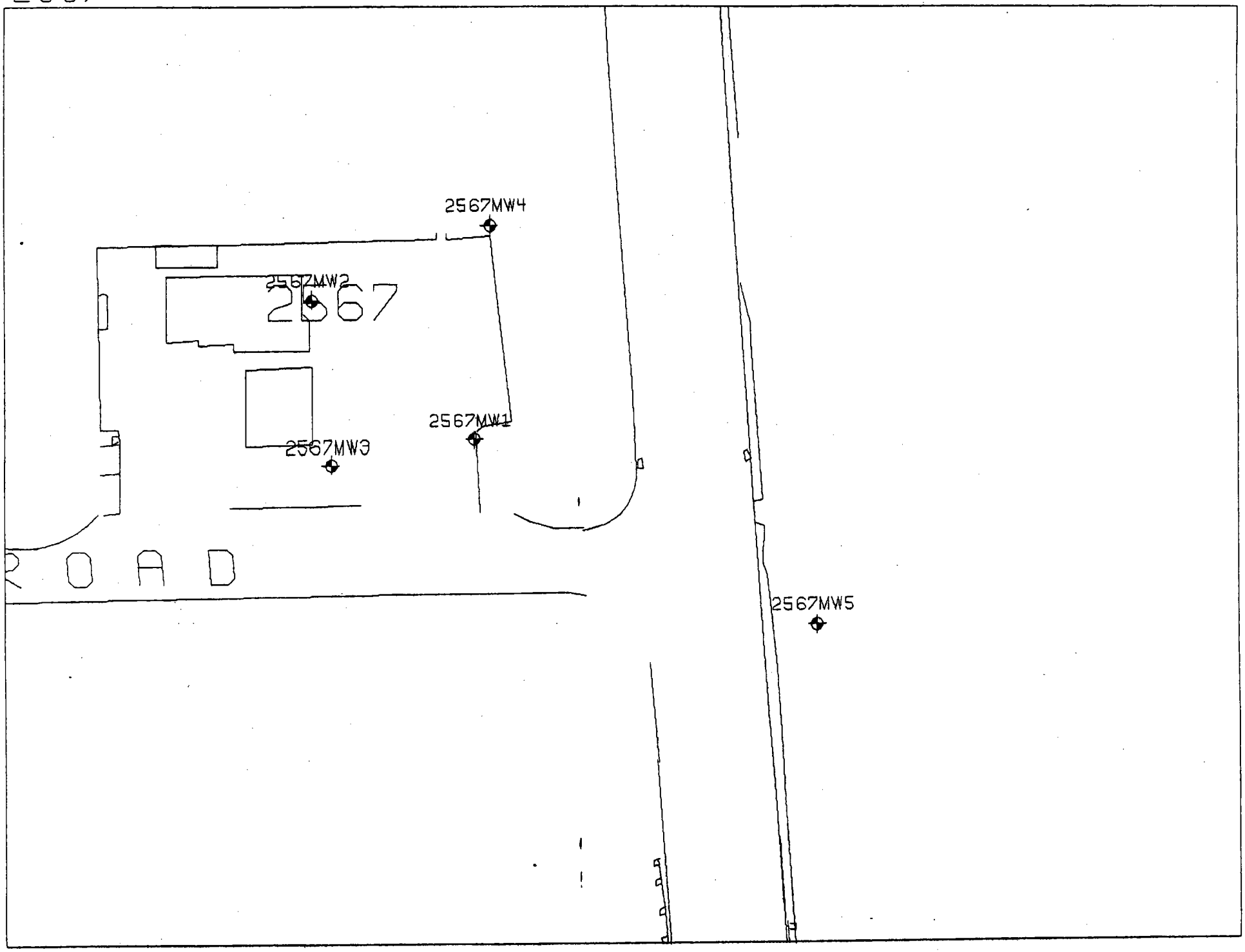
Comments: HCL/HNO_3/4°C

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey M. Cormack	6/8/99 1415	Jackie Turner			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified
Turnaround time: (X)Standard 4 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks:
Tide: N/A

256,



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/29/99
WEATHER: Sunny, warm.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 35.26 ft
DEPTH TO WATER: 4.20 ft
DEPTH OF WELL: 13.10 ft
HEIGHT OF WATER: 8.9 ft
(8.9) X .65 X 3 = 17.355
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.29 GPM
Hnu READING: 20 PPM

PURGE START TIME: 08:10
pH 7.17 su
DISSOLVED O_2 2.65 PPM
TEMP 15.4 °C
SPECIFIC CONDUCTIVITY 320 us/cm

PURGE END TIME: 09:10
pH 7.27 su
DISSOLVED O_2 3.39 PPM
TEMP 17.7 °C
SPECIFIC CONDUCTIVITY 520 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.71 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 17 gal

pH 7.08 su
DISSOLVED O_2 4.77 PPM
TEMP 19.0 °C
SPECIFIC CONDUCTIVITY 550 us/cm

COMMENTS: Field Dup.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/29/99
WEATHER: Sunny, warm.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 35.26 ft
DEPTH TO WATER: 3.83 ft
DEPTH OF WELL: 12.20 ft
HEIGHT OF WATER: 8.37 ft
(8.37) X .65 X 3 = 16.32
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.16 GPM
Hnu READING: 200 PPM

PURGE START TIME: 08:35
pH 7.00 su
DISSOLVED O_2 1.96 PPM
TEMP 17.0 °C
SPECIFIC CONDUCTIVITY 340 us/cm

PURGE END TIME: 10:10
pH 6.94 su
DISSOLVED O_2 2.68 PPM
TEMP 20.1 °C
SPECIFIC CONDUCTIVITY 430 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.37 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 16 gal

pH 6.96 su
DISSOLVED O_2 5.70 PPM
TEMP 18.7 °C
SPECIFIC CONDUCTIVITY 180 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/29/99
WEATHER: Sunny, warm.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 33.88 ft
DEPTH TO WATER: 3.55 ft
DEPTH OF WELL: 12.50 ft
HEIGHT OF WATER: 8.95 ft
(8.95) X .65 X 3 = 17.45
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.16 GPM
Hnu READING: 3.5 PPM

PURGE START TIME: 07:58
pH 8.40 su
DISSOLVED O_2 3.5 PPM
TEMP 16.4 °C
SPECIFIC CONDUCTIVITY 130 us/cm

PURGE END TIME: 09:50
pH 7.18 su
DISSOLVED O_2 2.94 PPM
TEMP 18.4 °C
SPECIFIC CONDUCTIVITY 380 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 484 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 17 gal

pH 7.06 su
DISSOLVED O_2 2.95 PPM
TEMP 20.9 °C
SPECIFIC CONDUCTIVITY 360 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/29/99
WEATHER: Sunny, warm.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 33.51 ft
DEPTH TO WATER: 2.76 ft
DEPTH OF WELL: 11.66 ft
HEIGHT OF WATER: 8.9 ft
(8.9) X .65 X 3 = 17.355
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.15 GPM
Hnu READING: 0 PPM

PURGE START TIME: 08:20
pH 7.46 su
DISSOLVED O_2 3.55 PPM
TEMP 15.1 °C
SPECIFIC CONDUCTIVITY 100 us/cm

PURGE END TIME: 10:25
pH 6.65 su
DISSOLVED O_2 2.23 PPM
TEMP 24.2 °C
SPECIFIC CONDUCTIVITY 220 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.99 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 17 gal

pH 6.62 su
DISSOLVED O_2 4.27 PPM
TEMP 17.2 °C
SPECIFIC CONDUCTIVITY 250 us/cm

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 06/08/99
WEATHER: Sunny, hot, humid.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 34.99 ft
DEPTH TO WATER: 7.33 ft
DEPTH OF WELL: 14.73 ft
HEIGHT OF WATER: 7.40 ft
(7.40) X .65 X 3 = 14.43
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 12:17
pH 5.27 su
DISSOLVED O_2 8.31 PPM
TEMP 14.1 °C
SPECIFIC CONDUCTIVITY 309 us/cm

PURGE END TIME: 13:18
pH 5.17 su
DISSOLVED O_2 4.87 PPM
TEMP 13.4 °C
SPECIFIC CONDUCTIVITY 307 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 7.73 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

pH 5.15 su
DISSOLVED O_2 4.80 PPM
TEMP 13.3 °C
SPECIFIC CONDUCTIVITY 308 us/cm

COMMENTS: Well was missed when first sampler sampled site.

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VC000198.D**
Operator **Skelton**
Date Acquired **2 Jun 1999 2:18 pm**

Sample Name **Vblk04**
Field ID **Vblk04**
Sample Multiplie **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Vblk04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4524 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: Vblk04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000198.D

Level: (low/med) LOW Date Received: 6/1/99

% Moisture: not dec. _____ Date Analyzed: 6/2/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB003837.D**
Operator **Skelton**
Date Acquired **9 Jun 1999 7:41 pm**

Sample Name **Vblk118**
Field ID **Vblk118**
Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

6/16/99 1:29 P

C:\Hpchem\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Vblk118

Lab Name: FMETL Contract: LTM

Lab Code: 13461 Case No.: 4535 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: Vblk118

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB003837.D

Level: (low/med) LOW Date Received: 6/8/99

% Moisture: not dec. _____ Date Analyzed: 6/9/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC000211.D	Sample Name	4524.01
Operator	Skelton	Field ID	Trip Blank
Date Acquired	3 Jun 1999 3:21 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	12.42	305372	10.01 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4524 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4524.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000211.D

Level: (low/med) LOW Date Received: 6/1/99

% Moisture: not dec. Date Analyzed: 6/3/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC000212.D	Sample Name	4524.02
Operator	Skelton	Field ID	Field Blank
Date Acquired	3 Jun 1999 4:02 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

6/8/99 1:54 PM

C:\HPCHEM\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4524 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4524.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000212.D

Level: (low/med) LOW Date Received: 6/1/99

% Moisture: not dec. Date Analyzed: 6/3/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC000213.D	Sample Name	4524.03
Operator	Skelton	Field ID	2567MW01
Date Acquired	3 Jun 1999 4:44 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	11.02	1592594	605.10 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	13.06	584043	9.16 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4524 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4524.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000213.D

Level: (low/med) LOW Date Received: 6/1/99

% Moisture: not dec. _____ Date Analyzed: 6/3/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC000214.D	Sample Name	4524.04
Operator	Skelton	Field ID	2567MW02
Date Acquired	3 Jun 1999 5:25 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

6/8/99 1:54 PM

C:\HPCHEM\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4524 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4524.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000214.D

Level: (low/med) LOW Date Received: 6/1/99

% Moisture: not dec. _____ Date Analyzed: 6/3/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC000215.D	Sample Name	4524.05
Operator	Skelton	Field ID	2567MW03
Date Acquired	3 Jun 1999 6:07 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	13.07	1600667	26.34 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene	19.70	192080	1.70 ug/L	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene	28.68	157211	1.04 ug/L	700	0.65 ug/L	
1330-20-7	m+p-Xylenes	28.69	79735	1.29 ug/L	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

6/8/99 1:54 PM

C:\HPCHEM\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4524 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4524.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000215.D

Level: (low/med) LOW Date Received: 6/1/99

% Moisture: not dec. Date Analyzed: 6/3/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 8

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	7.23	27	JN
2. 000109-66-0	Pentane	8.18	7	JN
3.	unknown	12.74	6	J
4. 000096-37-7	Cyclopentane, methyl-	16.36	24	JN
5. 000110-82-7	Cyclohexane	18.57	7	JN
6. 000098-82-8	Benzene, (1-methylethyl)-	30.63	6	JN
7. 000103-65-1	Benzene, propyl-	31.59	5	JN
8. 000300-57-2	Benzene, 2-propenyl-	34.72	14	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC000216.D	Sample Name	4524.06
Operator	Skelton	Field ID	2567MW04
Date Acquired	3 Jun 1999 6:48 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

6/8/99 1:54 PM

C:\HPCHEM\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: 2567MW04

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4524 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4524.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000216.D

Level: (low/med) LOW Date Received: 6/1/99

% Moisture: not dec. Date Analyzed: 6/3/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB003851.D	Sample Name	4535.01
Operator	Skelton	Field ID	2567MW05
Date Acquired	10 Jun 1999 5:24 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

2567MW05

Lab Name: FMETL Contract: LTM

Lab Code: 13461 Case No.: 4535 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4535.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB003851.D

Level: (low/med) LOW Date Received: 6/8/99

% Moisture: not dec. _____ Date Analyzed: 6/10/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC000217.D	Sample Name	4524.08
Operator	Skelton	Field ID	Field Duplicate
Date Acquired	3 Jun 1999 7:30 am	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	11.02	1517177	627.95 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	13.08	566254	9.67 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Duplicate**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4524 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4524.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000217.D

Level: (low/med) LOW Date Received: 6/1/99

% Moisture: not dec. Date Analyzed: 6/3/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 06/01/99
Analysis Completed: 06/01/99

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4535.01
Sample Received: 06/08/99
Analysis Start: 06/17/99
Analysis Completed: 06/17/99

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3120B
Method of Digestion: EPA SW-846, Method 3015B

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
4535.01	2567MW05	ND	10	2.0

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4524.02-.06,.08
Sample Received: 06/01/99
Analysis Start: 06/01/99
Analysis Completed: 06/01

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
4524.02	Field Blank	ND	10	0.8
4524.03	2567MW01	ND	10	0.8
4524.04	2567MW02	ND	10	0.8
4524.05	2567MW03	ND	10	0.8
4524.06	2567MW04	ND	10	0.8
4524.08	Field Duplicate	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 06/17/99
Analysis Completed: 06/17/99

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3120B
Method of Digestion: EPA SW-846, Method 3015B

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	2.0

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

	LAB	LEAD	METHY-LENE CHLORIDE	1,2-DI-CHLORO-ETHANE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	BROMODI-CHLORO-METHANE	1,2-DI-CHLORO-PROPANE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	10	2	2	1	NA	NA	NA	1	1	
12/10/91	ENV PRO	4	240	55	2400	42	4400	2200	ND	ND	-
10/26/92	ENV PRO	ND	420	ND	2800	302	5400	1200	77	62	-
10/26/92D	ENV PRO	ND	130	ND	3200	57	7000	1500	ND	ND	-
04/21/93	21st CEN	70	16	ND	520	ND	470	890	ND	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/94	21st CEN	ND	26	ND	21	41	28	650	ND	ND	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	22	10	ND	ND	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	120	88	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	600	56	ND	ND	-
05/25/95	EMSL	ND	1.5	ND	ND	ND	930	110	ND	ND	-
08/15/95	EMSL	3.3	1.3	ND	ND	ND	930	29	ND	ND	-
11/21/95	EMSL	ND	36	ND	ND	ND	860	80	ND	ND	-
02/20/96	EMSL	4	2.1	ND	ND	ND	780	100	ND	ND	-
06/13/96	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	2.5	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	1.4	ND	ND	39.4	72.7	ND	240	ND	ND	V,Pb
12/02/97	FMETL	7.0	ND	ND	ND	ND	357	20.3	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	560	37	ND	ND	V,S,P,M
06/01/98	FMETL	0.5	ND	ND	ND	ND	95.63	24.23	ND	ND	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	283	10.02	ND	ND	V,Pb
12/09/98	FMETL	ND	ND	ND	ND	ND	143.26	3.43	ND	ND	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	675	26.15	ND	ND	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	605.1	9.16	ND	ND	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 05/29/99

NOTES:

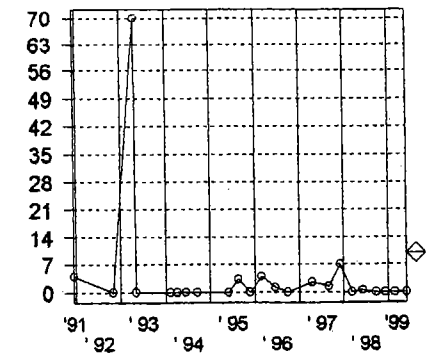
Page 1 of 4.

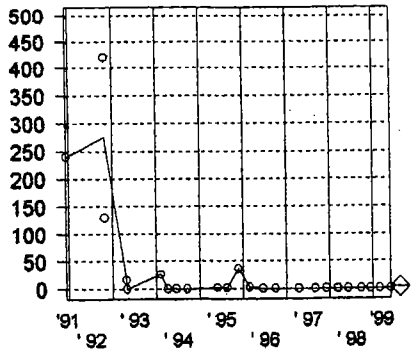
FORT MONMOUTH

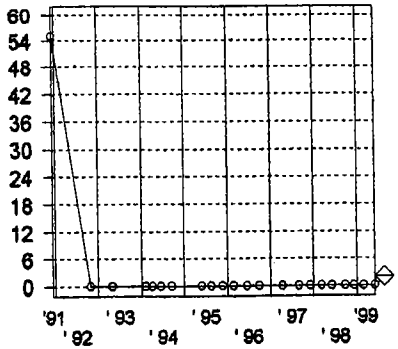
GW MONITORING
Bldg. 2567
Table / Graph A

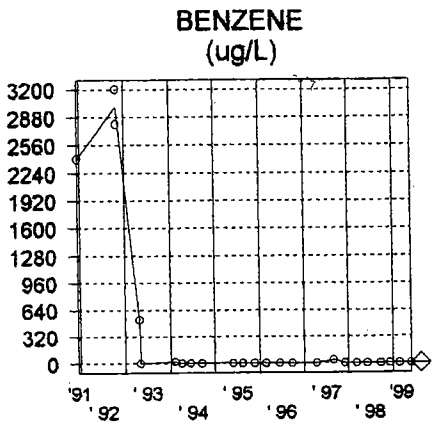
Well 1 of 5

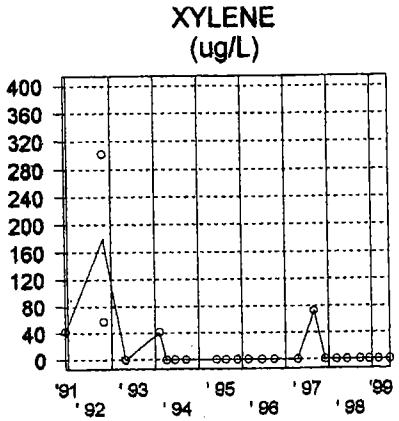
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

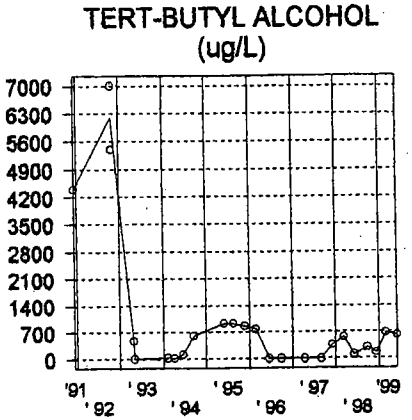


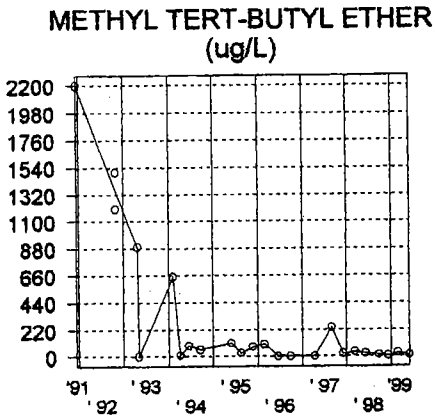


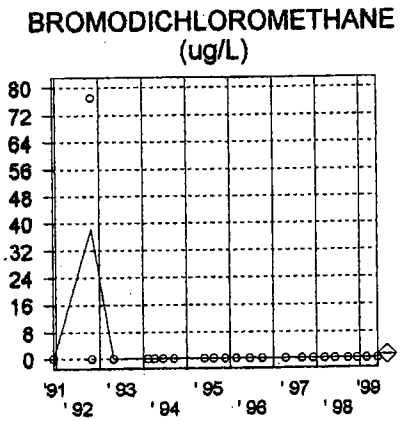


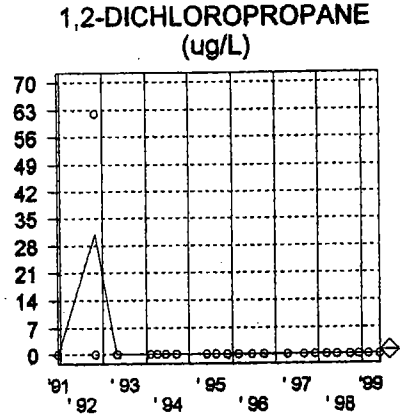












SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 05/29/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

	LAB	CIS-1,3-DI-CHLORO-PROPENE	TRI-CHLORO-ETHENE	DIBROMO-CHLORO-METHANE	1,1,2-TRI-CHLORO-ETHANE	TRANS-1,3 DICHLORO PROPENE	BROMO-FORM	TETRA-CHLORO-ETHENE	1,1,2,2-TET-RACHLORO ETHANE	TOLUENE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	NA	1	10	1	NA	4	1	2	1000	
12/10/91	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/92	ENV PRO	48	32	130	140	220	140	51	170	73	-
10/26/92D	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/21/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	66	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
05/25/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	0.7	-
08/15/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
11/21/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
02/20/96	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	1.3	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/09/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 05/29/99

NOTES:

Page 2 of 4.

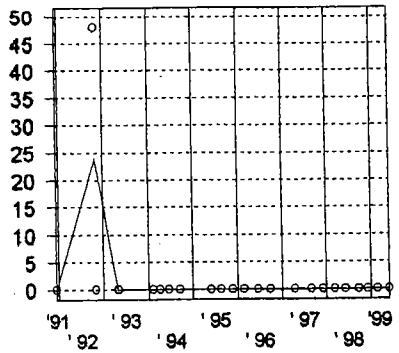
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

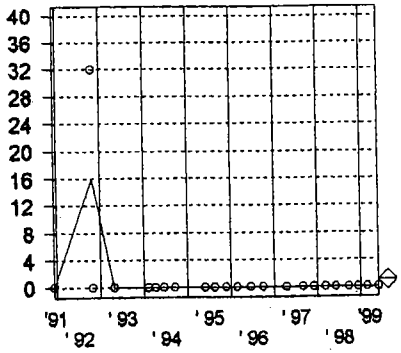
Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

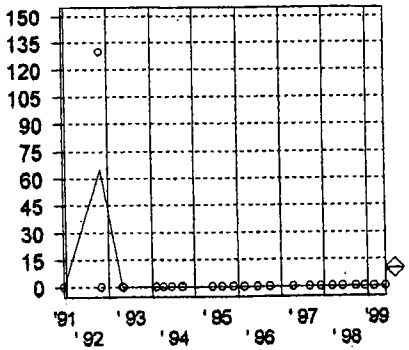
CIS-1,3-DICHLOROPROPENE
(ug/L)



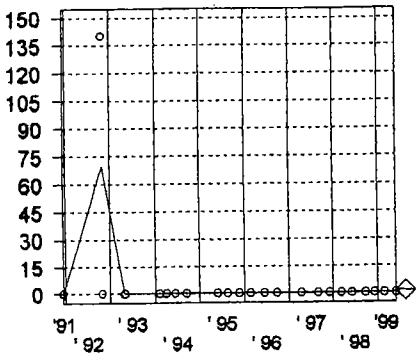
TRICHLOROETHENE
(ug/L)



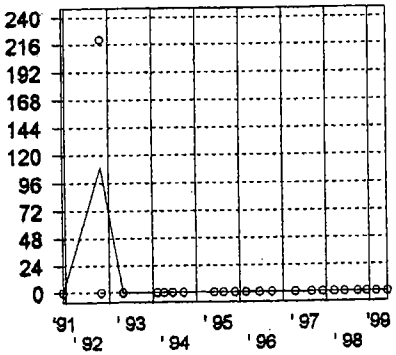
DIBROMOCHLOROMETHANE
(ug/L)



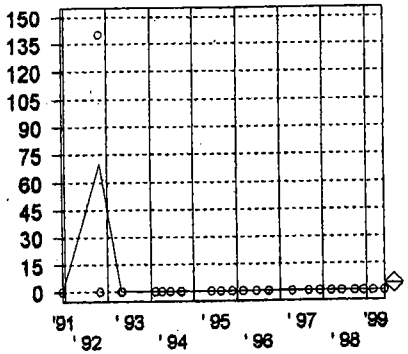
1,1,2-TRICHLOROETHANE
(ug/L)



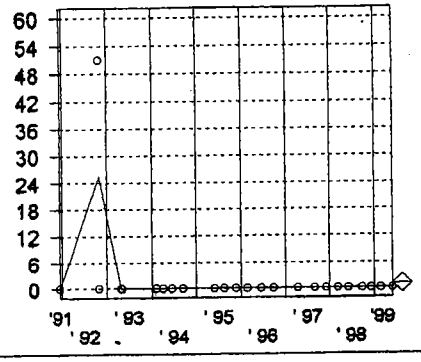
TRANS-1,3-DICHLOROPROPENE
(ug/L)



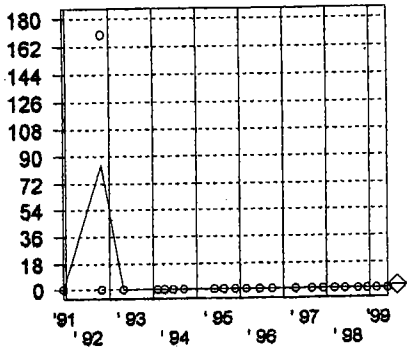
BROMOFORM
(ug/L)



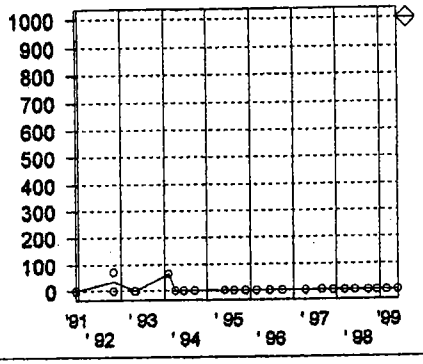
TETRACHLOROETHENE
(ug/L)



1,1,2,2-TETRACHLOROETHANE
(ug/L)



TOLUENE
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 05/29/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

	LAB	CHLORO-BENZENE	ETHYL-BENZENE	STYRENE	1,3-DI-CHLORO-BENZENE	1,2-DI-CHLORO-BENZENE	1,4-DI-CHLORO-BENZENE	ACETONE	BUTYLBENZYLPHTH-ALATE	Iron	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	4	700	100	600	600	75	700	100	300	
12/10/91	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	-	-
10/26/92	ENV PRO	99	90	84	100	120	120	ND	ND	-	-
10/26/92D	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	-	-
04/21/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	12	-	BNA Only
02/03/94	21st CEN	ND	16	ND	ND	ND	ND	54	ND	-	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	ND	6.9	ND	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	-
05/25/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
08/15/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
11/21/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
02/20/96	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	ND	-	4110	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	ND	-	5800	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
12/09/98	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 05/29/99

NOTES:

Page 3 of 4.

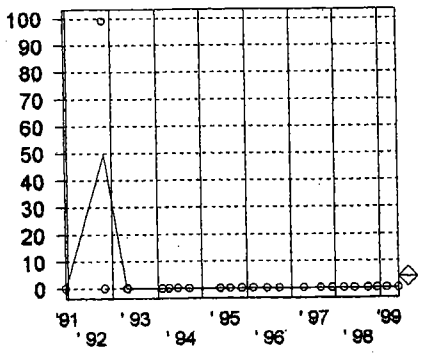
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

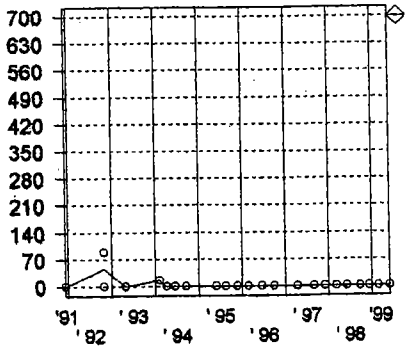
Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

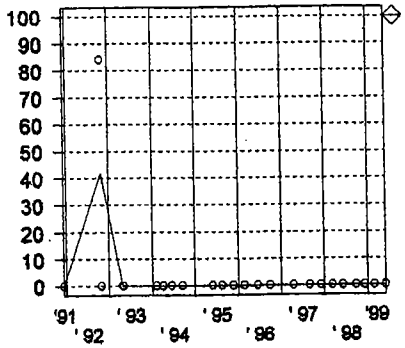
CHLOROBENZENE (ug/L)



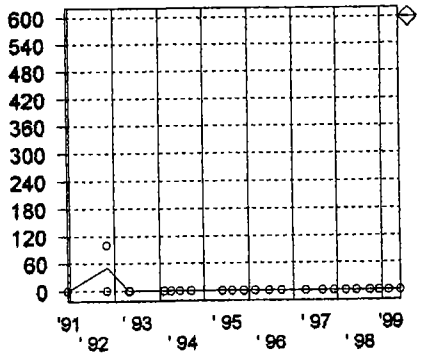
ETHYLBENZENE (ug/L)



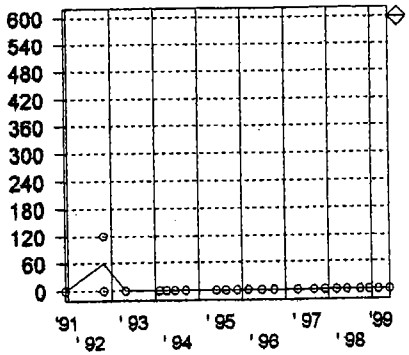
STYRENE (ug/L)



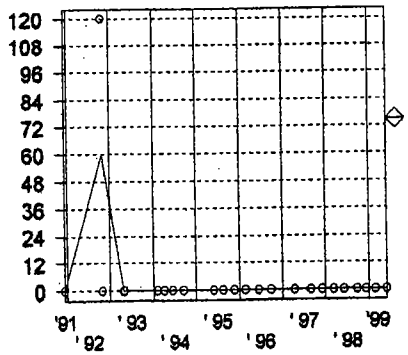
1,3-DICHLOROBENZENE (ug/L)



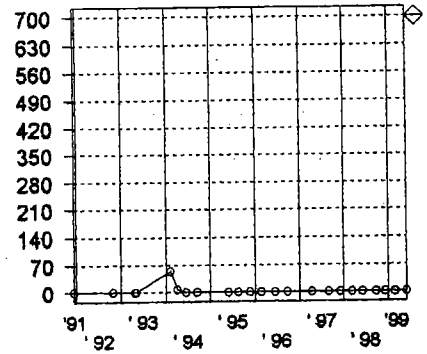
1,2-DICHLOROBENZENE (ug/L)



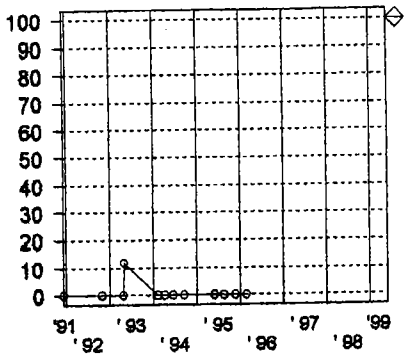
1,4 DICHLOROBENZENE (ug/L)



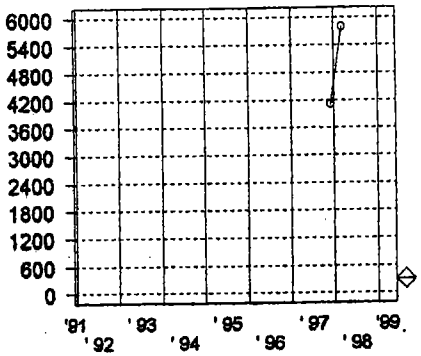
ACETONE (ug/L)



BUTYLBENZYLPHTHALATE (ug/L)



Iron (ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 05/29/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

	LAB	Manganese	Sodium	Depth to Water							NOTES
Units:	-	ug/L	ug/L	Feet							
NJDEP Crtria:	NA	50	50000	NA							
12/10/91	ENV PRO	-	-	-							-
10/26/92	ENV PRO	-	-	-							-
10/26/92D	ENV PRO	-	-	-							-
04/21/93	21st CEN	-	-	-							-
04/28/93	21st CEN	-	-	-							BNA Only
02/03/94	21st CEN	-	-	-							-
03/31/94	21st CEN	-	-	-							-
06/14/94	21st CEN	-	-	-							-
09/15/94	21st CEN	-	-	-							-
05/25/95	EMSL	-	-	-							-
08/15/95	EMSL	-	-	-							-
11/21/95	EMSL	-	-	-							-
02/20/96	EMSL	-	-	-							-
06/13/96	FMETL	-	-	-							-
09/27/96	FMETL	-	-	-							-
04/11/97	FMETL	-	-	3.80							V,Pb
08/28/97	FMETL	-	-	4.80							V,Pb
12/02/97	FMETL	93	76000	3.90							V,S,P,M
03/04/98	FMETL	108	48900	3.51							V,S,P,M
06/01/98	FMETL	-	-	4.06							V,Pb
09/24/98	FMETL	-	-	5.21							V,Pb
12/09/98	FMETL	-	-	4.90							V,Pb
02/24/99	FMETL	-	-	3.75							V,Pb
05/29/99	FMETL	-	-	4.20							V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 05/29/99

NOTES:

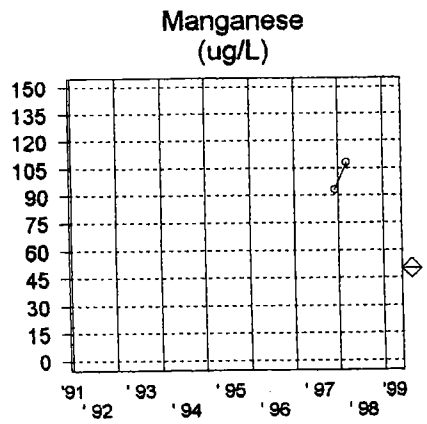
Page 4 of 4.

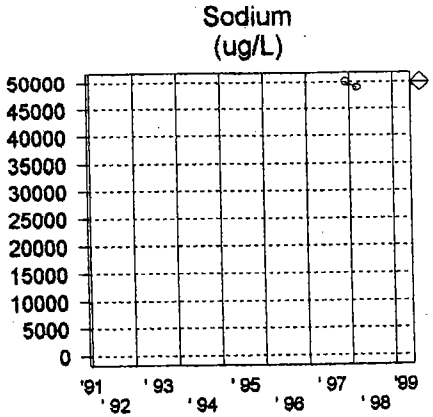
FORT MONMOUTH

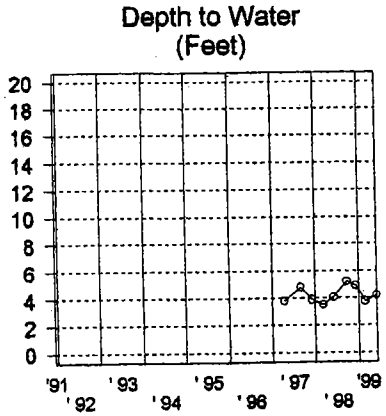
GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 05/29/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	BUTYLBENZYLPHTH-ALATE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	10	2	1	NA	NA	1000	700	700	100	
12/10/91	ENV PRO	ND	7	3	ND	ND	ND	ND	ND	ND	-
10/26/92	ENV PRO	11	23	ND	3	ND	ND	ND	ND	ND	-
04/21/93	ENV PRO	ND	ND	ND	2.0	ND	ND	ND	2.5	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	18	BNA Only
02/03/94	21st CEN	260	4.0	19	43	7.0	55	7.4	ND	ND	-
03/31/94	21st CEN	ND	17	ND	2.5	11	ND	ND	140	ND	-
06/14/94	21st CEN	ND	ND	ND	3.0	11	ND	1.1	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	5.5	4.1	1.8	1.2	ND	ND	-
05/25/95	EMSL	ND	0.9	ND	6.5	3.1	ND	0.8	ND	ND	-
08/15/95	EMSL	5.6	1.3	ND	5.3	2.5	ND	ND	ND	ND	-
11/21/95	EMSL	ND	0.6	ND	3.6	1.6	ND	ND	ND	ND	-
02/20/96	EMSL	ND	2.0	ND	4.2	2	ND	ND	ND	ND	-
06/13/96	FMETL	ND	ND	-	-	-	ND	ND	ND	ND	-
09/27/96	FMETL	1.2	ND	-	-	-	ND	ND	ND	ND	-
04/11/97	FMETL	10.7	ND	-	-	-	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	ND	-	-	-	ND	ND	ND	ND	V,Pb
12/02/97	FMETL	20	ND	-	-	-	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	8.0	ND	-	-	-	ND	ND	ND	ND	V,S,P,M
06/01/98	FMETL	1.4	ND	-	-	-	ND	ND	ND	ND	V,Pb
09/24/98	FMETL	ND	ND	-	-	-	ND	ND	ND	ND	V,Pb
12/09/98	FMETL	ND	ND	-	-	-	ND	ND	ND	ND	V,Pb
02/24/99	FMETL	ND	ND	-	-	-	ND	ND	ND	ND	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 05/29/99

NOTES:

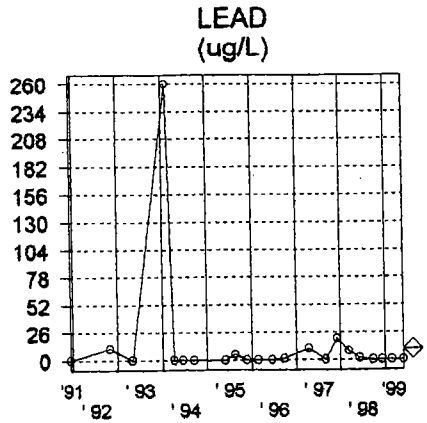
Page 1 of 2.

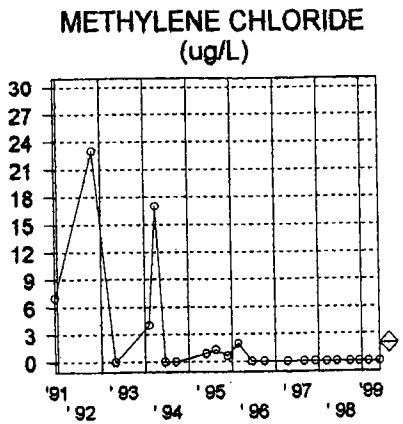
FORT MONMOUTH

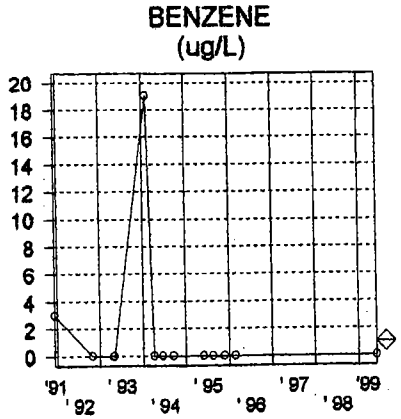
GW MONITORING
Bldg. 2567
Table / Graph A

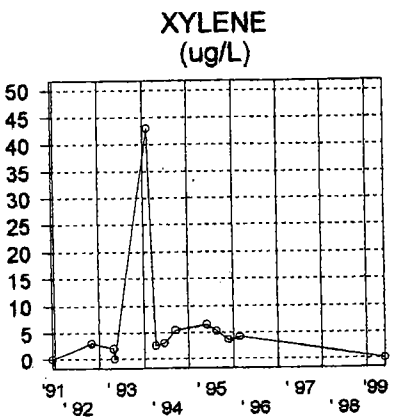
Well 2 of 5

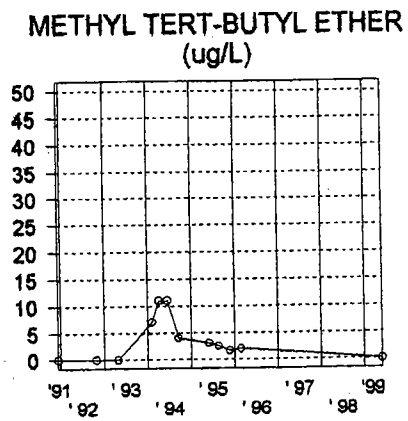
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

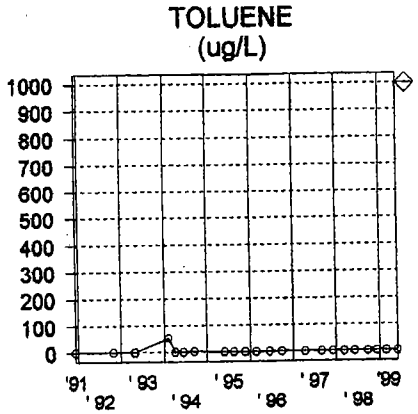


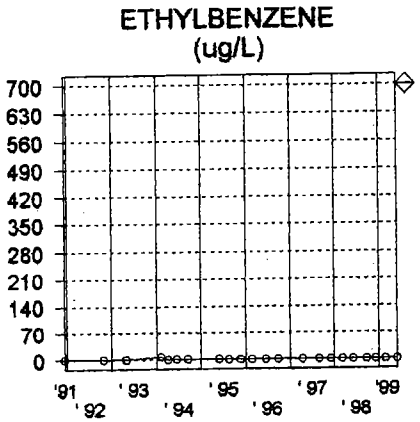


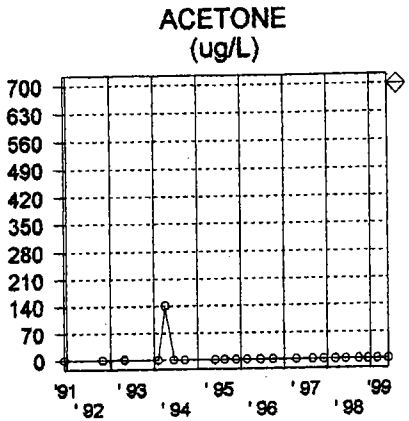


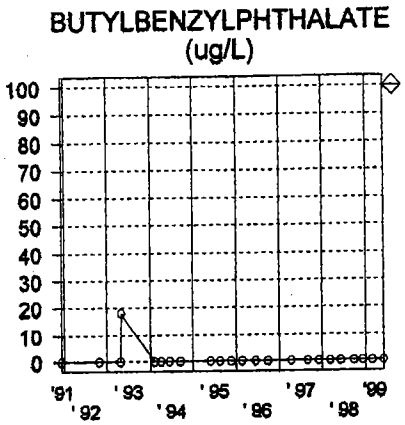












SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 05/29/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 2 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

	LAB	NAPTH-ALENE	CARBON DISULFIDE	ISOPRO-PYL-BENZENE	N-PRO-PYL-BENZENE	1,3,5-TRI-METHYL-BENZENE	Iron	Manganese	Sodium	Depth to Water	NOTES
Units:	-	ug/L	ug/L	ug/l	ug/l	ug/l	ug/L	ug/L	ug/L	Feet	
NJDEP Crtria:	NA	300	NA	NA	NA	NA	300	50	50000	NA	
12/10/91	ENV PRO	ND	ND	ND	ND	ND	-	-	-	-	-
10/26/92	ENV PRO	ND	ND	ND	ND	ND	-	-	-	-	-
04/21/93	ENV PRO	ND	ND	ND	ND	ND	-	-	-	-	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	BNA Only
02/03/94	21st CEN	ND	3.1	ND	ND	ND	-	-	-	-	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
05/25/95	EMSL	11	ND	1.1	1.3	1.0	-	-	-	-	-
08/15/95	EMSL	11	ND	1.1	1.3	1.0	-	-	-	-	-
11/21/95	EMSL	7.3	ND	1.0	1.1	0.6	-	-	-	-	-
02/20/96	EMSL	7.2	ND	1	1.1	0.8	-	-	-	-	-
06/13/96	FMETL	ND	-	-	-	-	-	-	-	-	-
09/27/96	FMETL	ND	-	-	-	-	-	-	-	-	-
04/11/97	FMETL	ND	-	-	-	-	-	-	-	3.40	V,Pb
08/28/97	FMETL	ND	-	-	-	-	-	-	-	4.30	V,Pb
12/02/97	FMETL	4.79	-	-	-	-	16300	272	58700	3.45	V,S,P,M
03/04/98	FMETL	1.67	-	-	-	-	12400	100	26600	2.92	V,S,P,M
06/01/98	FMETL	-	-	-	-	-	-	-	-	3.59	V,Pb
09/24/98	FMETL	-	-	-	-	-	-	-	-	4.73	V,Pb
12/09/98	FMETL	-	-	-	-	-	-	-	-	3.42	V,Pb
02/24/99	FMETL	-	-	-	-	-	-	-	-	3.38	V,Pb
05/29/99	FMETL	-	-	-	-	-	-	-	-	3.83	V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 05/29/99

NOTES:

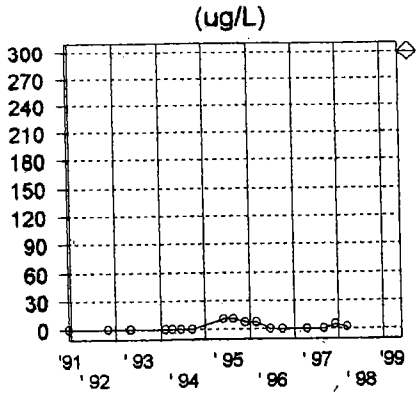
Page 2 of 2.

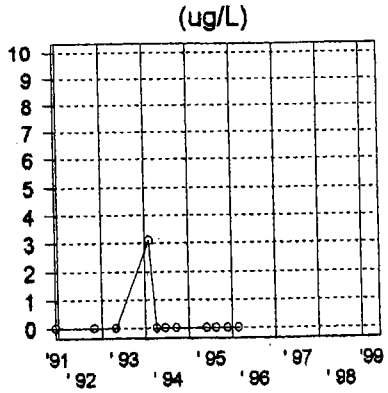
FORT MONMOUTH

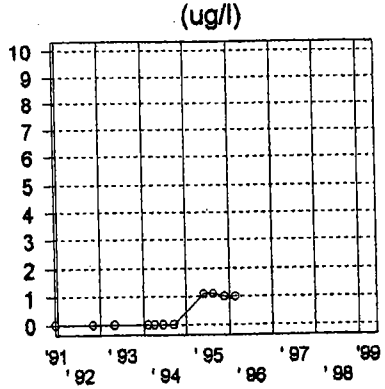
GW MONITORING
Bldg. 2567
Table / Graph A

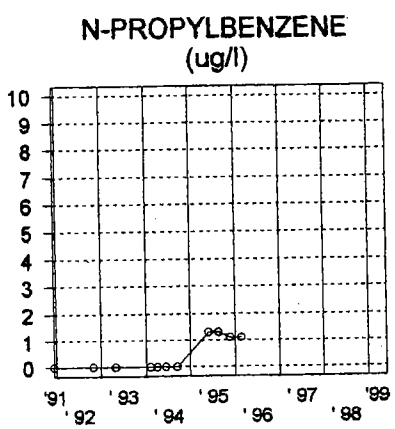
Well 2 of 5

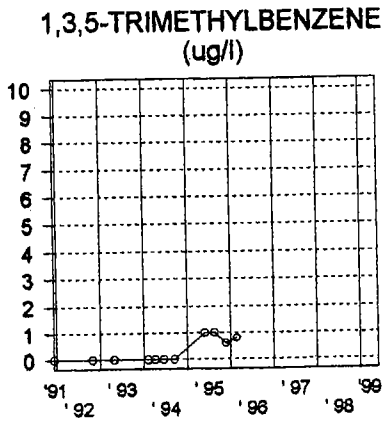
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

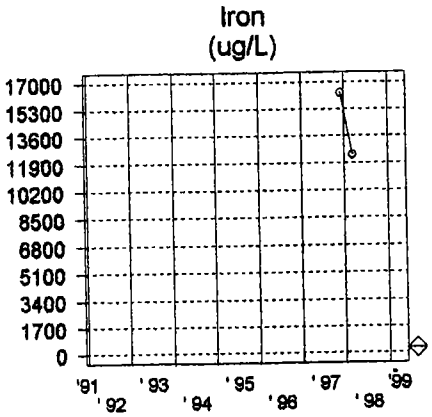


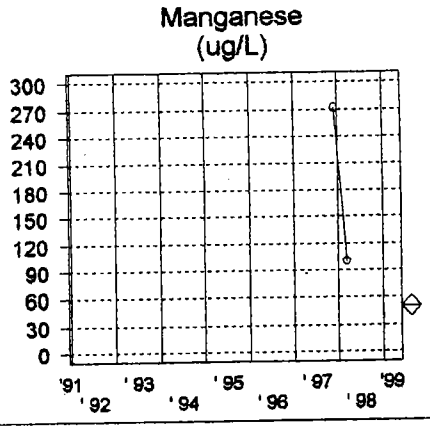


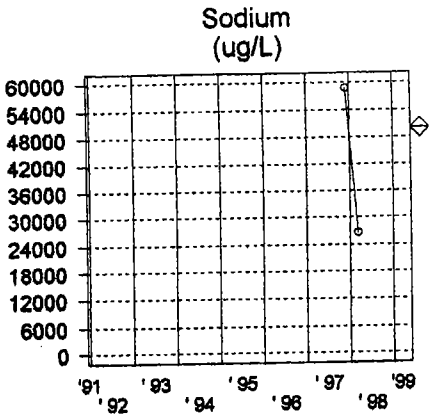


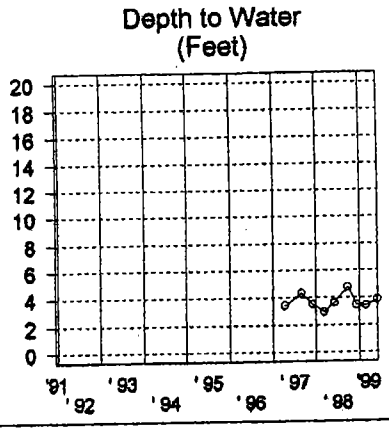












SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 05/29/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 2 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	10	2	1	NA	NA	NA	1000	700	700	
12/10/91	ENV PRO	ND	240	110	200	ND	69	ND	ND	ND	-
10/26/92	ENV PRO	5	24	ND	3	ND	ND	ND	ND	1	-
04/21/93	ENV PRO	60	ND	180	74.2	ND	27	15	ND	7.7	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/94	21st CEN	41	4.4	19	65	ND	9.1	43	7.0	ND	-
03/31/94	21st CEN	25	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/94	21st CEN	3	ND	15	3.4	ND	100	ND	5.4	ND	-
09/15/94	21st CEN	ND	ND	ND	1.4	ND	61	ND	ND	ND	-
05/25/95	EMSL	2.7	21	94	190	ND	400	3.8	6.3	ND	-
08/15/95	EMSL	ND	25	89	360	ND	670	ND	8.4	ND	-
11/21/95	EMSL	ND	18	35	91	46	360	ND	ND	ND	-
02/20/96	EMSL	6	ND	40	70	43	250	1	4.5	ND	-
06/13/96	FMETL	0.7	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	6.2	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	1.8	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	25	ND	ND	940	62	ND	ND	ND	V,Pb
12/02/97	FMETL	10	ND	4.31	ND	ND	188	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	19	8.6	ND	102	ND	ND	ND	V,S,P,M
06/19/98	FMETL	ND	ND	4.68	ND	27.52	81.82	ND	ND	ND	V,Pb
09/25/98	FMETL	ND	ND	5.96	3.62	ND	27.27	ND	ND	ND	V,Pb
12/16/98	FMETL	ND	ND	15.45	3.67	19.38	20.54	ND	ND	ND	V,Pb
02/24/99	FMETL	1.0	ND	1.03	ND	ND	3.3	ND	ND	ND	V,Pb
05/29/99	FMETL	ND	ND	1.70	1.29	ND	26.34	ND	1.04	ND	V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 05/29/99

NOTES:

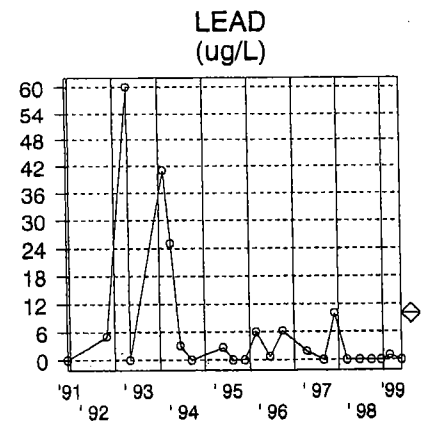
Page 1 of 2.

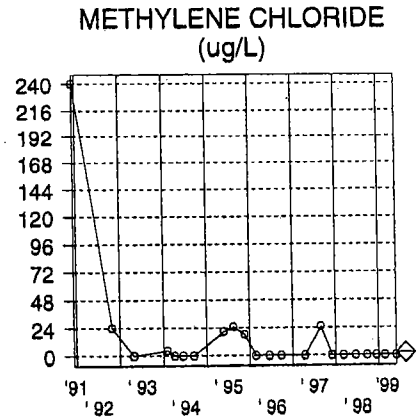
FORT MONMOUTH

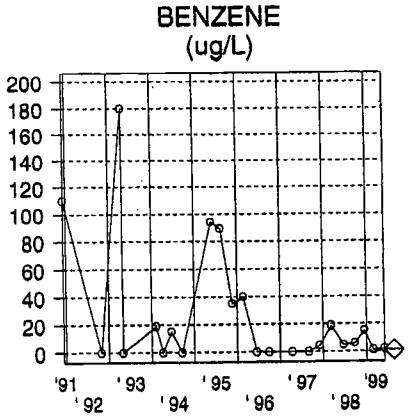
GW MONITORING
Bldg. 2567
Table / Graph A

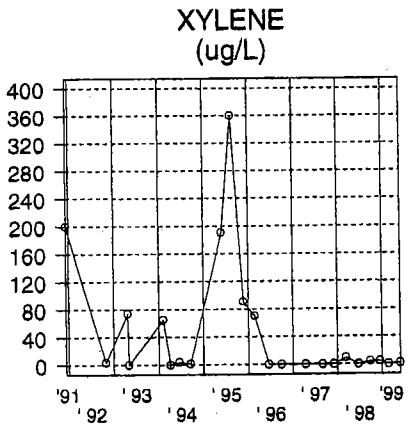
Well 3 of 5

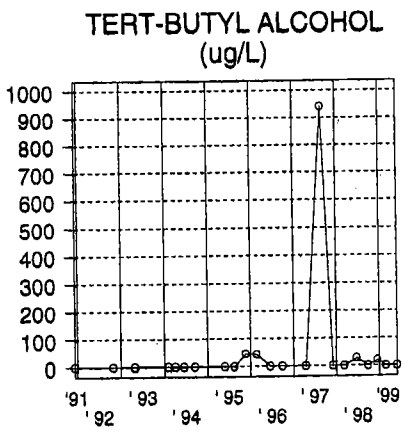
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

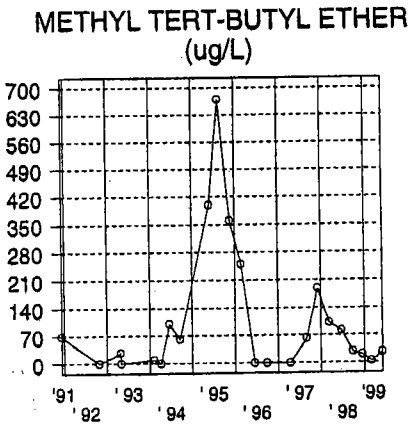


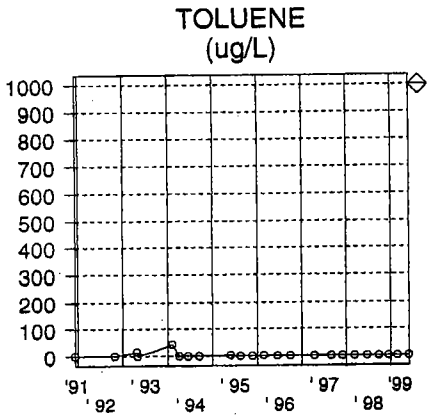


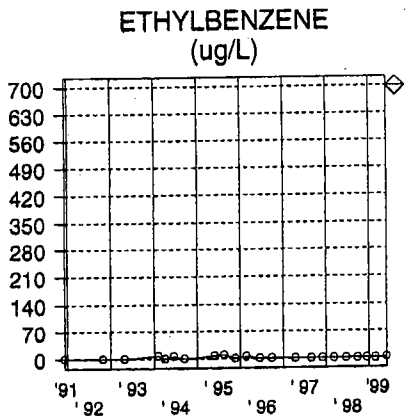


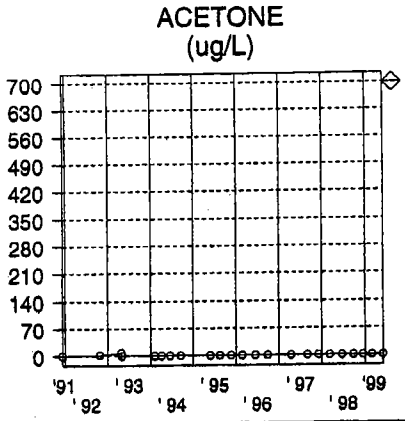












SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 05/29/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

	LAB	BUTYLBENZYLPHTHALATE	NAPTHALENE	BIS(2-ETHYLHEXYL)-PHTHALAT	1,3,5-TRIMETHYLBENZENE	1,2,4-TRIMETHYLBENZENE	Iron	Manganese	Sodium	Depth to Water	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	Feet	
NJDEP Crtria:	NA	100	300	30	NA	NA	300	50	50000	NA	
12/10/91	ENV PRO	ND	ND	ND	ND	ND	-	-	-	-	-
10/26/92	ENV PRO	ND	ND	ND	ND	ND	-	-	-	-	-
04/21/93	ENV PRO	ND	ND	ND	ND	ND	-	-	-	-	-
04/28/93	21st CEN	12	1.2	2.8	ND	ND	-	-	-	-	BNA Only
02/03/94	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
05/25/95	EMSL	ND	ND	ND	12	8.6	-	-	-	-	-
08/15/95	EMSL	ND	21	ND	38	33	-	-	-	-	-
11/21/95	EMSL	ND	6.6	ND	7.7	ND	-	-	-	-	-
02/20/96	EMSL	ND	5.4	ND	4.7	1.4	-	-	-	-	-
06/13/96	FMETL	ND	ND	-	-	-	-	-	-	-	-
09/27/96	FMETL	ND	ND	-	-	-	-	-	-	-	-
04/11/97	FMETL	ND	ND	-	-	-	-	-	-	3.15	V,Pb
08/28/97	FMETL	ND	ND	-	-	-	-	-	-	4.00	V,Pb
12/02/97	FMETL	ND	1.92	-	-	-	5340	56.6	26900	3.10	V,S,P,M
03/04/98	FMETL	ND	1.67	-	-	-	13900	144	39600	2.48	V,S,P,M
06/19/98	FMETL	ND	-	-	-	-	-	-	-	3.99	V,Pb
09/25/98	FMETL	ND	-	-	-	-	-	-	-	4.56	V,Pb
12/16/98	FMETL	ND	-	-	-	-	-	-	-	4.25	V,Pb
02/24/99	FMETL	ND	-	-	-	-	-	-	-	3.16	V,Pb
05/29/99	FMETL	-	-	-	-	-	-	-	-	3.55	V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 05/29/99

NOTES:

Page 2 of 2.

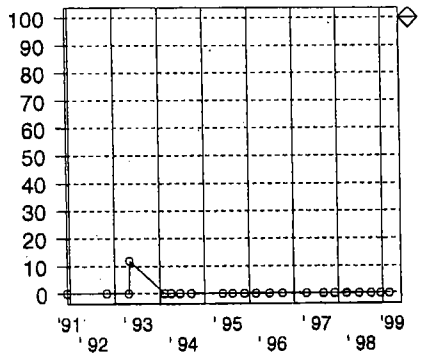
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

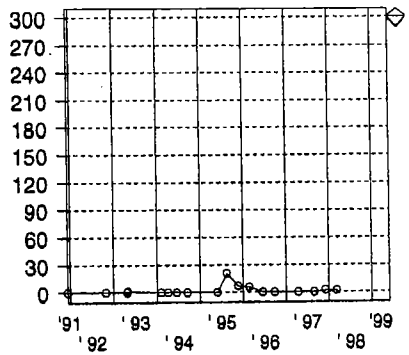
Well 3 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

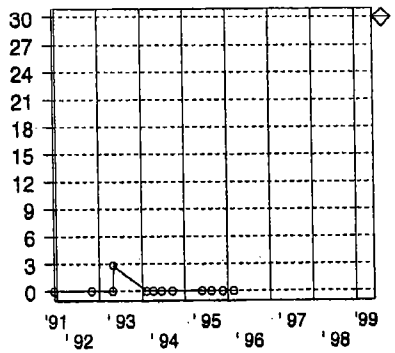
BUTYLBENZYLPHTHALATE
(ug/L)



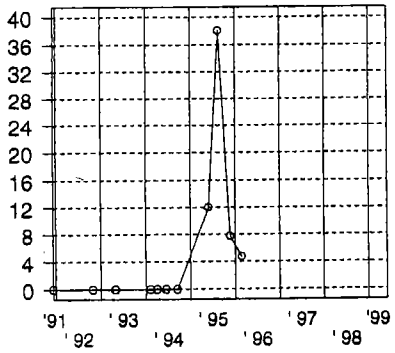
NAPHTHALENE
(ug/L)



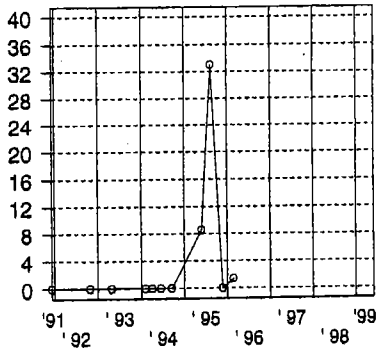
BIS(2-ETHYLHEXYL)PHTHALATE
(ug/L)



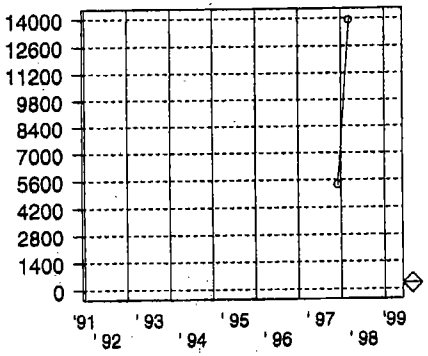
1,3,5-TRIMETHYLBENZENE
(ug/l)



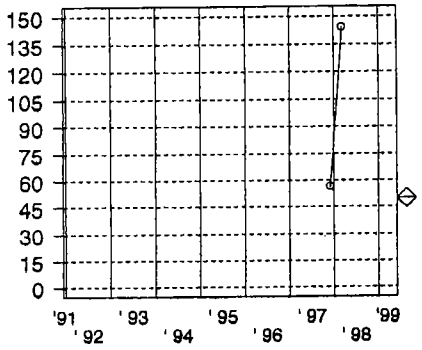
1,2,4-TRIMETHYLBENZENE
(ug/l)



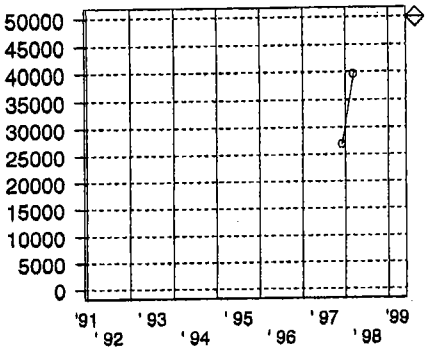
Iron
(ug/L)



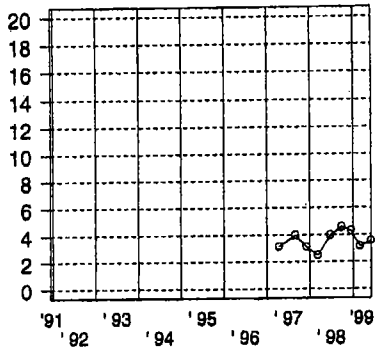
Manganese
(ug/L)



Sodium
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 05/29/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TOLUENE	ETHYL-BENZENE	Iron	Manganese	Sodium	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	10	2	1	NA	1000	700	300	50	50000	
12/10/91	EMSL	5	ND	ND	ND	ND	ND	-	-	-	-
10/26/92	ENV PRO	ND	27	ND	ND	ND	ND	-	-	-	-
04/21/93	ENV PRO	ND	ND	ND	ND	ND	ND	-	-	-	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	BNA Only
02/03/94	21st CEN	ND	5.0	14	60	56	8.9	-	-	-	-
03/31/94	21st CEN	ND	2.3	ND	ND	ND	ND	-	-	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
05/25/95	EMSL	ND	1.0	ND	ND	ND	ND	-	-	-	-
08/15/95	EMSL	2.6	1.3	ND	ND	ND	ND	-	-	-	-
11/21/95	EMSL	ND	0.6	ND	ND	ND	ND	-	-	-	-
02/20/96	EMSL	ND	1.2	ND	ND	ND	ND	-	-	-	-
06/13/96	FMETL	1.8	ND	ND	ND	ND	ND	-	-	-	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	-
04/11/97	FMETL	2.3	ND	ND	ND	ND	ND	-	-	-	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
12/02/97	FMETL	9.0	ND	ND	ND	ND	ND	3590	90	15600	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	4200	79	12600	V,S,P,M
06/19/98	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
12/12/98	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 05/29/99

NOTES:

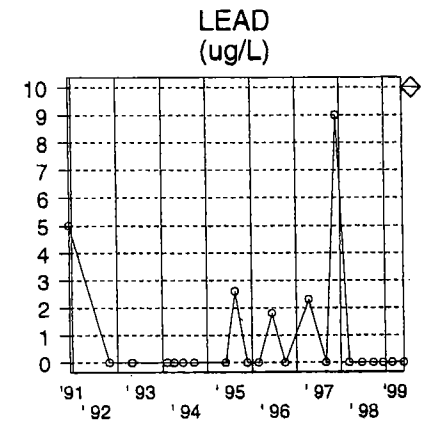
Page 1 of 2.

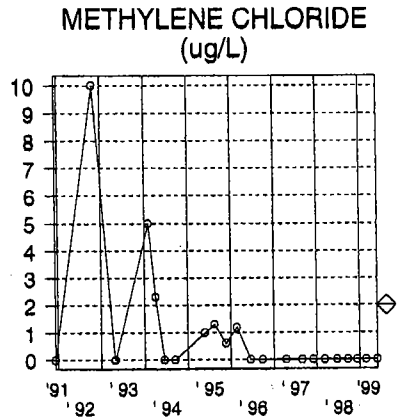
FORT MONMOUTH

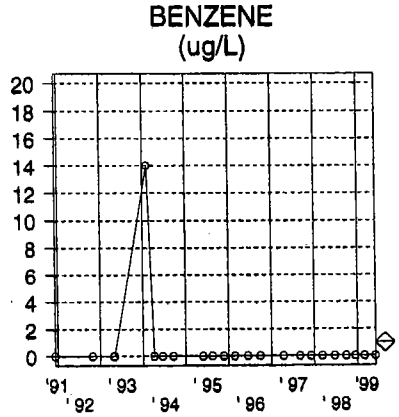
GW MONITORING
Bldg. 2567
Table / Graph A

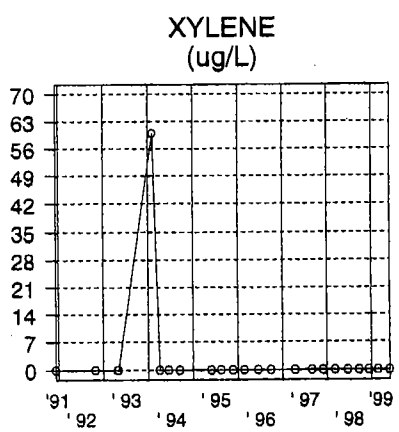
Well 4 of 5

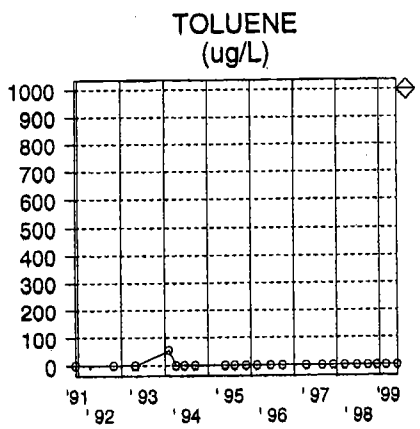
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

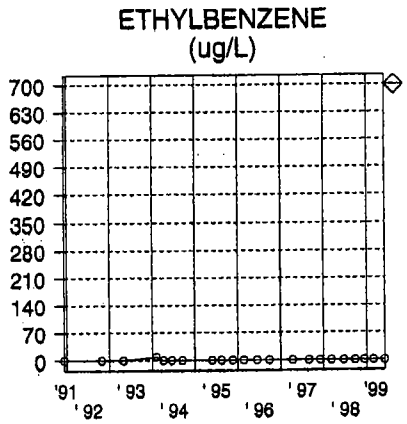


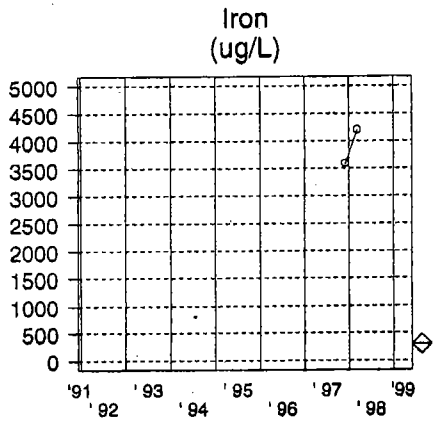


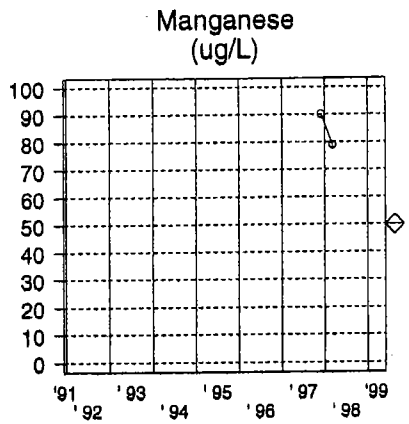


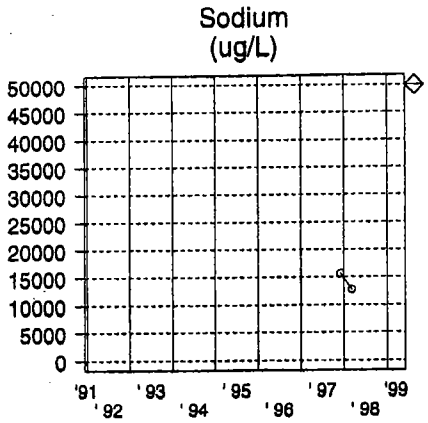












SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 05/29/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 4 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

	LAB	Depth to Water									NOTES
Units:	-	Feet									
NJDEP Crtria:	NA	NA									
12/10/91	EMSL	-									-
10/26/92	ENV PRO	-									-
04/21/93	ENV PRO	-									-
04/28/93	21st CEN	-									BNA Only
02/03/94	21st CEN	-									-
03/31/94	21st CEN	-									-
06/14/94	21st CEN	-									-
09/15/94	21st CEN	-									-
05/25/95	EMSL	-									-
08/15/95	EMSL	-									-
11/21/95	EMSL	-									-
02/20/96	EMSL	-									-
06/13/96	FMETL	-									-
09/27/96	FMETL	-									-
04/11/97	FMETL	2.55									V,Pb
08/28/97	FMETL	3.20									V,Pb
12/02/97	FMETL	2.45									V,S,P,M
03/04/98	FMETL	2.11									V,S,P,M
06/19/98	FMETL	2.33									V,Pb
09/24/98	FMETL	3.55									V,Pb
12/12/98	FMETL	3.11									V,Pb
02/24/99	FMETL	2.44									V,Pb
05/29/99	FMETL	2.76									V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 05/29/99

NOTES:

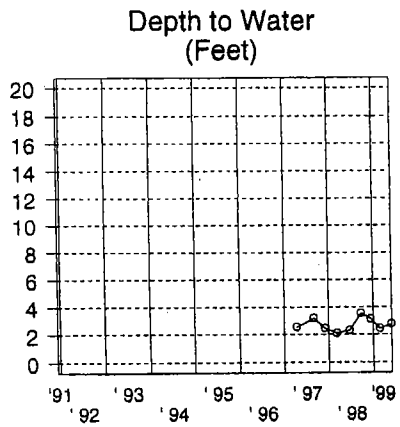
Page 2 of 2.

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 4 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 05/29/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 4 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	Iron	Manganese	Sodium	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				
NJDEP Crtria:	NA	10	2	300	50	50000	NA				
05/25/95	EMSL	4.0	1.2	-	-	-	-				-
08/15/95	EMSL	ND	1.2	-	-	-	-				-
11/21/95	EMSL	ND	ND	-	-	-	-				-
02/20/96	EMSL	ND	0.8	-	-	-	-				-
09/27/96	FMETL	ND	ND	-	-	-	-				-
04/11/97	FMETL	2.7	ND	-	-	-	7.20				V,Pb
08/28/97	FMETL	ND	ND	-	-	-	7.50				V,Pb
12/02/97	FMETL	7.0	ND	19200	100	10500	7.20				V,S,P,M
03/04/98	FMETL	ND	ND	16400	56	9100	7.30				V,S,P,M
06/01/98	FMETL	ND	ND	-	-	-	7.55				V,Pb
09/25/98	FMETL	ND	ND	-	-	-	7.59				V,Pb
12/16/98	FMETL	ND	ND	-	-	-	7.34				V,Pb
02/24/99	FMETL	ND	ND	-	-	-	8.16				V,Pb
06/08/99	FMETL	ND	ND	-	-	-	7.33				V,Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/95 - 06/08/99

NOTES:

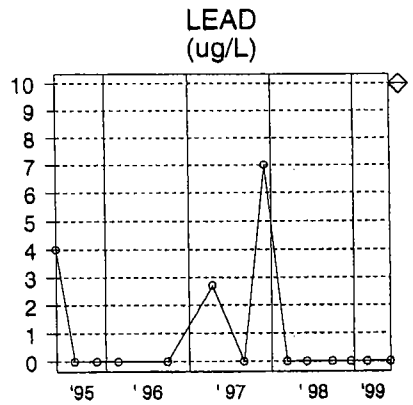
Page 1 of 1.

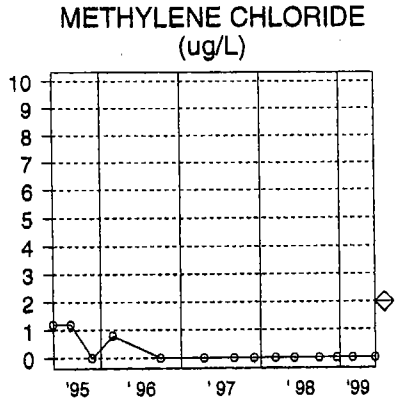
FORT MONMOUTH

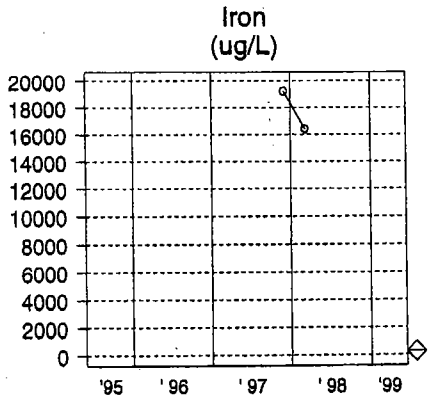
GW MONITORING
Bldg. 2567
Table / Graph A

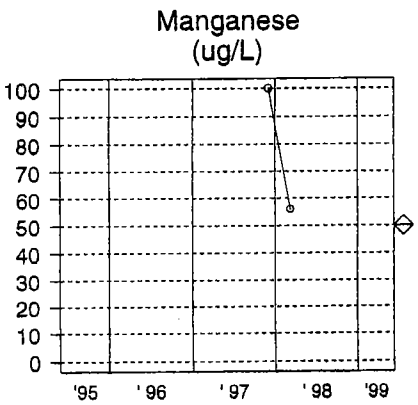
Well 5 of 5

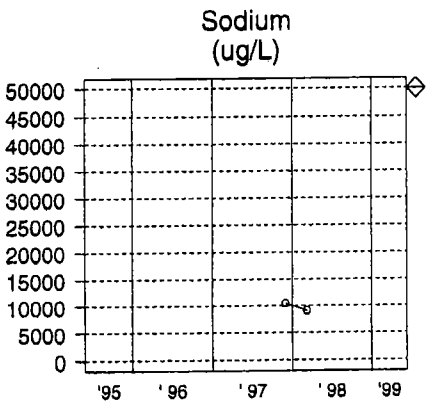
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

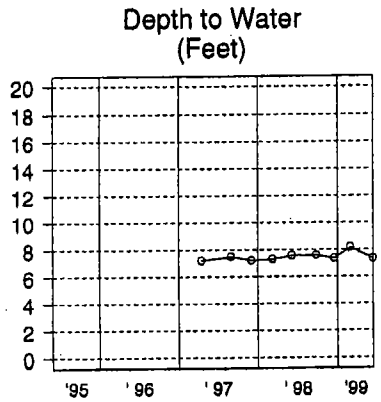












SOURCE: 2567MW05

Sampling Dates:
05/25/95 - 06/08/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 5 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

07-07-1999 c:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4635.03	2567MW01	29-26925	07/21/99
4635.04	2567MW02	29-26926	07/21/99
4635.05	2567MW03	29-26947	07/21/99
4635.06	2567MW04	29-26948	07/21/99
4635.07	2567MW05	29-31783	07/21/99

NJDEP Laboratory Certification # 13461

9/28/99

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Sampling

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: C. Appleby
Phone #: X26224
(X)DERA ( )OMA ( )Other:

Project No:
Location: 2567 MWs 3rd Qrtr '99

Samplers Name / Company : Corey McCormack, TVS

Analysis Parameters: VOCs, Pb, Hrs Read

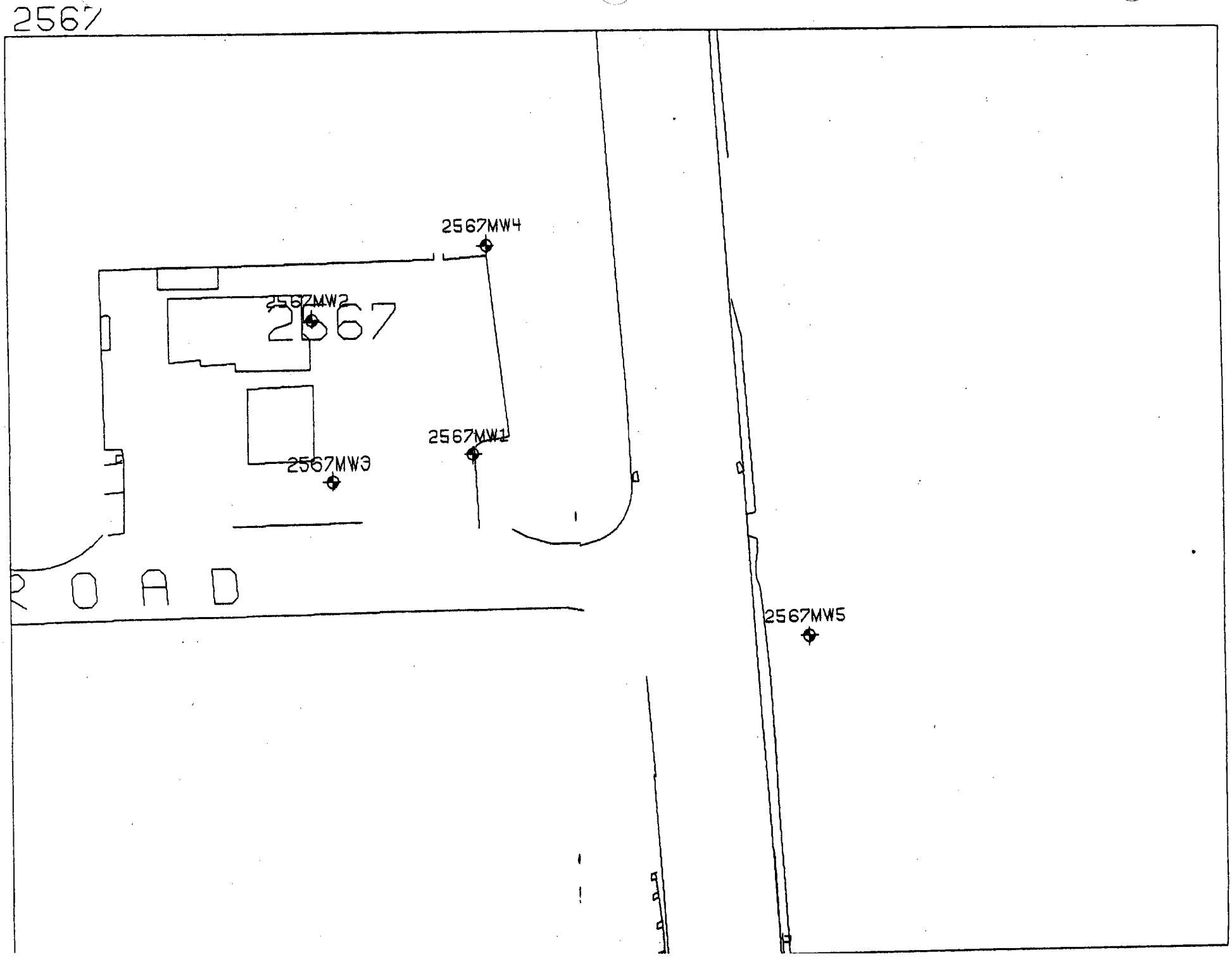
Comments: HCL/HNO3 / 4°C

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOCs	Pb						Hrs Read	Remarks / Preservation Method
4625.01	Trip	7/21/99	0741	AQ	2	✓							—	
.02	Field Blank		1200		3	✓	✓						—	
.03	2567 MW01		1205			✓	✓						0.0	29-26925
.04	2567 MW02		1208			✓	✓						0.0	29-26926
.05 *	2567 MW03		1215			✓	✓						0.0	29-26947
.06	2567 MW04		1220			✓	✓						0.0	29-26948
.07	2567 MW05		1355			✓	✓						0.0	29-31783
.08	Dupe		—			✓	✓						—	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	7/21/99 1415	[illegible]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified
Turnaround time: (X)Standard 4 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: Tide: N/A


2567
2567MW4
2567MW2
2567
2567MW1
2567MW3
ROAD
2567MW5

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 07/21/99
WEATHER: Overcast, warm.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 35.26 ft
DEPTH TO WATER: 5.48 ft
DEPTH OF WELL: 13.10 ft
HEIGHT OF WATER: 7.62 ft
(7.62) X .65 X 3 = 14.85
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 11:00
pH 7.18 su
DISSOLVED O_2 6.71 PPM
TEMP 13.0 °C
SPECIFIC CONDUCTIVITY 495 us/cm

PURGE END TIME: 12:05
pH 7.16 su
DISSOLVED O_2 3.11 PPM
TEMP 12.5 °C
SPECIFIC CONDUCTIVITY 494 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 6.23 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 15 gal

pH 7.17 su
DISSOLVED O_2 3.07 PPM
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 495 us/cm

COMMENTS: No phases.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 07/21/99
WEATHER: Overcast, warm.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 35.26 ft
DEPTH TO WATER: 5.03 ft
DEPTH OF WELL: 12.20 ft
HEIGHT OF WATER: 7.17 ft
(7.17) X .65 X 3 = 13.98
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 11:07
pH 6.67 su
DISSOLVED O_2 6.64 PPM
TEMP 12.9 °C
SPECIFIC CONDUCTIVITY 366 us/cm

PURGE END TIME: 12:08
pH 6.64 su
DISSOLVED O_2 2.81 PPM
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 365 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 5.51 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

pH 6.61 su
DISSOLVED O_2 2.77 PPM
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 365 us/cm

COMMENTS: No phases.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 07/21/99
WEATHER: Overcast, warm.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 33.88 ft
DEPTH TO WATER: 4.85 ft
DEPTH OF WELL: 12.50 ft
HEIGHT OF WATER: 7.65 ft
(7.65) X .65 X 3 = 14.91
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 11:10
pH 6.98 su
DISSOLVED O_2 6.40 PPM
TEMP 13.0 °C
SPECIFIC CONDUCTIVITY 289 us/cm

PURGE END TIME: 12:15
pH 6.98 su
DISSOLVED O_2 3.34 PPM
TEMP 12.6 °C
SPECIFIC CONDUCTIVITY 290 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 7.51 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 15 gal

pH 6.97 su
DISSOLVED O_2 3.31 PPM
TEMP 12.5 °C
SPECIFIC CONDUCTIVITY 289 us/cm

COMMENTS: Odor. DUP. Here. No phases.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 07/21/99
WEATHER: Overcast, warm.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 33.51 ft
DEPTH TO WATER: 3.98 ft
DEPTH OF WELL: 11.66 ft
HEIGHT OF WATER: 7.68 ft
(7.68) X .65 X 3 = 14.97
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 11:15
pH 6.88 su
DISSOLVED O_2 6.51 PPM
TEMP 12.8 °C
SPECIFIC CONDUCTIVITY 187 us/cm

PURGE END TIME: 12:20
pH 6.85 su
DISSOLVED O_2 3.77 PPM
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 187 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.50 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 15 gal

pH 6.83 su
DISSOLVED O_2 3.74 PPM
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 186 us/cm

COMMENTS: No phases.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 07/21/99
WEATHER: Sunny, hot.
TIDE: N/A

ELEV. OF CASING SURVEY MARK: 34.99 ft
DEPTH TO WATER: 7.87 ft
DEPTH OF WELL: 14.75 ft
HEIGHT OF WATER: 6.88 ft
(6.88) X .65 X 3 = 13.41
GALLONS OF H2O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC
PURGE RATE: 0.23 GPM
Hnu READING: 0.0 PPM

PURGE START TIME: 12:58
pH 6.47 su
DISSOLVED O_2 7.71 PPM
TEMP 12.6 °C
SPECIFIC CONDUCTIVITY 167 us/cm.

PURGE END TIME: 13:55
pH 6.42 su
DISSOLVED O_2 4.21 PPM
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 167 us/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 8.06 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 13 gal

pH 6.40 su
DISSOLVED O_2 4.18 PPM
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 167 us/cm

COMMENTS: No phases.

Volatiles

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB004007.D	Sample Name	Vblk121
Operator	Skelton	Field ID	Vblk121
Date Acquired	28 Jul 1999 2:29 pm	Sample Multiplie	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

vblk121

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 4635 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Vblk121

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004007.D

Level: (low/med) LOW Date Received: 7/21/99

% Moisture: not dec. Date Analyzed: 7/28/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File VC000610.D
Operator Deinhardt
Date Acquired 21 Jul 1999 11:55 am

Sample Name vblk19
Field ID vblk19
Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Vblk19**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4635 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: vblk19

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000610.D

Level: (low/med) LOW Date Received: 7/21/99

% Moisture: not dec. _____ Date Analyzed: 7/21/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File: VA006866.D
Operator: Deinhardt
Date Acquired: 22 Jul 1999 9:48 am

Sample Name: vblk203
Field ID: vblk203
Sample Multiplie: 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

7/28/99 10:13

C:\HPCHEM\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

vblk203

Lab Name: FMETL Project LTM

NJDEP # 13461 Case No.: 4635 Location 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: vblk203

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA006866.D

Level: (low/med) LOW Date Received: 7/21/99

% Moisture: not dec. Date Analyzed: 7/22/99

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	10.00	16	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File: VA006870.D
Operator: Deinhardt
Date Acquired: 22 Jul 1999 12:36 pm

Sample Name: 4635.01
Field ID: Trip Blank
Sample Multiplie: 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

7/28/99 10:13

C:\HPCHEM\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Trip Blank

Lab Name: FMETL Project LTM

NJDEP # 13461 Case No.: 4635 Location 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4635.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA006870.D

Level: (low/med) LOW Date Received: 7/21/99

% Moisture: not dec. Date Analyzed: 7/22/99

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	9.99	15	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004025.D**
Operator **Skelton**
Date Acquired **29 Jul 1999 3:22 am**

Sample Name **4635.02**
Field ID **Field Blank**
Sample Multiplie **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

7/29/99 10:40

C:\Hpchem\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 4635 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4635.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004025.D

Level: (low/med) LOW Date Received: 7/21/99

% Moisture: not dec. _____ Date Analyzed: 7/29/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File: VC000630.D
Operator: Deinhardt
Date Acquired: 22 Jul 1999 2:37 am

Sample Name: 4635.03
Field ID: 2567MW01
Sample Multiplie: 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	9.82	331178	155.56 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.85	251133	3.33 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4635 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4635.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000630.D

Level: (low/med) LOW Date Received: 7/21/99

% Moisture: not dec. Date Analyzed: 7/22/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File: VC000631.D
Operator: Deinhardt
Date Acquired: 22 Jul 1999 3:18 am

Sample Name: 4635.04
Field ID: 2567MW02
Sample Multiplie: 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

7/28/99 9:59

C:\HPCHEM\CUSTRPT\VOLATILE\624FY99.CRT

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4635 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4635.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000631.D

Level: (low/med) LOW Date Received: 7/21/99

% Moisture: not dec. Date Analyzed: 7/22/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File: VC000632.D
Operator: Deinhardt
Date Acquired: 22 Jul 1999 3:59 am

Sample Name: 4635.05
Field ID: 2567MW03
Sample Multiplie: 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.82	672450	8.98 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

7/28/99 9:59

C:\HPCHEM\CUSTRPT\VOLATILE\624FY99.CRT

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4635 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4635.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000632.D

Level: (low/med) LOW Date Received: 7/21/99

% Moisture: not dec. Date Analyzed: 7/22/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 3

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.34	14	JN
2.	unknown	15.21	13	J
3. 000496-11-7	Indane	33.77	7	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VC000633.D**
Operator **Deinhardt**
Date Acquired **22 Jul 1999 4:40 am**

Sample Name **4635.06**
Field ID **2567MW04**
Sample Multiplie **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

7/28/99 9:59

C:\HPCHEM\CUSTRPT\VOLATILE\624FY99.CRT

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4635 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4635.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000633.D

Level: (low/med) LOW Date Received: 7/21/99

% Moisture: not dec. _____ Date Analyzed: 7/22/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File: VC000634.D
Operator: Deinhardt
Date Acquired: 22 Jul 1999 5:21 am

Sample Name: 4635.07
Field ID: 2567MW05
Sample Multiplie: 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW05**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4635 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4635.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000634.D

Level: (low/med) LOW Date Received: 7/21/99

% Moisture: not dec. Date Analyzed: 7/22/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VC000635.D**
Operator **Deinhardt**
Date Acquired **22 Jul 1999 6:02 am**

Sample Name **4635.08**
Field ID **Dupe**
Sample Multiplie **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.84	651813	9.14 ug/L	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

7/28/99 9:59

C:\HPCHEM\CUSTRPT\VOLATILE\624FY99.CRT

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4635 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4635.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000635.D

Level: (low/med) LOW Date Received: 7/21/99

% Moisture: not dec. Date Analyzed: 7/22/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 6

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.35	17	JN
2. 000109-66-0	Pentane	7.18	5	JN
3.	unknown	11.52	5	J
4. 004076-36-2	1H-Tetrazole, 5-methyl-	15.20	17	JN
5. 000110-82-7	Cyclohexane	17.46	5	JN
6. 000300-57-2	Benzene, 2-propenyl-	33.77	9	JN

Metals

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 07/22/99
Analysis Completed: 07/22/99

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4635.02-.08
Sample Received: 07/21/99
Analysis Start: 07/22/99
Analysis Completed: 07/22/99

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
4635.02	Field Blank	ND	10	0.8
4635.03	2567MW01	ND	10	0.8
4635.04	2567MW02	ND	10	0.8
4635.05	2567MW03	ND	10	0.8
4635.06	2567MW04	ND	10	0.8
4635.07	2567MW05	ND	10	0.8
4635.08	Dupe	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	METHY-LENE CHLORIDE	1,2-DI-CHLORO-ETHANE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TOLUENE	CHLORO-BENZENE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	10	2	2	1	NA	NA	NA	1000	4	
12/10/91	ENV PRO	4	240	55	2400	42	4400	2200	ND	ND	-
10/26/92	ENV PRO	ND	420	ND	2800	302	5400	1200	73	99	-
10/26/92D	ENV PRO	ND	130	ND	3200	57	7000	1500	ND	ND	-
04/21/93	21st CEN	70	16	ND	520	ND	470	890	ND	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/94	21st CEN	ND	26	ND	21	41	28	650	66	ND	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	22	10	ND	ND	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	120	88	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	600	56	ND	ND	-
05/25/95	EMSL	ND	1.5	ND	ND	ND	930	110	0.7	ND	-
08/15/95	EMSL	3.3	1.3	ND	ND	ND	930	29	ND	ND	-
11/21/95	EMSL	ND	36	ND	ND	ND	860	80	ND	ND	-
02/20/96	EMSL	4	2.1	ND	ND	ND	780	100	ND	ND	-
06/13/96	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	2.5	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	1.4	ND	ND	39.4	72.7	ND	240	1.3	ND	V,Pb
12/02/97	FMETL	7.0	ND	ND	ND	ND	357	20.3	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	560	37	ND	ND	V,S,P,M
06/01/98	FMETL	0.5	ND	ND	ND	ND	95.63	24.23	ND	ND	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	283	10.02	ND	ND	V,Pb
12/09/98	FMETL	ND	ND	ND	ND	ND	143.26	3.43	ND	ND	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	675	26.15	ND	ND	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	605.1	9.16	ND	ND	V,Pb
07/21/99	FMETL	ND	ND	ND	ND	ND	155.56	3.33	ND	ND	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 07/21/99

NOTES:

Page 4 of 4.

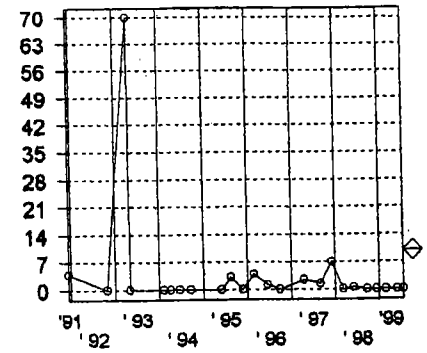
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

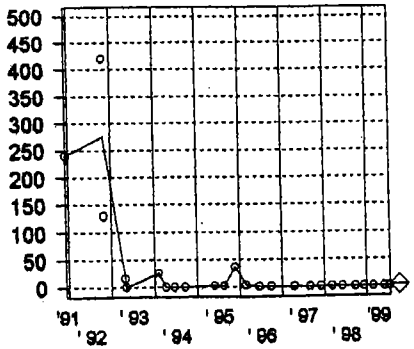
Well 1 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

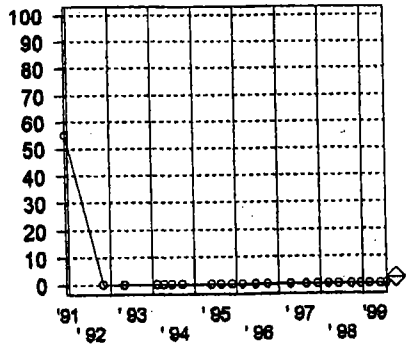
LEAD (ug/L)



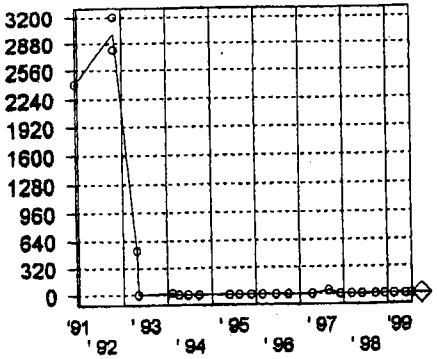
METHYLENE CHLORIDE (ug/L)



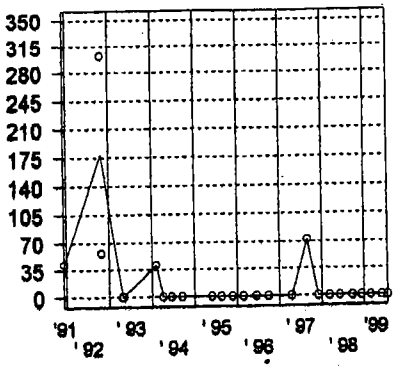
1,2-DICHLOROETHANE (ug/L)



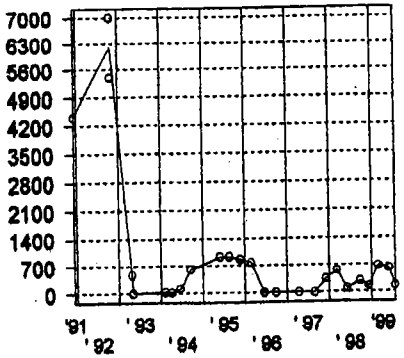
BENZENE (ug/L)



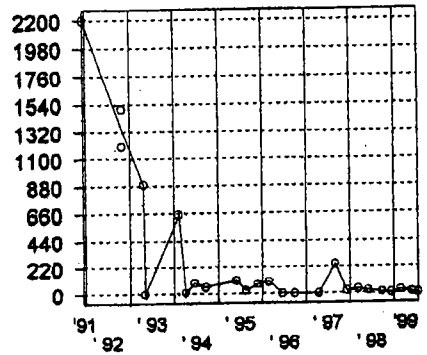
XYLENE (ug/L)



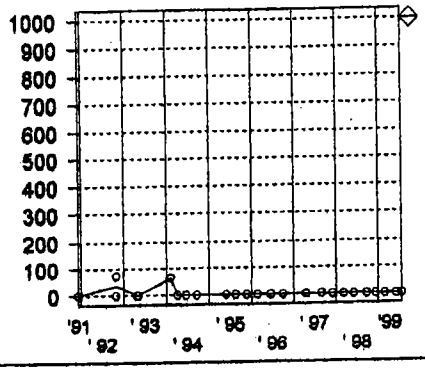
TERT-BUTYL ALCOHOL (ug/L)



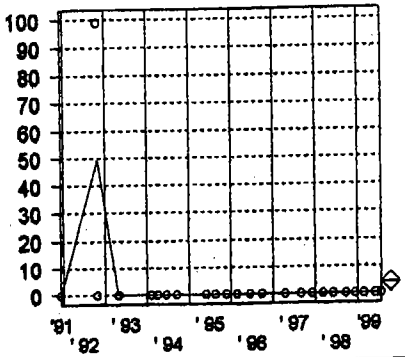
METHYL TERT-BUTYL ETHER (ug/L)



TOLUENE (ug/L)



CHLOROBENZENE (ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 07/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-27-1999 x:\mtech48\fm\2567\gw\2567.waf

	LAB	ETHYL-BENZENE	STYRENE	1,3-DI-CHLORO-BENZENE	1,2-DI-CHLORO-BENZENE	1,4-DI-CHLORO-BENZENE	Depth to Water	Iron	Manganese	Sodium	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	700	100	600	600	75	NA	300	50	50000	
12/10/91	ENV PRO	ND	ND	ND	ND	ND	-	-	-	-	-
10/26/92	ENV PRO	90	84	100	120	120	-	-	-	-	-
10/26/92D	ENV PRO	ND	ND	ND	ND	ND	-	-	-	-	-
04/21/93	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	BNA Only
02/03/94	21st CEN	16	ND	ND	ND	ND	-	-	-	-	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
05/25/95	EMSL	ND	ND	ND	ND	ND	-	-	-	-	-
08/15/95	EMSL	ND	ND	ND	ND	ND	-	-	-	-	-
11/21/95	EMSL	ND	ND	ND	ND	ND	-	-	-	-	-
02/20/96	EMSL	ND	ND	ND	ND	ND	-	-	-	-	-
06/13/96	FMETL	ND	ND	ND	ND	ND	-	-	-	-	-
09/27/96	FMETL	ND	ND	ND	ND	ND	-	-	-	-	-
04/11/97	FMETL	ND	ND	ND	ND	ND	3.80	-	-	-	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	4.80	-	-	-	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	3.90	4110	93	76000	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	3.51	5800	108	48900	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	ND	4.06	-	-	-	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	5.21	-	-	-	V,Pb
12/09/98	FMETL	ND	ND	ND	ND	ND	4.90	-	-	-	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	3.75	-	-	-	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	4.20	-	-	-	V,Pb
07/21/99	FMETL	ND	ND	ND	ND	ND	5.48	-	-	-	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 07/21/99

NOTES:

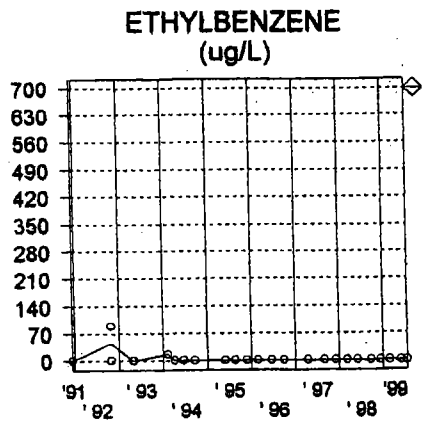
Page 2 of 2.

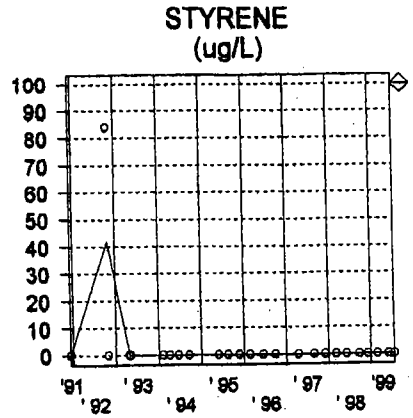
FORT MONMOUTH

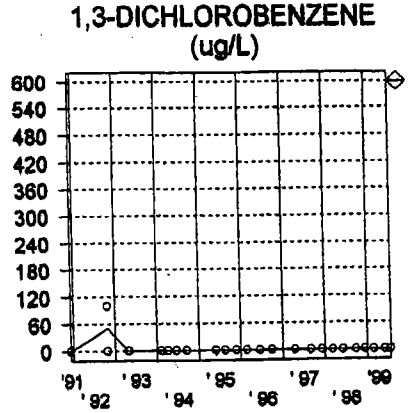
GW MONITORING
Bldg. 2567
Table / Graph A

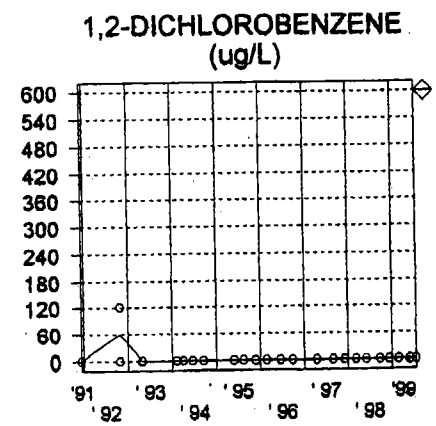
Well 1 of 5

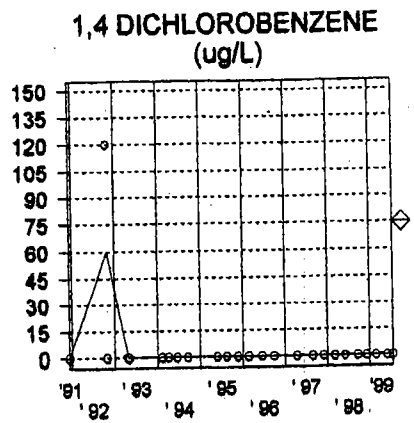
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

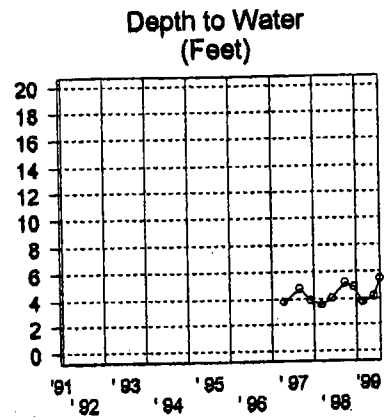


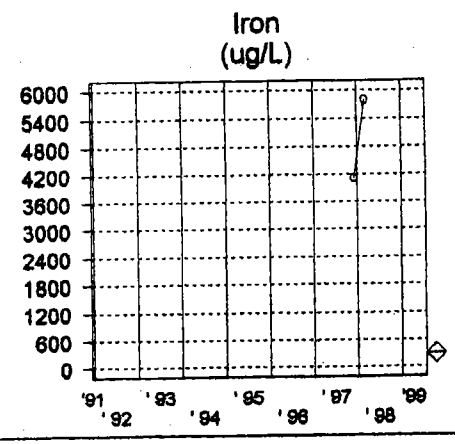


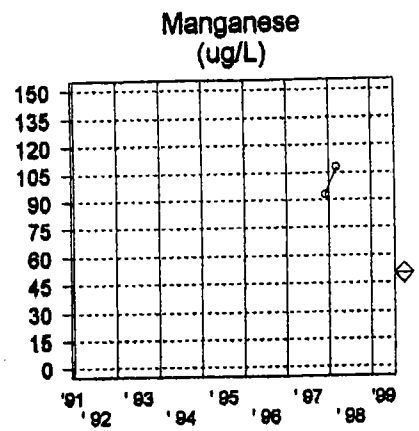


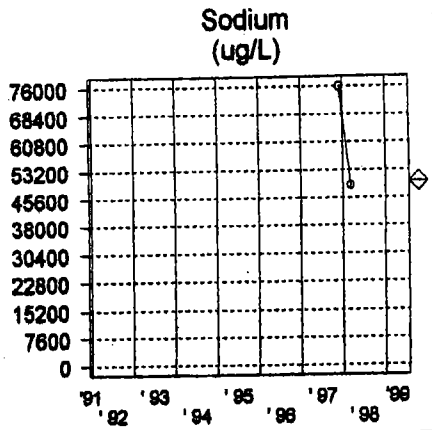












SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 07/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-27-1999 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	NAPTH-ALENE	Depth to Water	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet	
NJDEP Crtria:	NA	10	2	NA	NA	1000	700	700	300	NA	
12/10/91	ENV PRO	ND	7	ND	ND	ND	ND	ND	ND	-	-
10/26/92	ENV PRO	11	23	3	ND	ND	ND	ND	ND	-	-
04/21/93	ENV PRO	ND	ND	2.0	ND	ND	ND	2.5	ND	-	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	BNA Only
02/03/94	21st CEN	260	4.0	43	7.0	55	7.4	ND	ND	-	-
03/31/94	21st CEN	ND	17	2.5	11	ND	ND	140	ND	-	-
06/14/94	21st CEN	ND	ND	3.0	11	ND	1.1	ND	ND	-	-
09/15/94	21st CEN	ND	ND	5.5	4.1	1.8	1.2	ND	ND	-	-
05/25/95	EMSL	ND	0.9	6.5	3.1	ND	0.8	ND	11	-	-
08/15/95	EMSL	5.6	1.3	5.3	2.5	ND	ND	ND	11	-	-
11/21/95	EMSL	ND	0.6	3.6	1.6	ND	ND	ND	7.3	-	-
02/20/96	EMSL	ND	2.0	4.2	2	ND	ND	ND	7.2	-	-
06/13/96	FMETL	ND	ND	-	-	ND	ND	ND	ND	-	-
09/27/96	FMETL	1.2	ND	-	-	ND	ND	ND	ND	-	-
04/11/97	FMETL	10.7	ND	-	-	ND	ND	ND	ND	3.40	V,Pb
08/28/97	FMETL	ND	ND	-	-	ND	ND	ND	ND	4.30	V,Pb
12/02/97	FMETL	20	ND	-	-	ND	ND	ND	4.79	3.45	V,S,P,M
03/04/98	FMETL	8.0	ND	-	-	ND	ND	ND	1.67	2.92	V,S,P,M
06/01/98	FMETL	1.4	ND	-	-	ND	ND	ND	-	3.59	V,Pb
09/24/98	FMETL	ND	ND	-	-	ND	ND	ND	-	4.73	V,Pb
12/09/98	FMETL	ND	ND	-	-	ND	ND	ND	-	3.42	V,Pb
02/24/99	FMETL	ND	ND	-	-	ND	ND	ND	-	3.38	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	ND	ND	-	3.83	V,Pb
07/21/99	FMETL	ND	ND	ND	ND	ND	ND	ND	-	5.03	V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 07/21/99

NOTES:

Page 1 of 2.

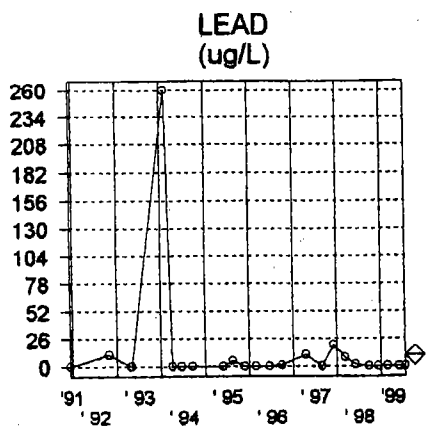
FORT MONMOUTH

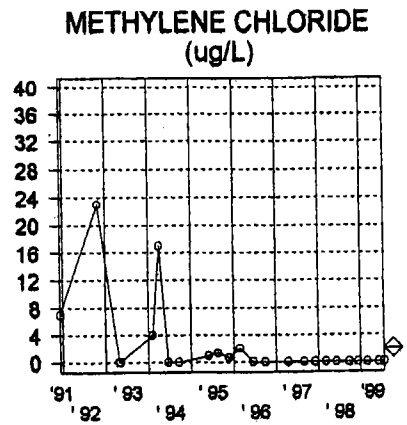
GW MONITORING
Bldg. 2567
Table / Graph A

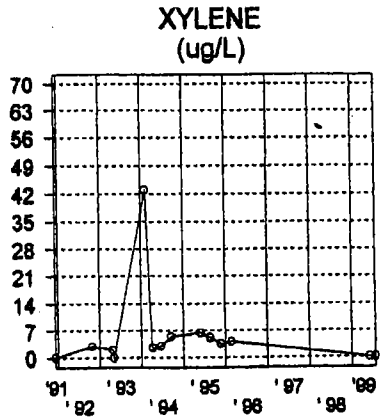
Well 2 of 5

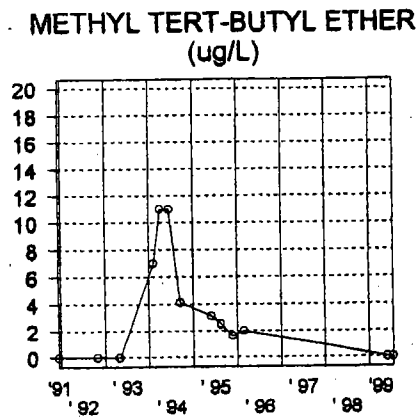
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

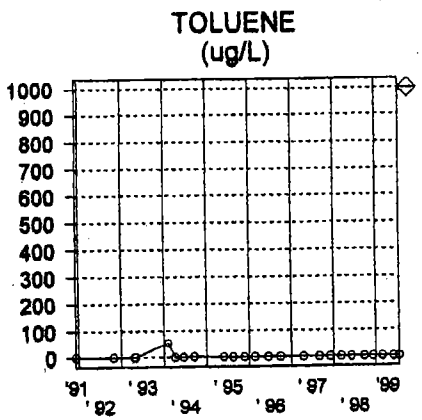
08-27-1999 x:\mtech46\fm\2567\gw\2567.wsf

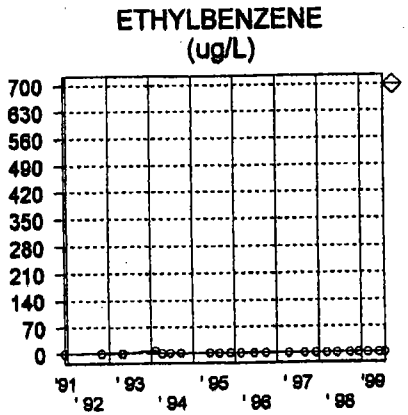


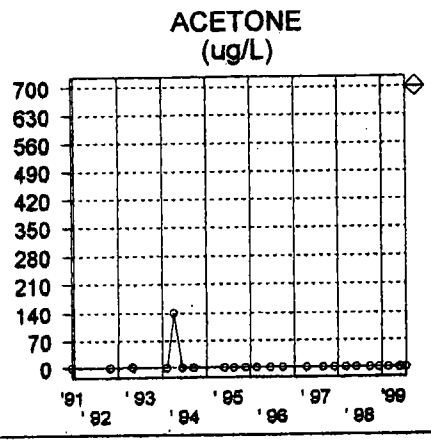


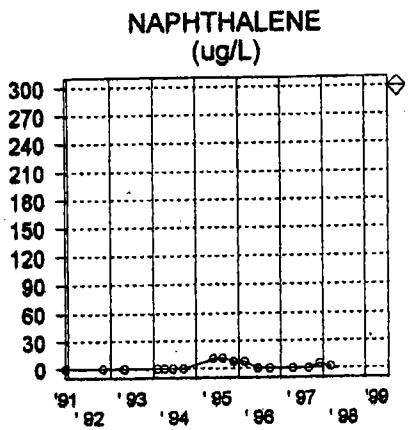


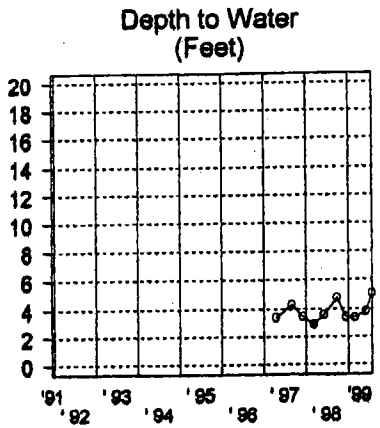












SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 07/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 2 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-27-1999 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Iron	Manganese	Sodium							NOTES
Units:	-	ug/L	ug/L	ug/L							
NJDEP Crtria:	NA	300	50	50000							
12/10/91	ENV PRO	-	-	-							-
10/26/92	ENV PRO	-	-	-							-
04/21/93	ENV PRO	-	-	-							-
04/28/93	21st CEN	-	-	-							BNA Only
02/03/94	21st CEN	-	-	-							-
03/31/94	21st CEN	-	-	-							-
06/14/94	21st CEN	-	-	-							-
09/15/94	21st CEN	-	-	-							-
05/25/95	EMSL	-	-	-							-
08/15/95	EMSL	-	-	-							-
11/21/95	EMSL	-	-	-							-
02/20/96	EMSL	-	-	-							-
06/13/96	FMETL	-	-	-							-
09/27/96	FMETL	-	-	-							-
04/11/97	FMETL	-	-	-							V,Pb
08/28/97	FMETL	-	-	-							V,Pb
12/02/97	FMETL	16300	272	58700							V,S,P,M
03/04/98	FMETL	12400	100	26600							V,S,P,M
06/01/98	FMETL	-	-	-							V,Pb
09/24/98	FMETL	-	-	-							V,Pb
12/09/98	FMETL	-	-	-							V,Pb
02/24/99	FMETL	-	-	-							V,Pb
05/29/99	FMETL	-	-	-							V,Pb
07/21/99	FMETL	-	-	-							V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 07/21/99

NOTES:

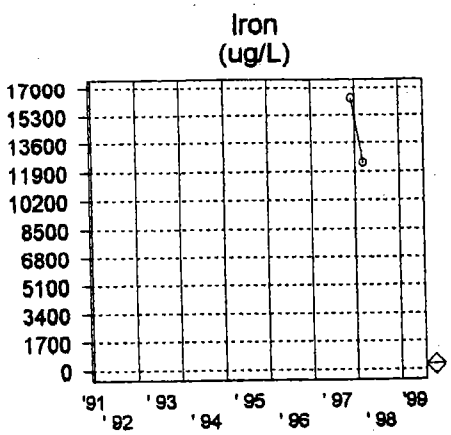
Page 2 of 2.

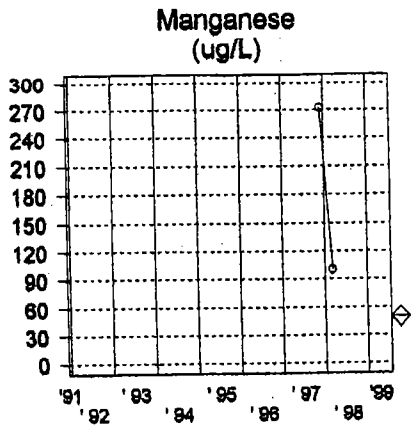
FORT MONMOUTH

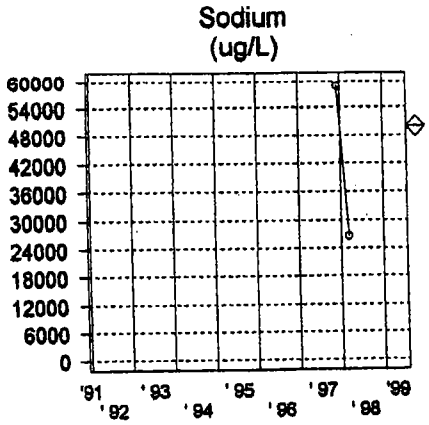
GW MONITORING
Bldg. 2567
Table / Graph A

Well 2 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 07/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 2 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-27-1999 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TOLUENE	ETHYL--BENZENE	NAPTH-ALENE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	10	2	1	NA	NA	NA	1000	700	300	
12/10/91	ENV PRO	ND	240	110	200	ND	69	ND	ND	ND	-
10/26/92	ENV PRO	5	24	ND	3	ND	ND	ND	ND	ND	-
04/21/93	ENV PRO	60	ND	180	74.2	ND	27	15	ND	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	1.2	BNA Only
02/03/94	21st CEN	41	4.4	19	65	ND	9.1	43	7.0	ND	-
03/31/94	21st CEN	25	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/94	21st CEN	3	ND	15	3.4	ND	100	ND	5.4	ND	-
09/15/94	21st CEN	ND	ND	ND	1.4	ND	61	ND	ND	ND	-
05/25/95	EMSL	2.7	21	94	190	ND	400	3.8	6.3	ND	-
08/15/95	EMSL	ND	25	89	360	ND	670	ND	8.4	21	-
11/21/95	EMSL	ND	18	35	91	46	360	ND	ND	6.6	-
02/20/96	EMSL	6	ND	40	70	43	250	1	4.5	5.4	-
06/13/96	FMETL	0.7	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	6.2	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	1.8	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	25	ND	ND	940	62	ND	ND	ND	V,Pb
12/02/97	FMETL	10	ND	4.31	ND	ND	188	ND	ND	1.92	V,S,P,M
03/04/98	FMETL	ND	ND	19	8.6	ND	102	ND	ND	1.67	V,S,P,M
06/19/98	FMETL	ND	ND	4.68	ND	27.52	81.82	ND	ND	-	V,Pb
09/25/98	FMETL	ND	ND	5.96	3.62	ND	27.27	ND	ND	-	V,Pb
12/16/98	FMETL	ND	ND	15.45	3.67	19.38	20.54	ND	ND	-	V,Pb
02/24/99	FMETL	1.0	ND	1.03	ND	ND	3.3	ND	ND	-	V,Pb
05/29/99	FMETL	ND	ND	1.70	1.29	ND	26.34	ND	1.04	-	V,Pb
07/21/99	FMETL	ND	ND	ND	ND	ND	8.98	ND	ND	-	V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 07/21/99

NOTES:

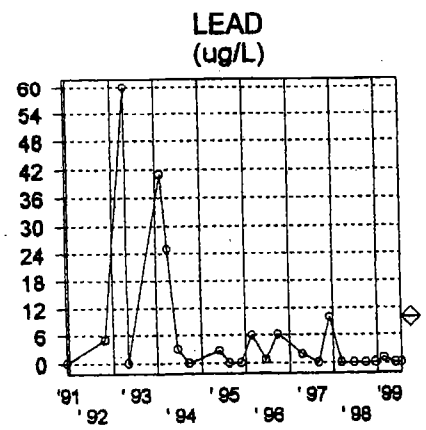
Page 1 of 2.

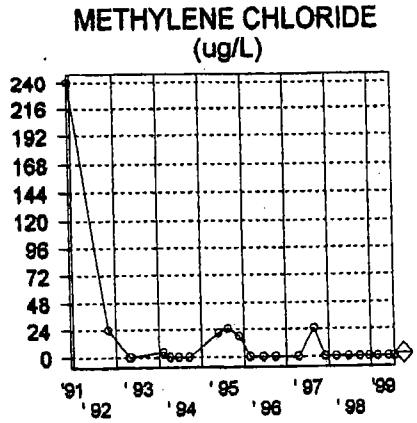
FORT MONMOUTH

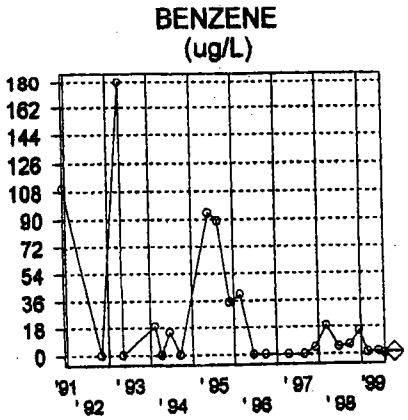
GW MONITORING
Bldg. 2567
Table / Graph A

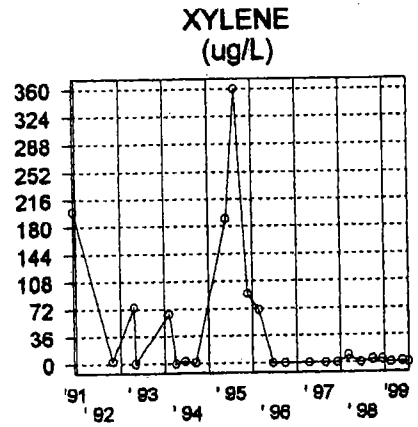
Well 3 of 5

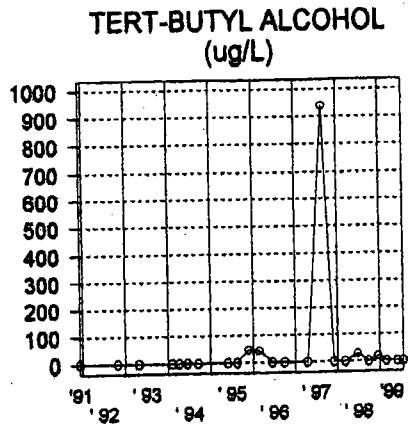
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

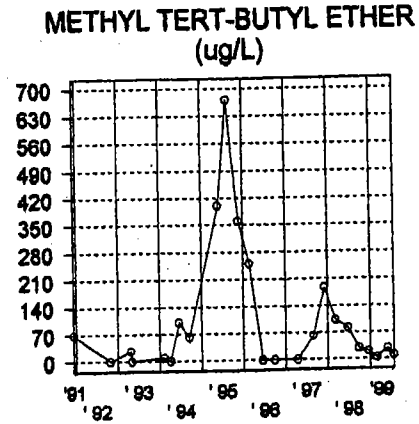


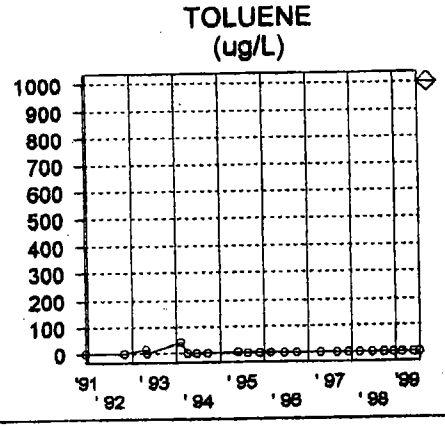


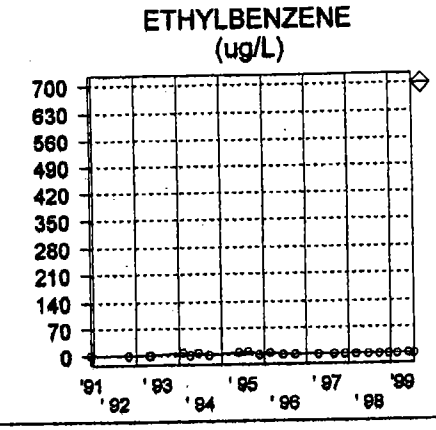


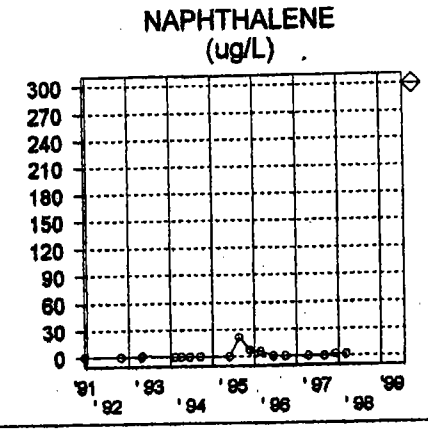












SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 07/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-27-1999 x:\mtech46\m\2567\gw\2567.wsf

	LAB	Depth to Water	Iron	Manganese	Sodium						NOTES
Units:	-	Feet	ug/L	ug/L	ug/L						
NJDEP Crtria:	NA	NA	300	50	50000						
12/10/91	ENV PRO	-	-	-	-						-
10/26/92	ENV PRO	-	-	-	-						-
04/21/93	ENV PRO	-	-	-	-						-
04/28/93	21st CEN	-	-	-	-						BNA Only
02/03/94	21st CEN	-	-	-	-						-
03/31/94	21st CEN	-	-	-	-						-
06/14/94	21st CEN	-	-	-	-						-
09/15/94	21st CEN	-	-	-	-						-
05/25/95	EMSL	-	-	-	-						-
08/15/95	EMSL	-	-	-	-						-
11/21/95	EMSL	-	-	-	-						-
02/20/96	EMSL	-	-	-	-						-
06/13/96	FMETL	-	-	-	-						-
09/27/96	FMETL	-	-	-	-						-
04/11/97	FMETL	3.15	-	-	-						V,Pb
08/28/97	FMETL	4.00	-	-	-						V,Pb
12/02/97	FMETL	3.10	5340	56.6	26900						V,S,P,M
03/04/98	FMETL	2.48	13900	144	39600						V,S,P,M
06/19/98	FMETL	3.99	-	-	-						V,Pb
09/25/98	FMETL	4.56	-	-	-						V,Pb
12/16/98	FMETL	4.25	-	-	-						V,Pb
02/24/99	FMETL	3.16	-	-	-						V,Pb
05/29/99	FMETL	3.55	-	-	-						V,Pb
07/21/99	FMETL	4.85	-	-	-						V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 07/21/99

NOTES:

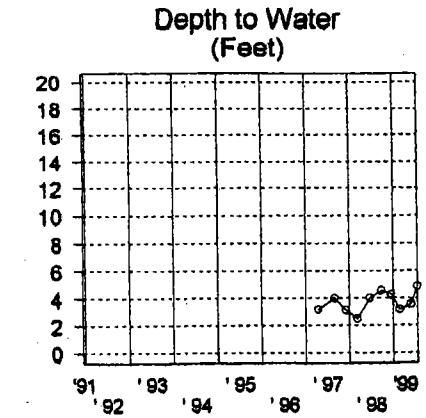
Page 2 of 2.

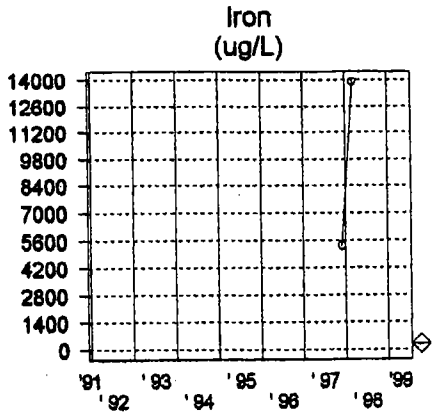
FORT MONMOUTH

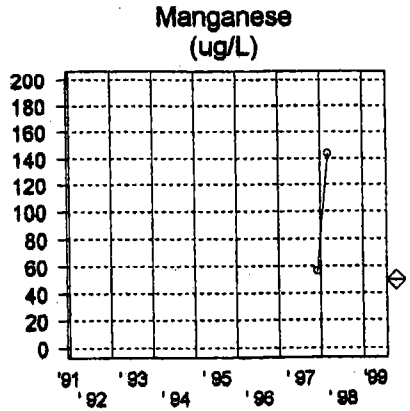
GW MONITORING
Bldg. 2567
Table / Graph A

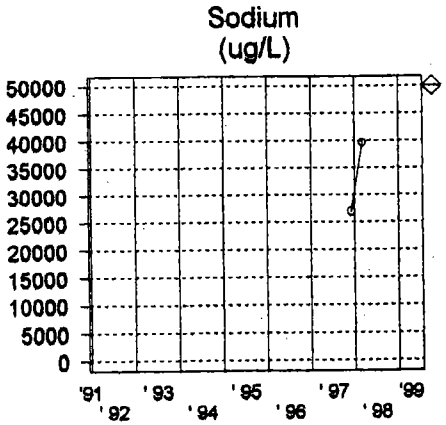
Well 3 of 5

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV









SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 07/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-27-1999 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TOLUENE	Depth to Water	Iron	Manganese	Sodium	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	10	2	1	NA	1000	NA	300	50	50000	
12/10/91	EMSL	5	ND	ND	ND	ND	-	-	-	-	-
10/26/92	ENV PRO	ND	27	ND	ND	ND	-	-	-	-	-
04/21/93	ENV PRO	ND	ND	ND	ND	ND	-	-	-	-	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	BNA Only
02/03/94	21st CEN	ND	5.0	14	60	56	-	-	-	-	-
03/31/94	21st CEN	ND	2.3	ND	ND	ND	-	-	-	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
05/25/95	EMSL	ND	1.0	ND	ND	ND	-	-	-	-	-
08/15/95	EMSL	2.6	1.3	ND	ND	ND	-	-	-	-	-
11/21/95	EMSL	ND	0.6	ND	ND	ND	-	-	-	-	-
02/20/96	EMSL	ND	1.2	ND	ND	ND	-	-	-	-	-
06/13/96	FMETL	1.8	ND	ND	ND	ND	-	-	-	-	-
09/27/96	FMETL	ND	ND	ND	ND	ND	-	-	-	-	-
04/11/97	FMETL	2.3	ND	ND	ND	ND	2.55	-	-	-	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	3.20	-	-	-	V,Pb
12/02/97	FMETL	9.0	ND	ND	ND	ND	2.45	3590	90	15600	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	2.11	4200	79	12600	V,S,P,M
06/19/98	FMETL	ND	ND	ND	ND	ND	2.33	-	-	-	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	3.55	-	-	-	V,Pb
12/12/98	FMETL	ND	ND	ND	ND	ND	3.11	-	-	-	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	2.44	-	-	-	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	2.76	-	-	-	V,Pb
07/21/99	FMETL	ND	ND	ND	ND	ND	3.98	-	-	-	V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 07/21/99

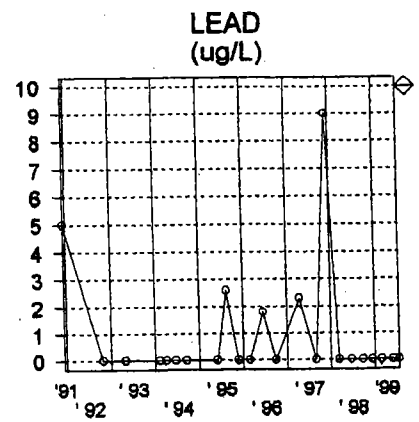
NOTES:

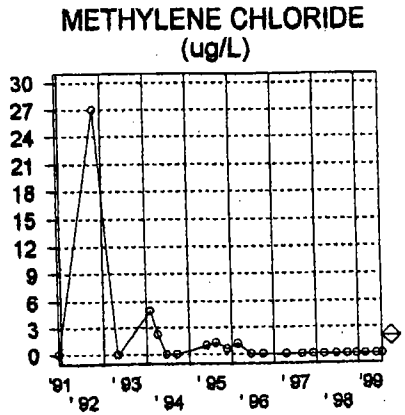
FORT MONMOUTH

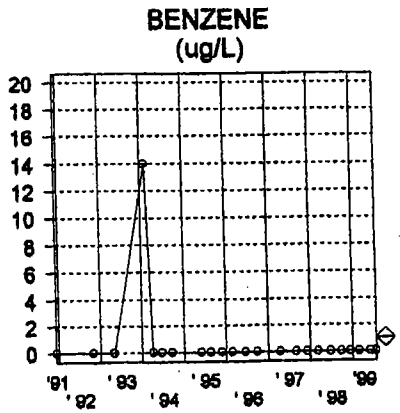
GW MONITORING
Bldg. 2567
Table / Graph A

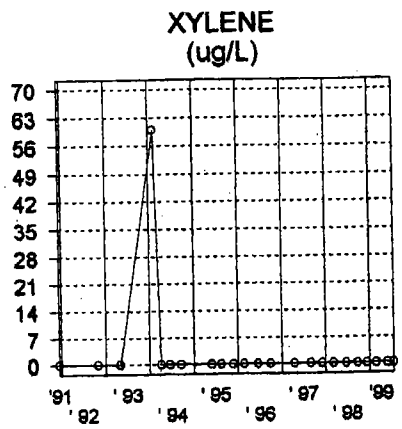
Well 4 of 5

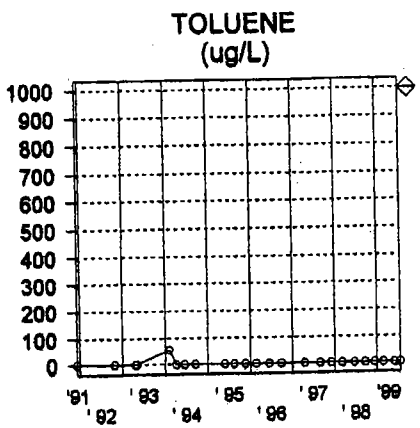
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

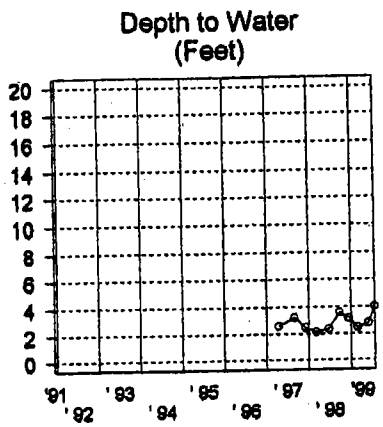


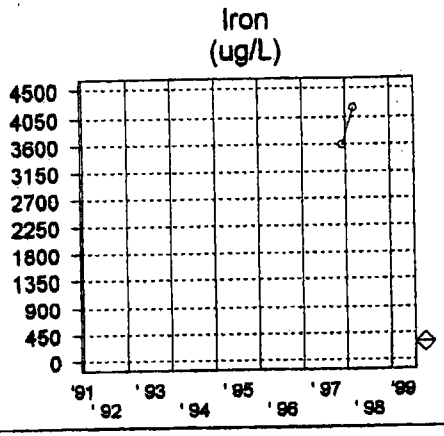


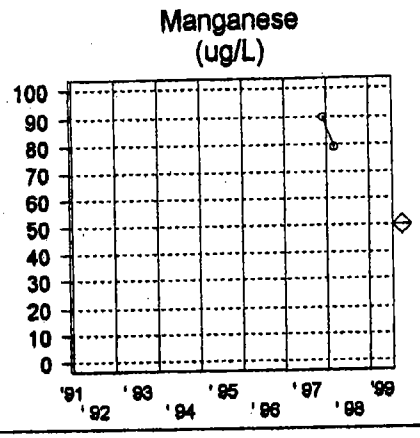


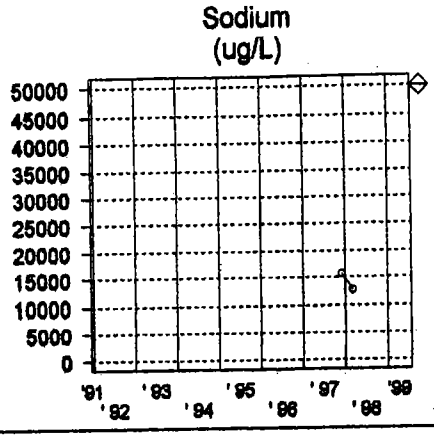












SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 07/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 4 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-27-1999 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	Depth to Water	Iron	Manganese	Sodium				NOTES
Units:	-	ug/L	ug/L	Feet	ug/L	ug/L	ug/L				
NJDEP Crtria:	NA	10	2	NA	300	50	50000				
05/25/95	EMSL	4.0	1.2	-	-	-	-				-
08/15/95	EMSL	ND	1.2	-	-	-	-				-
11/21/95	EMSL	ND	ND	-	-	-	-				-
02/20/96	EMSL	ND	0.8	-	-	-	-				-
09/27/96	FMETL	ND	ND	-	-	-	-				-
04/11/97	FMETL	2.7	ND	7.20	-	-	-				V,Pb
08/28/97	FMETL	ND	ND	7.50	-	-	-				V,Pb
12/02/97	FMETL	7.0	ND	7.20	19200	100	10500				V,S,P,M
03/04/98	FMETL	ND	ND	7.30	16400	56	9100				V,S,P,M
06/01/98	FMETL	ND	ND	7.55	-	-	-				V,Pb
09/25/98	FMETL	ND	ND	7.59	-	-	-				V,Pb
12/16/98	FMETL	ND	ND	7.34	-	-	-				V,Pb
02/24/99	FMETL	ND	ND	8.16	-	-	-				V,Pb
06/08/99	FMETL	ND	ND	7.33	-	-	-				V,Pb
07/21/99	FMETL	ND	ND	7.87	-	-	-				V,Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/95 - 07/21/99

NOTES:

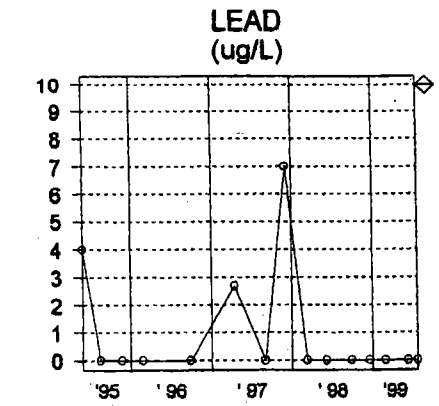
Page 1 of 1.

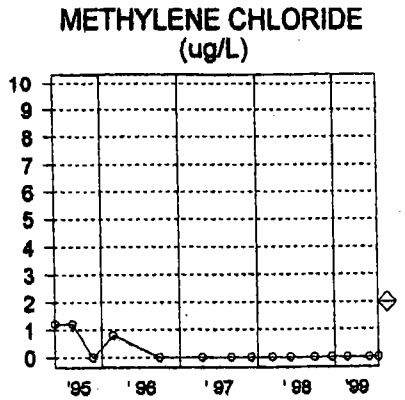
FORT MONMOUTH

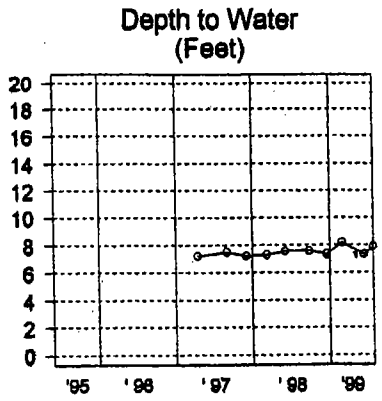
GW MONITORING
Bldg. 2567
Table / Graph A

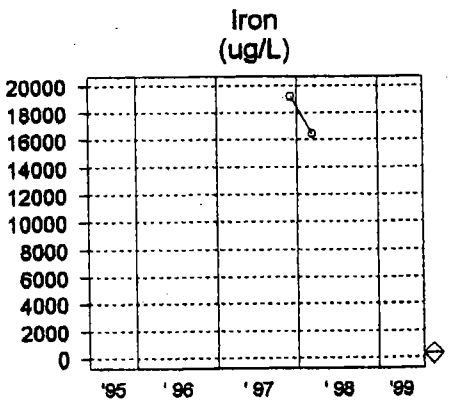
Well 5 of 5

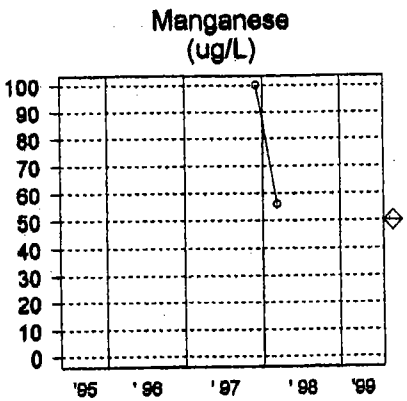
U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

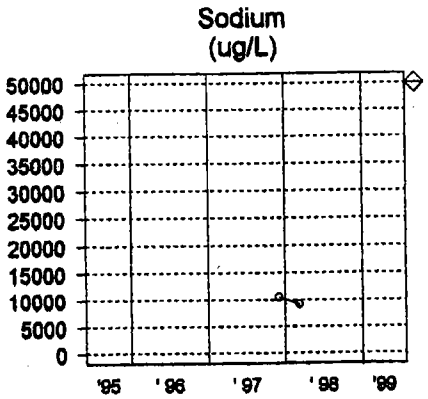












SOURCE: 2567MW05

Sampling Dates:
05/25/95 - 07/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 5 of 5, Graph

U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

08-27-1999 x:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4872.01	2567MW01	29-26925	10/21/99
4872.02	2567MW02	29-26926	10/21/99
4872.03	2567MW03	29-26947	10/21/99
4872.04	2567MW04	29-26948	10/21/99
4872.05	2567MW05	29-31783	10/21/99

NJDEP Laboratory Certification # 13461

1-28-00

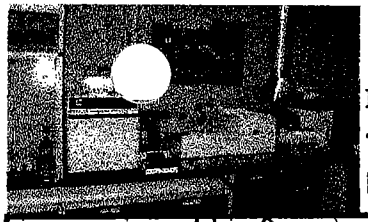
Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Sampling



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: L. Appleby
Phone #: X26224
(X)DERA ( )OMA ( )Other:

Project No:
Location: 2567 wells
4th Qrtr '99

Samplers Name / Company: Corey McCormack, TVS

Analysis Parameters: VOC+15, Pb, HNO Read

Comments: HCL/HNO3/4°C

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOC+15	Pb						HNO Read	Remarks / Preservation Method
4872 .01	2567 MW01	10/21/99	1054	AQ	3	✓	✓						0.3	29-26925
.02	2567 MW02		1058			✓	✓						0.5	29-26926
.03	2567 MW03		1103			✓	✓						10.2	29-26947
.04	2567 MW04		1110			✓	✓						0.0	29-26948
.05	2567 MW05		1024			✓	✓						0.0	29-31783

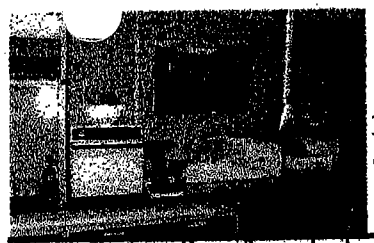
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	10/21/99 1425	J. Vergara			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, ( )Standard, ( )Screen / non-certified
Turnaround time: ( )Standard 3 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: Shows Trip/FB/Dup from 2603 same date. CPM.
Tide: ~~0.0~~ N/A

print legibly

Coc.xls10/4/99



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: C. Appleby
Phone #: X26224
( )DERA (X)OMA ( )Other:

Project No:
Location: 2603 well
4th Qrtr '99

Samplers Name / Company: Cory McCormack, TUS

Analysis Parameters: VOCs, TAL metals, Pest/PCBs, BNA 625, HNO3 Acid

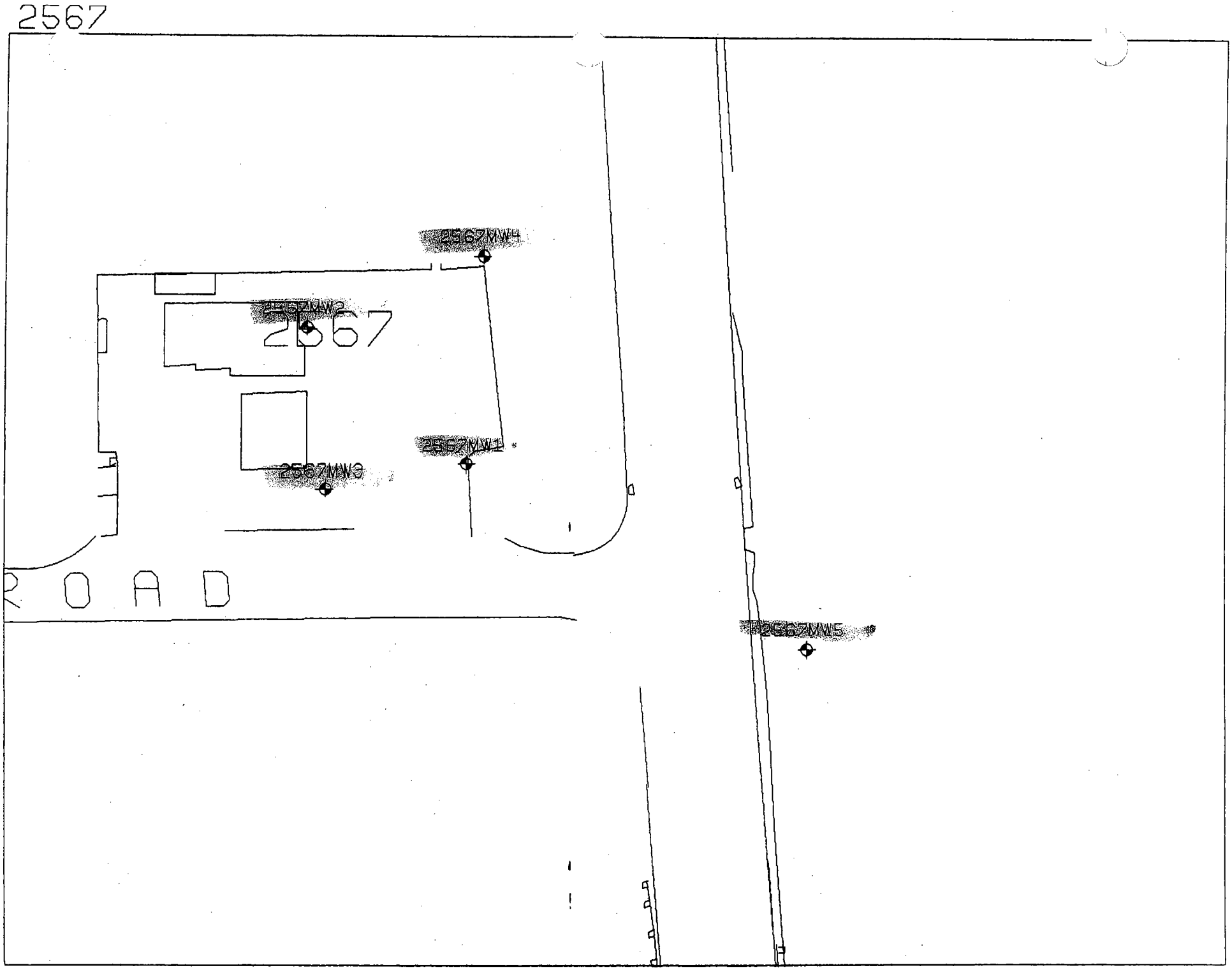
Comments: HCL/HNO3/<4°C

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOCs	TAL metals	Pest/PCBs	BNA 625				HNO3 Acid	Remarks / Preservation Method
4871 .01	Trip	10/21/99	0830	AQ	2	✓							—	
.02	Field Blank		1250		5	✓	✓	✓	✓				—	
.03	Dupe		—		5	✓	✓	✓	✓				—	
.04	2603 MW01		1257		5	✓	✓	✓	✓				9.0	29-40888
.05	OMS MS050		1300		4			✓	✓				—	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Cory McCormack	10/21/99 1425	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified
Turnaround time: (X)Standard 3 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: Shows Trip/FB/Dupe w/ ~~[illegible]~~ cpm same data cpm 2567
Tide: N/A


2567
2567MW4
2567MW2
2567
2567MW1
2567MW3
ROAD
2567MW5

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/21/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 33.95 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.03 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.07 ft
(9.07) X .65 X 3 = 17.68
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.3 ppm

PURGE START TIME: 09:35
pH 7.04 su
DISSOLVED O2 6.71 ppm
TEMP 12.5 °C
SPECIFIC CONDUCTIVITY 114 us/cm

PURGE END TIME: 10:53
pH 7.03 su
DISSOLVED O2 4.39 ppm
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 114 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.20 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:54
pH 7.02 su
DISSOLVED O2 4.33 ppm
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 113 us/cm

SAMPLE END TIME: 10:57

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/21/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 35.26 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.65 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.55 ft
(8.55) X .65 X 3 = 16.67
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.5 ppm

PURGE START TIME: 09:40
pH 6.88 su
DISSOLVED O2 6.70 ppm
TEMP 12.5 °C
SPECIFIC CONDUCTIVITY 201 us/cm

PURGE END TIME: 10:54
pH 6.87 su
DISSOLVED O2 4.41 ppm
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 200 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.45 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 10:58
pH 6.88 su
DISSOLVED O2 4.37 ppm
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 201 us/cm

SAMPLE END TIME: 11:01

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/21/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 33.88 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.93 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.57 ft
(8.57) X .65 X 3 = 16.71
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 10.2 ppm

PURGE START TIME: 09:45
pH 7.19 su
DISSOLVED O2 6.66 ppm
TEMP 12.6 °C
SPECIFIC CONDUCTIVITY 182 us/cm

PURGE END TIME: 10:59
pH 7.21 su
DISSOLVED O2 4.44 ppm
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 181 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.80 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 11:03
pH 7.20 su
DISSOLVED O2 4.41 ppm
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 180 us/cm

SAMPLE END TIME: 11:05

COMMENTS: Aquatic organism. Strong fuel odor.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/21/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 33.51 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.37 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.30 ft
(9.30) X .65 X 3 = 18.13
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:50
pH 7.32 su
DISSOLVED O2 6.41 ppm
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 146 us/cm

PURGE END TIME: 11:08
pH 7.32 su
DISSOLVED O2 4.61 ppm
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 146 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 2.86 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 11:10
pH 7.33 su
DISSOLVED O2 4.57 ppm
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 146 us/cm

SAMPLE END TIME: 11:14

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/21/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 34.99 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 8.57 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 6.18 ft
(6.18) X .65 X 3 = 12.05
GALLONS OF H2O TO BE PURGED: 12 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:32
pH 7.96 su
DISSOLVED O2 6.41 ppm
TEMP 12.5 °C
SPECIFIC CONDUCTIVITY 101 us/cm

PURGE END TIME: 10:24
pH 7.97 su
DISSOLVED O2 4.21 ppm
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 102 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.63 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 12 gal

SAMPLE START TIME: 10:24
pH 7.95 su
DISSOLVED O2 4.17 ppm
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 101 us/cm

SAMPLE END TIME: 10:27

COMMENTS: High pH.

Volatiles

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL	: Method Detection Limit
J	: Compound identified below detection limit
B	: Compound in both sample and blank
D	: Results from dilution of sample
U	: Compound searched for but not detected
E	: Compound exceeds calibration limit

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC001059.D	Sample Name	Vblk35
Operator	Skelton	Field ID	Vblk35
Date Acquired	25 Oct 1999 12:01 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Vblk35**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4872 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Vblk35

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001059.D

Level: (low/med) LOW Date Received: 10/21/99

% Moisture: not dec. Date Analyzed: 10/25/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC001069.D	Sample Name	4871.01
Operator	Skelton	Field ID	Trip Blank
Date Acquired	25 Oct 1999 7:15 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4871 Location: 2603 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4871.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001069.D

Level: (low/med) LOW Date Received: 10/21/99

% Moisture: not dec. _____ Date Analyzed: 10/25/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC001070.D	Sample Name	4871.02
Operator	Skelton	Field ID	Field Blank
Date Acquired	25 Oct 1999 7:56 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4871 Location: 2603 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4871.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001070.D

Level: (low/med) LOW Date Received: 10/21/99

% Moisture: not dec. Date Analyzed: 10/25/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC001073.D	Sample Name	4872.01
Operator	Skelton	Field ID	2567MW01
Date Acquired	25 Oct 1999 9:57 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	9.67	1278580	497.30 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.84	549719	4.80 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4872 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4872.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001073.D

Level: (low/med) LOW Date Received: 10/21/99

% Moisture: not dec. _____ Date Analyzed: 10/25/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC001074.D	Sample Name	4872.02
Operator	Skelton	Field ID	2567MW02
Date Acquired	25 Oct 1999 10:38 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4872 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4872.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001074.D

Level: (low/med) LOW Date Received: 10/21/99

% Moisture: not dec. _____ Date Analyzed: 10/25/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC001075.D	Sample Name	4872.03
Operator	Skelton	Field ID	2567MW03
Date Acquired	25 Oct 1999 11:18 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.83	1510399	13.08 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

10/27/99 3:21 PM

C:\HPCHEM\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4872 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4872.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001075.D

Level: (low/med) LOW Date Received: 10/21/99

% Moisture: not dec. Date Analyzed: 10/25/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 8

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.34	17	JN
2. 000109-66-0	Pentane	7.18	5	JN
3.	unknown	11.49	4	J
4. 000096-37-7	Cyclopentane, methyl-	15.19	10	JN
5. 000110-82-7	Cyclohexane	17.45	3	JN
6. 000098-82-8	Benzene, (1-methylethyl)-	29.63	6	JN
7. 000103-65-1	Benzene, propyl-	30.61	6	JN
8. 000496-11-7	Indane	33.77	13	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC001076.D	Sample Name	4872.04
Operator	Skelton	Field ID	2567MW04
Date Acquired	25 Oct 1999 11:58 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4872 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4872.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001076.D

Level: (low/med) LOW Date Received: 10/21/99

% Moisture: not dec. _____ Date Analyzed: 10/25/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC001077.D	Sample Name	4872.05
Operator	Skelton	Field ID	2567MW05
Date Acquired	26 Oct 1999 12:38 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW05**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 4872 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4872.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC001077.D

Level: (low/med) LOW Date Received: 10/21/99

% Moisture: not dec. _____ Date Analyzed: 10/26/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Metals

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 10/26/99
Analysis Completed: 10/26/99

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4871
Sample Prepared: 11/30/99

Site: 2603
Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/99	43.9	200	10.0
Antimony	12/01/99	5.65	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	ND	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	ND	4	0.5
Calcium	12/01/99	118	NLE	20.0
Chromium	12/01/99	2.78	100	0.5
Cobalt	12/01/99	ND	NLE	0.5
Copper	12/01/99	216	1000	3.0
Iron	12/01/99	42.1	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	106	NLE	20.0
Manganese	12/01/99	ND	50	0.5
Mercury	11/17/99	ND	2	0.1
Nickel	12/01/99	3.60	100	0.5
Potassium	12/01/99	838	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	369	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	22.2	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4871
Sample Prepared: 12/14/99

Site: 2603
Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/14/99	ND	200	10.0
Antimony	12/14/99	ND	20	2.0
Arsenic	12/14/99	ND	8	2.0
Barium	12/14/99	ND	2000	0.5
Beryllium	12/14/99	ND	20	0.5
Cadmium	12/14/99	1.7	4	0.5
Calcium	12/14/99	87.0	NLE	20.0
Chromium	12/14/99	1.33	100	0.5
Cobalt	12/14/99	ND	NLE	0.5
Copper	12/14/99	33.2	1000	3.0
Iron	12/14/99	16.8	300	10.0
Lead	12/14/99	ND	10	2.0
Magnesium	12/14/99	ND	NLE	20.0
Manganese	12/14/99	ND	50	0.5
Mercury	11/17/99	ND	2	0.1
Nickel	12/14/99	1.38	100	0.5
Potassium	12/14/99	128	NLE	20.0
Selenium	12/14/99	ND	50	3.0
Silver	12/14/99	ND	20	3.0
Sodium	12/14/99	137	50000	20.0
Thallium	12/14/99	ND	10	3.0
Vanadium	12/14/99	ND	NLE	1.0
Zinc	12/14/99	5.95	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4871.02
Sample Received: 10/21/99
Sample Matrix: Aqueous

Site: 2603
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/99	81.2	200	10.0
Antimony	12/01/99	2.89	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	ND	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	ND	4	0.5
Calcium	12/01/99	179	NLE	20.0
Chromium	12/01/99	ND	100	0.5
Cobalt	12/01/99	ND	NLE	0.5
Copper	12/01/99	5.48	1000	3.0
Iron	12/01/99	44.7	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	147	NLE	20.0
Manganese	12/01/99	ND	50	0.5
Mercury	11/17/99	ND	2	0.1
Nickel	12/01/99	ND	100	0.5
Potassium	12/01/99	ND	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	ND	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4872.01-.05
Sample Received: 10/21/99
Analysis Start: 10/26/99
Analysis Completed: 10/26/99

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
4872.01	2567MW01	1.3	10	0.8
4872.02	2567MW02	1.2	10	0.8
4872.03	2567MW03	1.3	10	0.8
4872.04	2567MW04	1.2	10	0.8
4872.05	2567MW05	4.4	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	METHY-LENE CHLORIDE	1,2-DI-CHLORO-ETHANE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	BROMODI-CHLORO-METHANE	1,2-DI-CHLORO-PROPANE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	10	2	2	1	NA	NA	~~NA~~ 70	1	1	
12/10/91	ENV PRO	4	240	55	2400	42	4400	2200	ND	ND	-
10/26/92	ENV PRO	ND	420	ND	2800	302	5400	1200	77	62	-
10/26/92D	ENV PRO	ND	130	ND	3200	57	7000	1500	ND	ND	-
04/21/93	21st CEN	70	16	ND	520	ND	470	890	ND	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/94	21st CEN	ND	26	ND	21	41	28	650	ND	ND	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	22	10	ND	ND	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	120	88	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	600	56	ND	ND	-
05/25/95	EMSL	ND	1.5	ND	ND	ND	930	110	ND	ND	-
08/15/95	EMSL	3.3	1.3	ND	ND	ND	930	29	ND	ND	-
11/21/95	EMSL	ND	36	ND	ND	ND	860	80	ND	ND	-
02/20/96	EMSL	4	2.1	ND	ND	ND	780	100	ND	ND	-
06/13/96	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	2.5	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	1.4	ND	ND	39.4	72.7	ND	240	ND	ND	V,Pb
12/02/97	FMETL	7.0	ND	ND	ND	ND	357	20.3	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	560	37	ND	ND	V,S,P,M
06/01/98	FMETL	0.5	ND	ND	ND	ND	95.63	24.23	ND	ND	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	283	10.02	ND	ND	V,Pb
12/09/98	FMETL	ND	ND	ND	ND	ND	143.26	3.43	ND	ND	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	675	26.15	ND	ND	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	605.1	9.16	ND	ND	V,Pb
07/21/99	FMETL	ND	ND	ND	ND	ND	155.56	3.33	ND	ND	V,Pb
10/21/99	FMETL	1.3	ND	ND	ND	ND	497.3	4.8	ND	ND	V,Pb

11 Conate

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 10/21/99

NOTES:

Page 1 of 4.

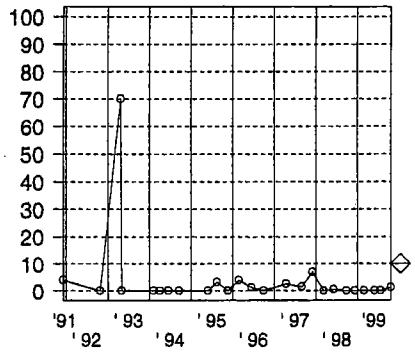
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

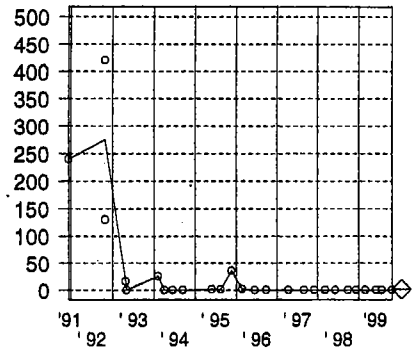
Well 1 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

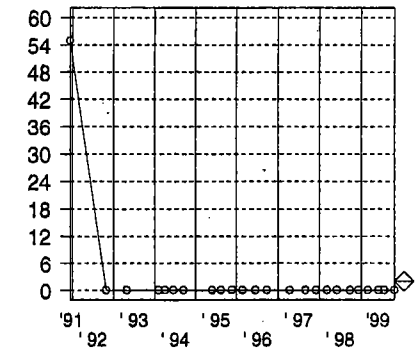
LEAD
(ug/L)



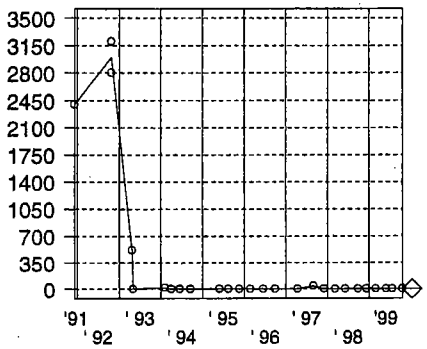
METHYLENE CHLORIDE
(ug/L)



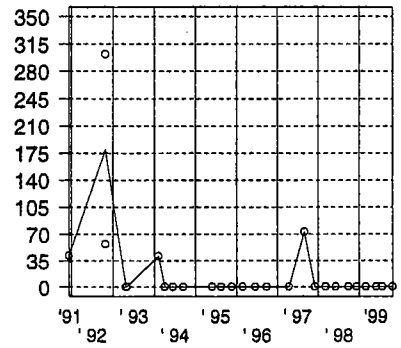
1,2-DICHLOROETHANE
(ug/L)



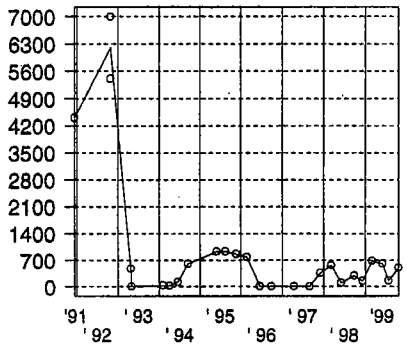
BENZENE
(ug/L)



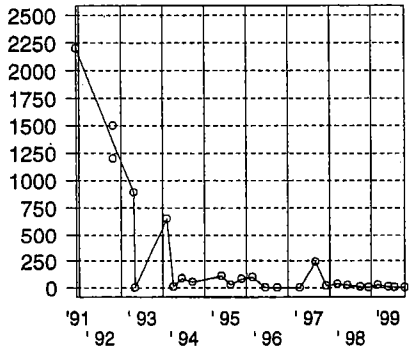
XYLENE
(ug/L)



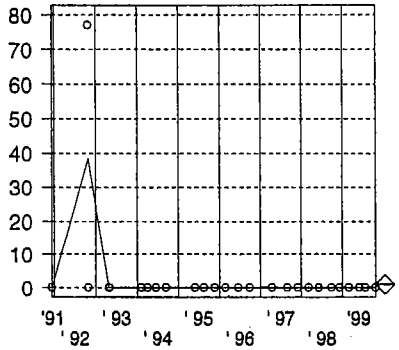
TERT-BUTYL ALCOHOL
(ug/L)



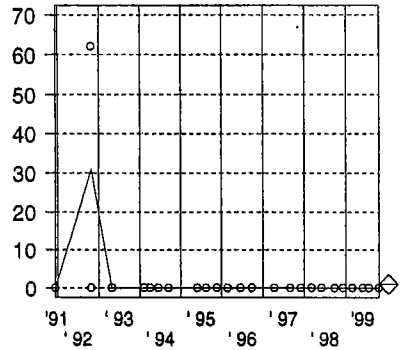
METHYL TERT-BUTYL ETHER
(ug/L)



BROMODICHLOROMETHANE
(ug/L)



1,2-DICHLOROPROPANE
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 10/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	CIS-1,3-DI-CHLORO-PROPENE	TRI-CHLORO-ETHENE	DIBROMO-CHLORO-METHANE	TRANS-1,3 DICHLORO PROPENE	BROMO-FORM	TETRA-CHLORO-ETHENE	1,1,2,2-TET-RACHLORO ETHANE	TOLUENE	CHLORO-BENZENE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	NA	1	10	NA	4	1	2	1000	4	
12/10/91	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/92	ENV PRO	48	32	130	220	140	51	170	73	99	-
10/26/92D	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/21/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	66	ND	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
05/25/95	EMSL	ND	ND	ND	ND	ND	ND	ND	0.7	ND	-
08/15/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
11/21/95	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
02/20/96	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	ND	1.3	ND	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/09/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
07/21/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
10/21/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 10/21/99

NOTES:

Page 2 of 4.

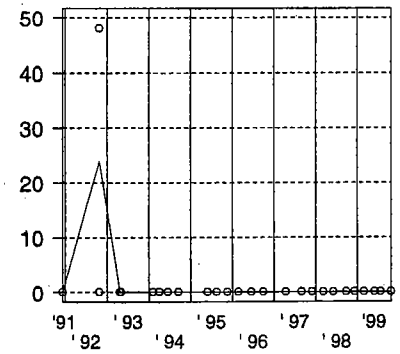
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

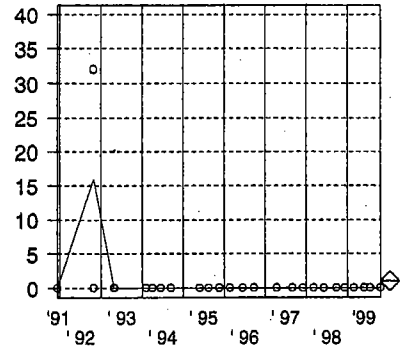
Well 1 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

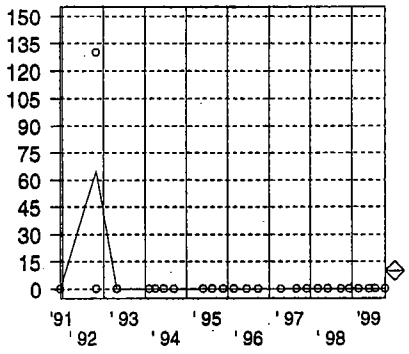
CIS-1,3-DICHLOROPROPENE
(ug/L)



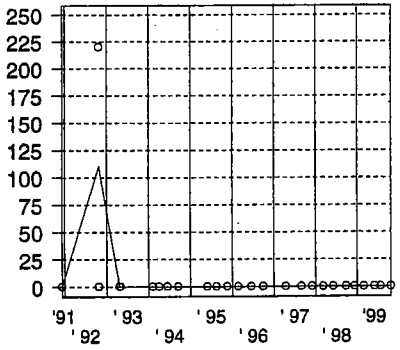
TRICHLOROETHENE
(ug/L)



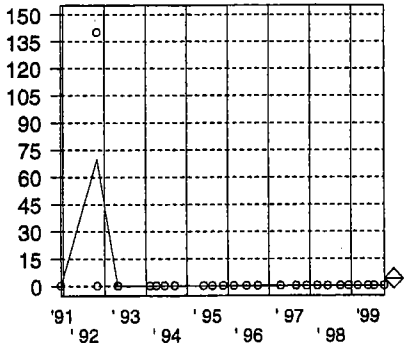
DIBROMOCHLOROMETHANE
(ug/L)



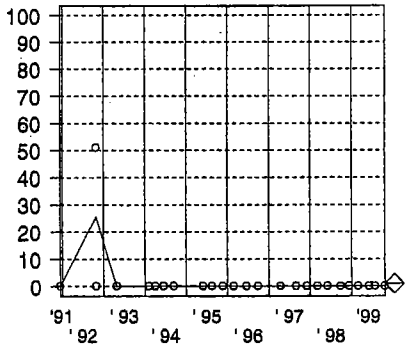
TRANS-1,3-DICHLOROPROPENE
(ug/L)



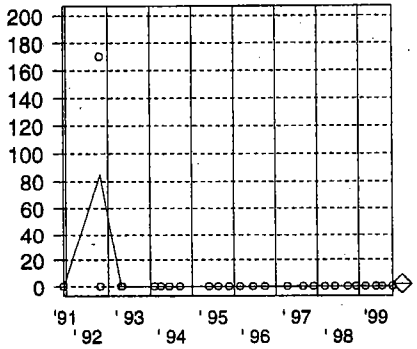
BROMOFORM
(ug/L)



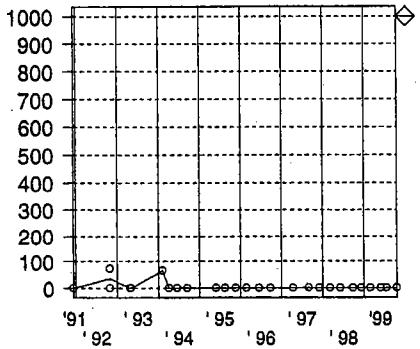
TETRACHLOROETHENE
(ug/L)



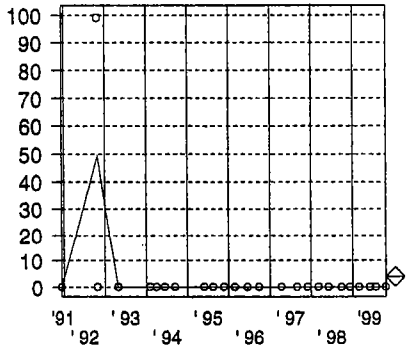
1,1,2,2-TETRACHLOROETHANE
(ug/L)



TOLUENE
(ug/L)



CHLOROBENZENE
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 10/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	ETHYL-BENZENE	STYRENE	1,3-DI-CHLORO-BENZENE	1,2-DI-CHLORO-BENZENE	1,4-DI-CHLORO-BENZENE	ACETONE	BUTYLBENZYLPHTH-ALATE	Iron	Manganese	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	700	100	600	600	75	700	100	300	50	
12/10/91	ENV PRO	ND	ND	ND	ND	ND	ND	ND	-	-	-
10/26/92	ENV PRO	90	84	100	120	120	ND	ND	-	-	-
10/26/92D	ENV PRO	ND	ND	ND	ND	ND	ND	ND	-	-	-
04/21/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	-	-	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	12	-	-	BNA Only
02/03/94	21st CEN	16	ND	ND	ND	ND	54	ND	-	-	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	6.9	ND	-	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	-	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	-	-	-
05/25/95	EMSL	ND	ND	ND	ND	ND	ND	ND	-	-	-
08/15/95	EMSL	ND	ND	ND	ND	ND	ND	ND	-	-	-
11/21/95	EMSL	ND	ND	ND	ND	ND	ND	ND	-	-	-
02/20/96	EMSL	ND	ND	ND	ND	ND	ND	ND	-	-	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	-
09/27/96	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	-
04/11/97	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
12/02/97	FMETL	ND	ND	ND	ND	ND	ND	-	4110	93	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	ND	ND	-	5800	108	V,S,P,M
06/01/98	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
12/09/98	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
07/21/99	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
10/21/99	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 10/21/99

NOTES:

Page 3 of 4.

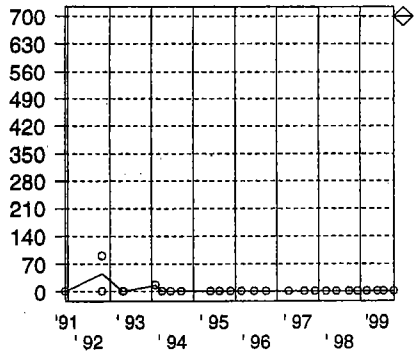
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

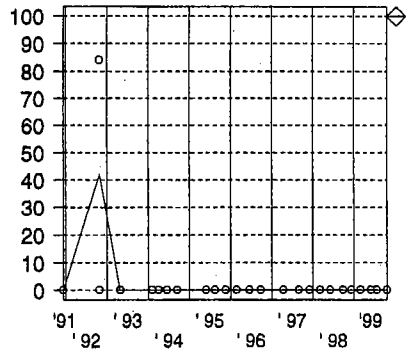
Well 1 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

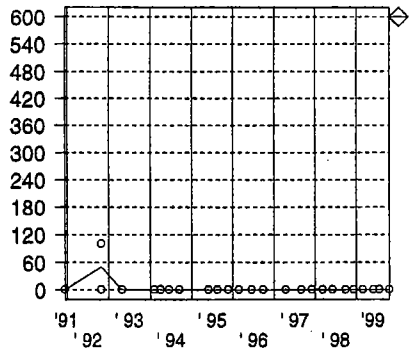
ETHYLBENZENE
(ug/L)



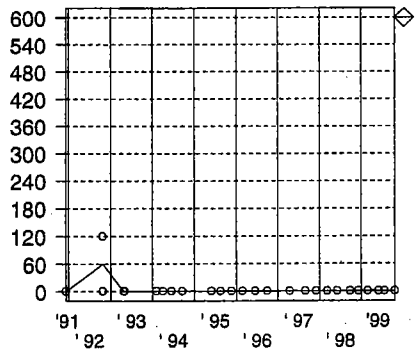
STYRENE
(ug/L)



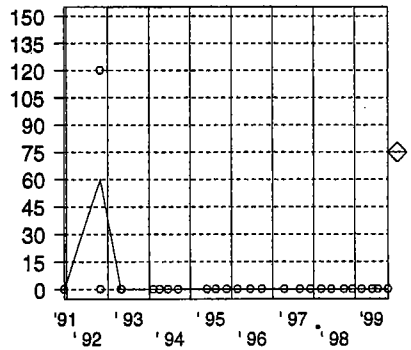
1,3-DICHLOROBENZENE
(ug/L)



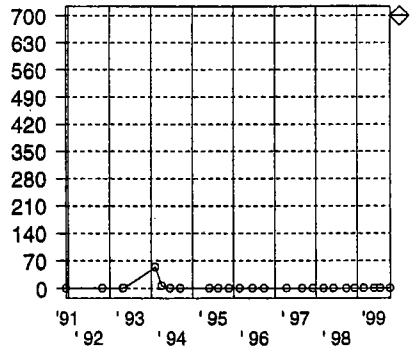
1,2-DICHLOROBENZENE
(ug/L)



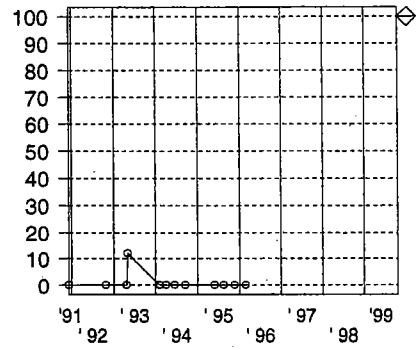
1,4 DICHLOROBENZENE
(ug/L)



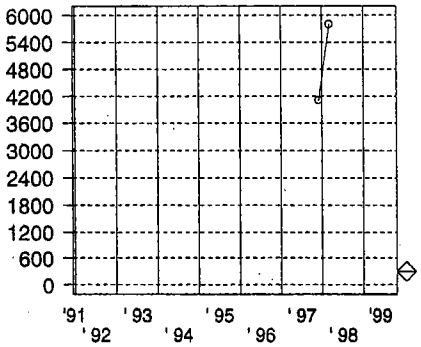
ACETONE
(ug/L)



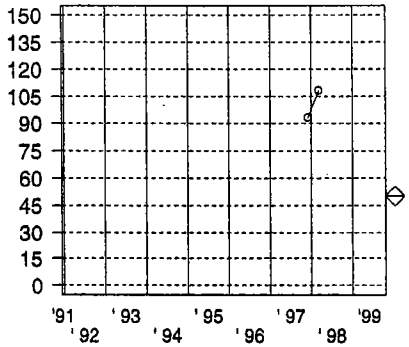
BUTYLBENZYLPHTHALATE
(ug/L)



Iron
(ug/L)



Manganese
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 10/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Sodium	Depth to Water								NOTES
Units:	-	ug/L	Feet								
NJDEP Crtria:	NA	50000	NA								
12/10/91	ENV PRO	-	-								-
10/26/92	ENV PRO	-	-								-
10/26/92D	ENV PRO	-	-								-
04/21/93	21st CEN	-	-								-
04/28/93	21st CEN	-	-								BNA Only
02/03/94	21st CEN	-	-								-
03/31/94	21st CEN	-	-								-
06/14/94	21st CEN	-	-								-
09/15/94	21st CEN	-	-								-
05/25/95	EMSL	-	-								-
08/15/95	EMSL	-	-								-
11/21/95	EMSL	-	-								-
02/20/96	EMSL	-	-								-
06/13/96	FMETL	-	-								-
09/27/96	FMETL	-	-								-
04/11/97	FMETL	-	3.80								V,Pb
08/28/97	FMETL	-	4.80								V,Pb
12/02/97	FMETL	76000	3.90								V,S,P,M
03/04/98	FMETL	48900	3.51								V,S,P,M
06/01/98	FMETL	-	4.06								V,Pb
09/24/98	FMETL	-	5.21								V,Pb
12/09/98	FMETL	-	4.90								V,Pb
02/24/99	FMETL	-	3.75								V,Pb
05/29/99	FMETL	-	4.20								V,Pb
07/21/99	FMETL	-	5.48								V,Pb
10/21/99	FMETL	-	4.03								V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 10/21/99

NOTES:

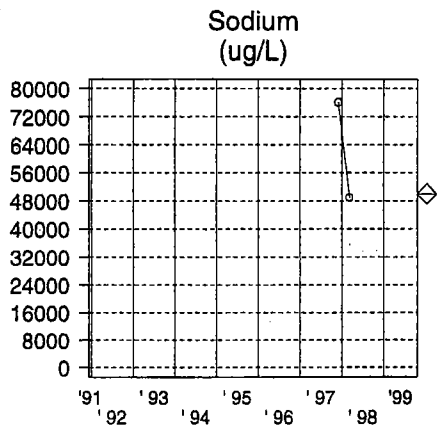
Page 4 of 4.

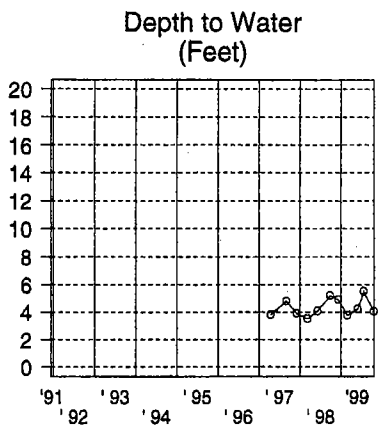
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW01

Sampling Dates:
12/10/91 - 10/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	BUTYLBENZYLPHTH-ALATE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	10	2	1	NA	NA	1000	700	700	100	
12/10/91	ENV PRO	ND	7	3	ND	ND	ND	ND	ND	ND	-
10/26/92	ENV PRO	11	23	ND	3	ND	ND	ND	ND	ND	-
04/21/93	ENV PRO	ND	ND	ND	2.0	ND	ND	ND	2.5	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	18	BNA Only
02/03/94	21st CEN	260	4.0	19	43	7.0	55	7.4	ND	ND	-
03/31/94	21st CEN	ND	17	ND	2.5	11	ND	ND	140	ND	-
06/14/94	21st CEN	ND	ND	ND	3.0	11	ND	1.1	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	5.5	4.1	1.8	1.2	ND	ND	-
05/25/95	EMSL	ND	0.9	ND	6.5	3.1	ND	0.8	ND	ND	-
08/15/95	EMSL	5.6	1.3	ND	5.3	2.5	ND	ND	ND	ND	-
11/21/95	EMSL	ND	0.6	ND	3.6	1.6	ND	ND	ND	ND	-
02/20/96	EMSL	ND	2.0	ND	4.2	2	ND	ND	ND	ND	-
06/13/96	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	10.7	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/02/97	FMETL	20	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	8.0	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/98	FMETL	1.4	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/09/98	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
07/21/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
10/21/99	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/14/00	FMETL	1.49	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 02/14/00

NOTES:

Page 1 of 3.

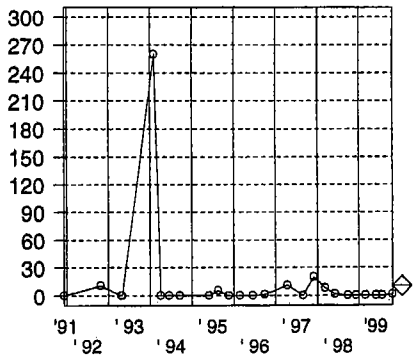
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

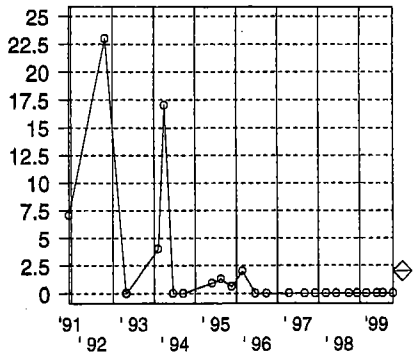
Well 2 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

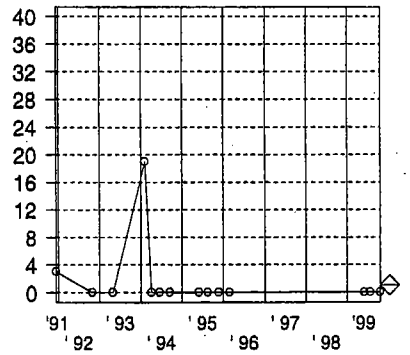
LEAD
(ug/L)



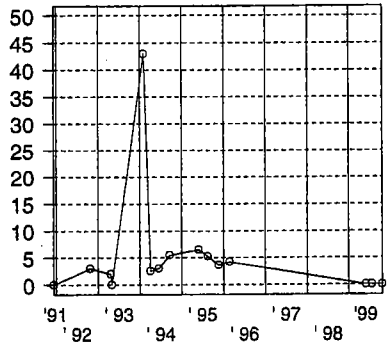
METHYLENE CHLORIDE
(ug/L)



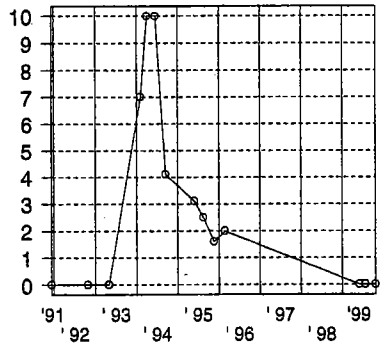
BENZENE
(ug/L)



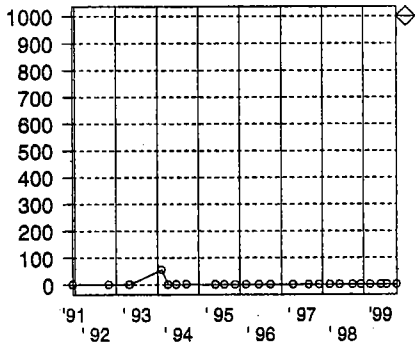
XYLENE
(ug/L)



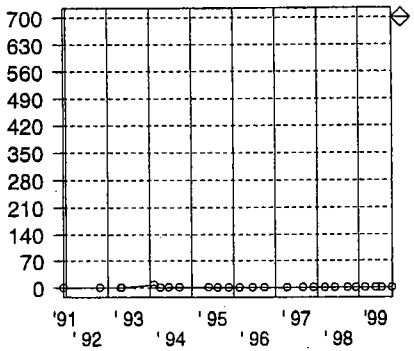
METHYL TERT-BUTYL ETHER
(ug/L)



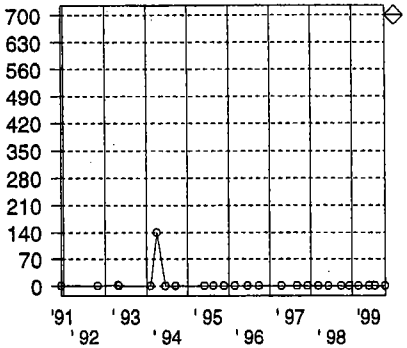
TOLUENE
(ug/L)



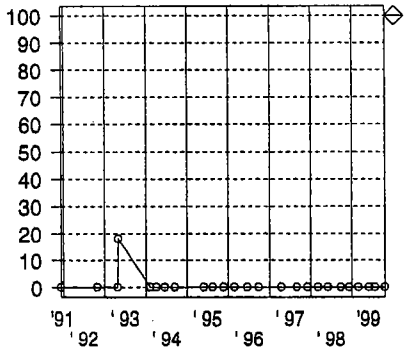
ETHYLBENZENE
(ug/L)



ACETONE
(ug/L)



BUTYLBENZYLPHTHALATE
(ug/L)



SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 10/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 2 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	NAPTH-ALENE	CARBON DISULFIDE	ISOPRO-PYL-BENZENE	N-PRO-PYL-BENZENE	1,3,5-TRI-METHYL-BENZENE	1,2,4-TRI-METHYL-BENZENE	Iron	Manganese	Sodium	NOTES
Units:	-	ug/L	ug/L	ug/l	ug/l	ug/l	ug/l	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	300	NA	NA	NA	NA	NA	300	50	50000	
12/10/91	ENV PRO	ND	ND	ND	ND	ND	ND	-	-	-	-
10/26/92	ENV PRO	ND	ND	ND	ND	ND	ND	-	-	-	-
04/21/93	ENV PRO	ND	ND	ND	ND	ND	ND	-	-	-	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	BNA Only
02/03/94	21st CEN	ND	3.1	ND	ND	ND	ND	-	-	-	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
05/25/95	EMSL	11	ND	1.1	1.3	1.0	8.8	-	-	-	-
08/15/95	EMSL	11	ND	1.1	1.3	1.0	8.2	-	-	-	-
11/21/95	EMSL	7.3	ND	1.0	1.1	0.6	4.6	-	-	-	-
02/20/96	EMSL	7.2	ND	1	1.1	0.8	6.2	-	-	-	-
06/13/96	FMETL	ND	-	-	-	-	-	-	-	-	-
09/27/96	FMETL	ND	-	-	-	-	-	-	-	-	-
04/11/97	FMETL	ND	-	-	-	-	-	-	-	-	V,Pb
08/28/97	FMETL	ND	-	-	-	-	-	-	-	-	V,Pb
12/02/97	FMETL	4.79	-	-	-	-	-	16300	272	58700	V,S,P,M
03/04/98	FMETL	1.67	-	-	-	-	-	12400	100	26600	V,S,P,M
06/01/98	FMETL	-	-	-	-	-	-	-	-	-	V,Pb
09/24/98	FMETL	-	-	-	-	-	-	-	-	-	V,Pb
12/09/98	FMETL	-	-	-	-	-	-	-	-	-	V,Pb
02/24/99	FMETL	-	-	-	-	-	-	-	-	-	V,Pb
05/29/99	FMETL	-	-	-	-	-	-	-	-	-	V,Pb
07/21/99	FMETL	-	-	-	-	-	-	-	-	-	V,Pb
10/21/99	FMETL	-	-	-	-	-	-	-	-	-	V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 10/21/99

NOTES:

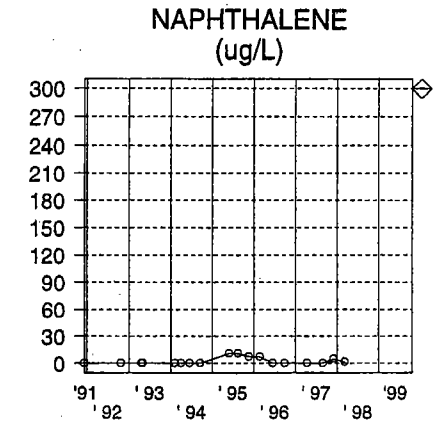
Page 2 of 3.

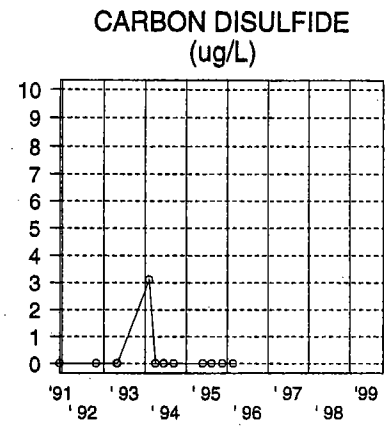
FORT MONMOUTH

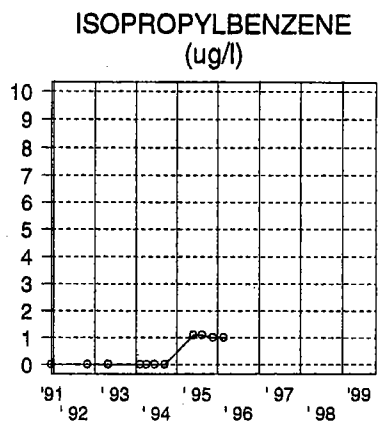
GW MONITORING
Bldg. 2567
Table / Graph A

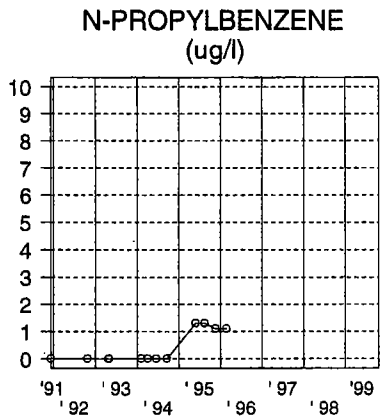
Well 2 of 5

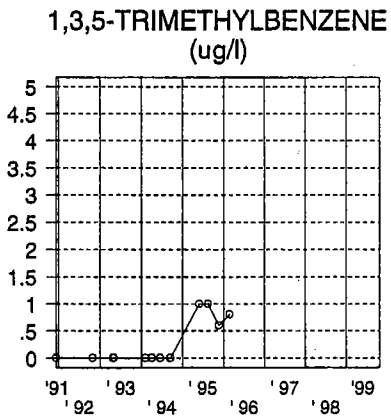
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

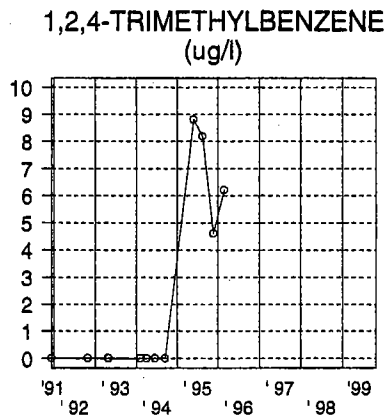


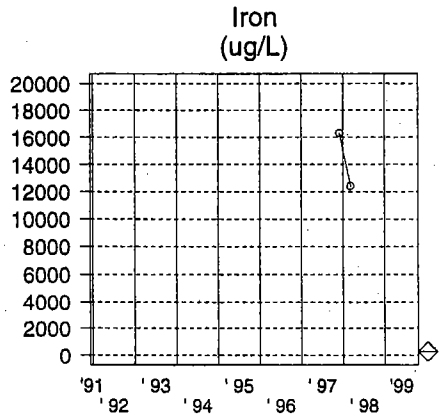


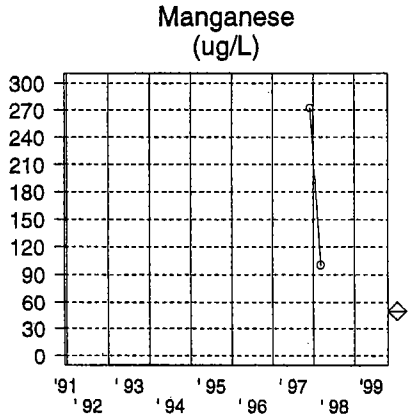


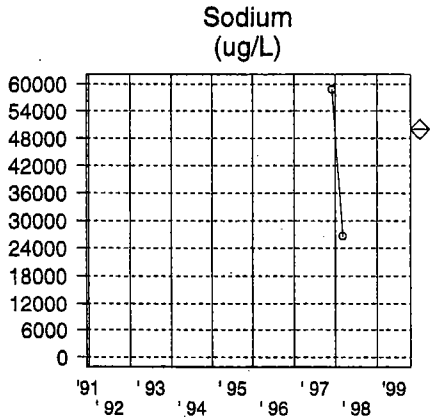












SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 10/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 2 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Depth to Water									NOTES
Units:	-	Feet									
NJDEP Crtria:	NA	NA									
12/10/91	ENV PRO	-									-
10/26/92	ENV PRO	-									-
04/21/93	ENV PRO	-									-
04/28/93	21st CEN	-									BNA Only
02/03/94	21st CEN	-									-
03/31/94	21st CEN	-									-
06/14/94	21st CEN	-									-
09/15/94	21st CEN	-									-
05/25/95	EMSL	-									-
08/15/95	EMSL	-									-
11/21/95	EMSL	-									-
02/20/96	EMSL	-									-
06/13/96	FMETL	-									-
09/27/96	FMETL	-									-
04/11/97	FMETL	3.40									V,Pb
08/28/97	FMETL	4.30									V,Pb
12/02/97	FMETL	3.45									V,S,P,M
03/04/98	FMETL	2.92									V,S,P,M
06/01/98	FMETL	3.59									V,Pb
09/24/98	FMETL	4.73									V,Pb
12/09/98	FMETL	3.42									V,Pb
02/24/99	FMETL	3.38									V,Pb
05/29/99	FMETL	3.83									V,Pb
07/21/99	FMETL	5.03									V,Pb
10/21/99	FMETL	3.65									V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 10/21/99

NOTES:

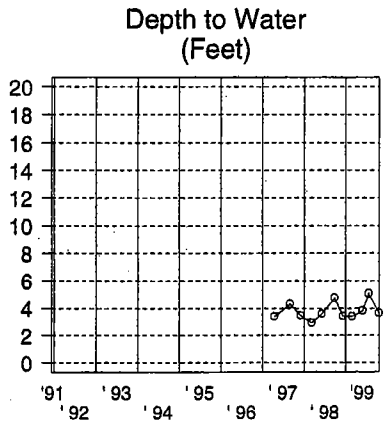
Page 3 of 3.

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 2 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW02

Sampling Dates:
12/10/91 - 10/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 2 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	10	2	1	NA	NA	NA 70	1000	700	700	
12/10/91	ENV PRO	ND	240	110	200	ND	69	ND	ND	ND	-
10/26/92	ENV PRO	5	24	ND	3	ND	ND	ND	ND	1	-
04/21/93	ENV PRO	60	ND	180	74.2	ND	27	15	ND	7.7	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/94	21st CEN	41	4.4	19	65	ND	9.1	43	7.0	ND	-
03/31/94	21st CEN	25	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/94	21st CEN	3	ND	15	3.4	ND	100	ND	5.4	ND	-
09/15/94	21st CEN	ND	ND	ND	1.4	ND	61	ND	ND	ND	-
05/25/95	EMSL	2.7	21	94	190	ND	400	3.8	6.3	ND	-
08/15/95	EMSL	ND	25	89	360	ND	670	ND	8.4	ND	-
11/21/95	EMSL	ND	18	35	91	46	360	ND	ND	ND	-
02/20/96	EMSL	6	ND	40	70	43	250	1	4.5	ND	-
06/13/96	FMETL	0.7	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/96	FMETL	6.2	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/97	FMETL	1.8	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	25	ND	ND	940	62	ND	ND	ND	V,Pb
12/02/97	FMETL	10	ND	4.31	ND	ND	188	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	19	8.6	ND	102	ND	ND	ND	V,S,P,M
06/19/98	FMETL	ND	ND	4.68	ND	27.52	81.82	ND	ND	ND	V,Pb
09/25/98	FMETL	ND	ND	5.96	3.62	ND	27.27	ND	ND	ND	V,Pb
12/16/98	FMETL	ND	ND	15.45	3.67	19.38	20.54	ND	ND	ND	V,Pb
02/24/99	FMETL	1.0	ND	1.03	ND	ND	3.3	ND	ND	ND	V,Pb
05/29/99	FMETL	ND	ND	1.70	1.29	ND	26.34	ND	1.04	ND	V,Pb
07/21/99	FMETL	ND	ND	ND	ND	ND	8.98	ND	ND	ND	V,Pb
10/21/99	FMETL	1.3	ND	ND	ND	ND	13.08	ND	ND	ND	V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 10/21/99

NOTES:

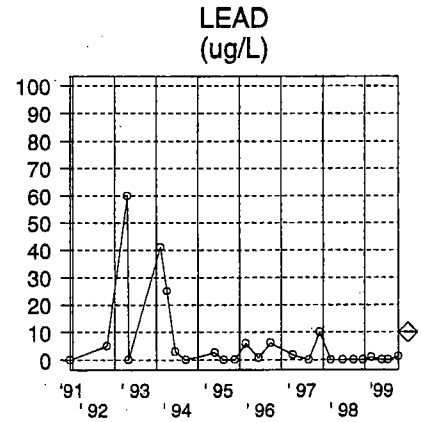
Page 1 of 3.

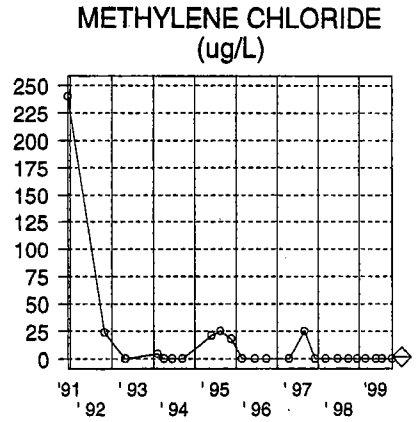
FORT MONMOUTH

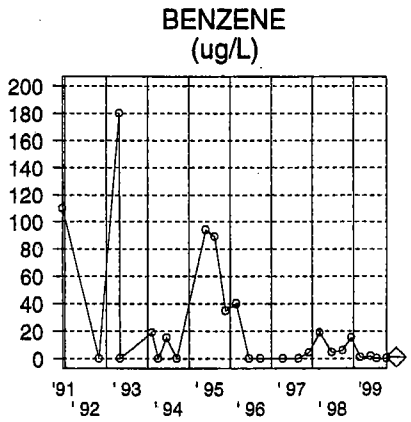
GW MONITORING
Bldg. 2567
Table / Graph A

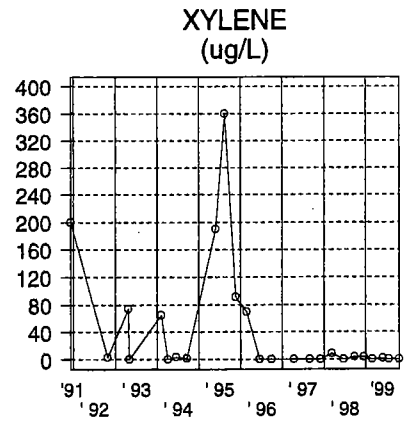
Well 3 of 5

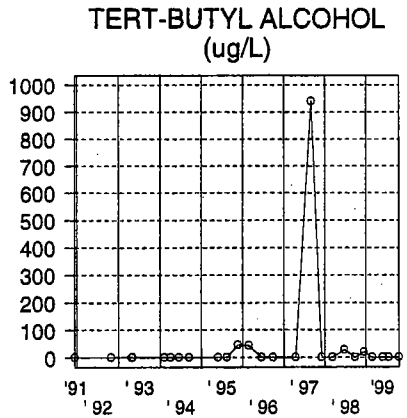
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

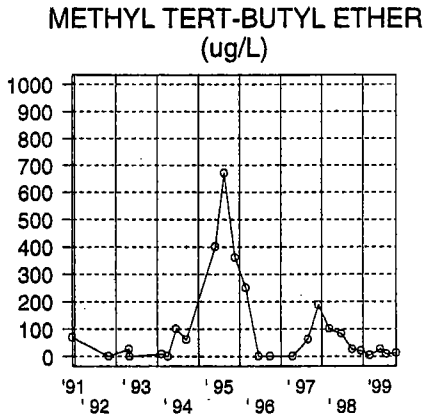


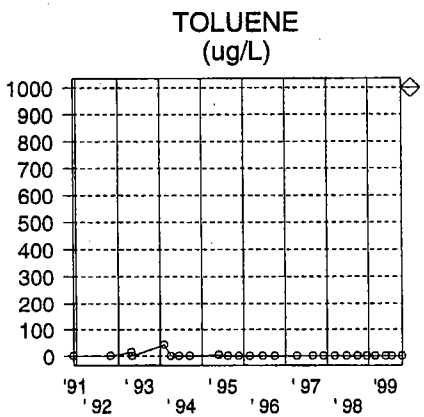


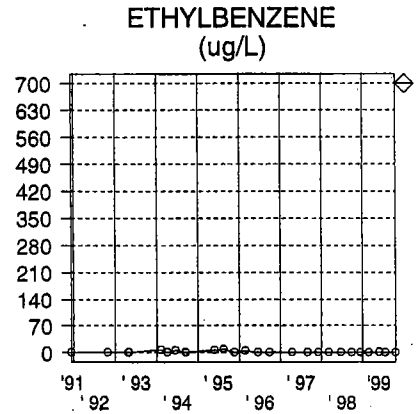


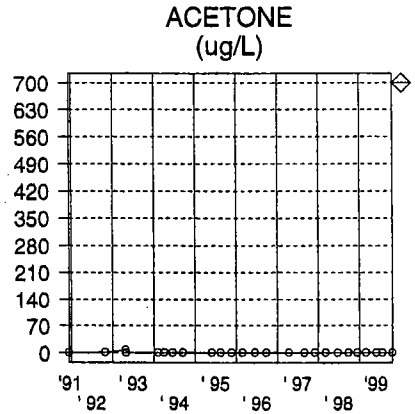












SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 10/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	BUTYLBENZYLPHTHALATE	NAPTHALENE	BIS(2-ETHYLHEXYL)-PHTHALAT	ISOPROPYLBENZENE	N-PROPYLBENZENE	1,2,4-TRIMETHYLBENZENE	Iron	Manganese	Sodium	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/l	ug/l	ug/l	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	100	300	3	NA	NA	NA	300	50	50000	
12/10/91	ENV PRO	ND	ND	ND	ND	ND	ND	-	-	-	-
10/26/92	ENV PRO	ND	ND	ND	ND	ND	ND	-	-	-	-
04/21/93	ENV PRO	ND	ND	ND	ND	ND	ND	-	-	-	-
04/28/93	21st CEN	12	1.2	2.8	ND	ND	ND	-	-	-	BNA Only
02/03/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
03/31/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
05/25/95	EMSL	ND	ND	ND	17	13	8.6	-	-	-	-
08/15/95	EMSL	ND	21	ND	30	25	33	-	-	-	-
11/21/95	EMSL	ND	6.6	ND	14	ND	ND	-	-	-	-
02/20/96	EMSL	ND	5.4	ND	13	8.3	1.4	-	-	-	-
06/13/96	FMETL	ND	ND	-	-	-	-	-	-	-	-
09/27/96	FMETL	ND	ND	-	-	-	-	-	-	-	-
04/11/97	FMETL	ND	ND	-	-	-	-	-	-	-	V,Pb
08/28/97	FMETL	ND	ND	-	-	-	-	-	-	-	V,Pb
12/02/97	FMETL	ND	1.92	-	-	-	-	5340	56.6	26900	V,S,P,M
03/04/98	FMETL	ND	1.67	-	-	-	-	13900	144	39600	V,S,P,M
06/19/98	FMETL	ND	-	-	-	-	-	-	-	-	V,Pb
09/25/98	FMETL	ND	-	-	-	-	-	-	-	-	V,Pb
12/16/98	FMETL	ND	-	-	-	-	-	-	-	-	V,Pb
02/24/99	FMETL	ND	-	-	-	-	-	-	-	-	V,Pb
05/29/99	FMETL	-	-	-	-	-	-	-	-	-	V,Pb
07/21/99	FMETL	ND	-	-	-	-	-	-	-	-	V,Pb
10/21/99	FMETL	ND	-	-	-	-	-	-	-	-	V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 10/21/99

NOTES:

Page2 of 3.

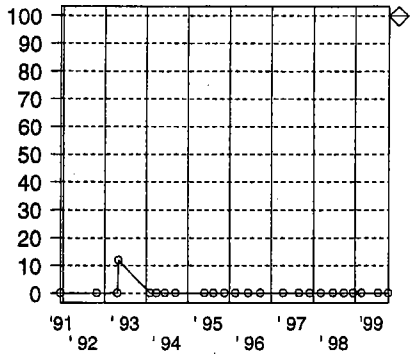
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

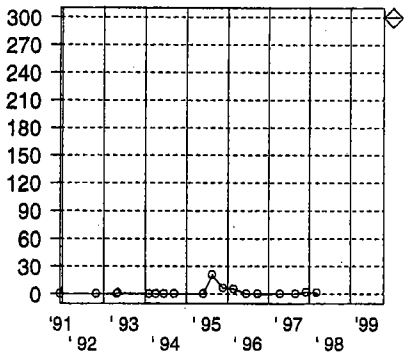
Well 3 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

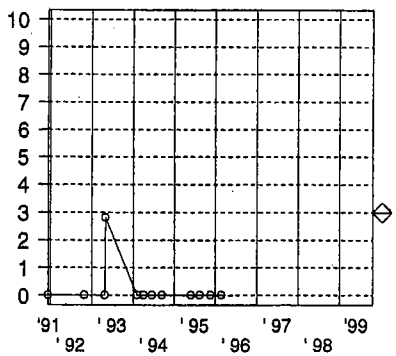
BUTYLBENZYLPHTHALATE
(ug/L)



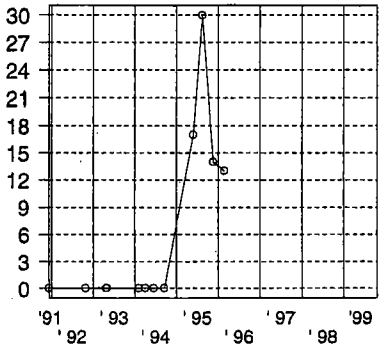
NAPHTHALENE
(ug/L)



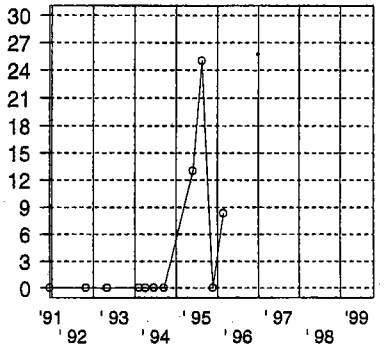
BIS(2-ETHYLHEXYL)PHTHALATE
(ug/L)



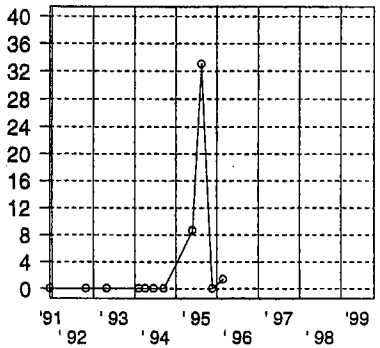
ISOPROPYLBENZENE
(ug/l)



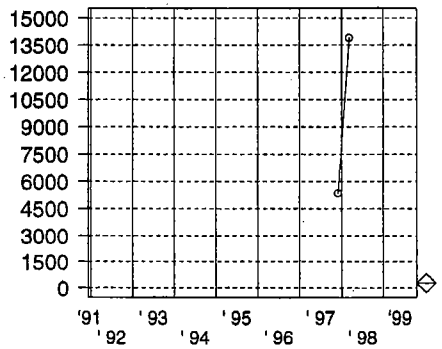
N-PROPYLBENZENE
(ug/l)



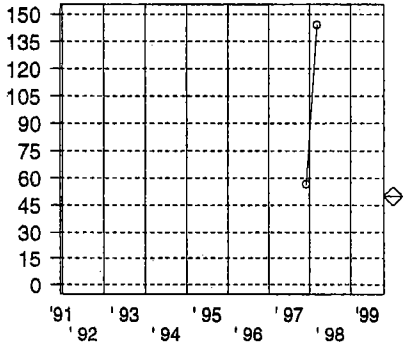
1,2,4-TRIMETHYLBENZENE
(ug/l)



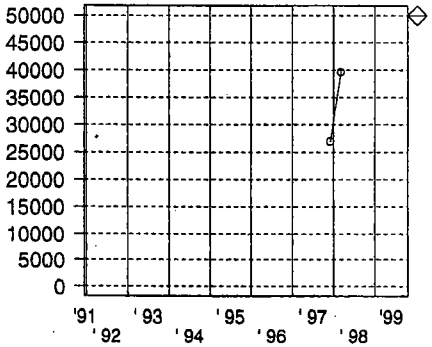
Iron
(ug/L)



Manganese
(ug/L)



Sodium
(ug/L)



SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 10/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Depth to Water									NOTES
Units:	-	Feet									
NJDEP Crtria:	NA	NA									
12/10/91	ENV PRO	-									-
10/26/92	ENV PRO	-									-
04/21/93	ENV PRO	-									-
04/28/93	21st CEN	-									BNA Only
02/03/94	21st CEN	-									-
03/31/94	21st CEN	-									-
06/14/94	21st CEN	-									-
09/15/94	21st CEN	-									-
05/25/95	EMSL	-									-
08/15/95	EMSL	-									-
11/21/95	EMSL	-									-
02/20/96	EMSL	-									-
06/13/96	FMETL	-									-
09/27/96	FMETL	-									-
04/11/97	FMETL	3.15									V,Pb
08/28/97	FMETL	4.00									V,Pb
12/02/97	FMETL	3.10									V,S,P,M
03/04/98	FMETL	2.48									V,S,P,M
06/19/98	FMETL	3.99									V,Pb
09/25/98	FMETL	4.56									V,Pb
12/16/98	FMETL	4.25									V,Pb
02/24/99	FMETL	3.16									V,Pb
05/29/99	FMETL	3.55									V,Pb
07/21/99	FMETL	4.85									V,Pb
10/21/99	FMETL	3.93									V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 10/21/99

NOTES:

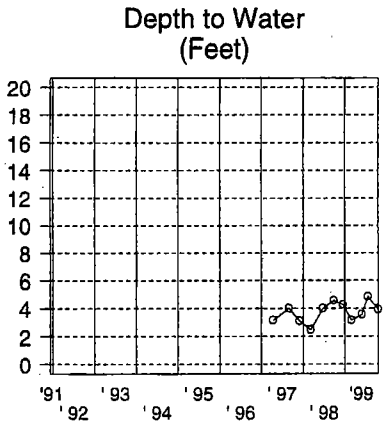
Page 3 of 3.

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW03

Sampling Dates:
12/10/91 - 10/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	BUTYLBENZYLPHTH-ALATE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
NJDEP Crtria:	NA	10	2	1	NA	NA	1000	700	700	100	
12/10/91	EMSL	5	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/92	ENV PRO	ND	27	ND	ND	ND	ND	ND	ND	ND	-
04/21/93	ENV PRO	ND	ND	ND	ND	ND	ND	ND	2.4	ND	-
04/28/93	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	10	BNA Only
02/03/94	21st CEN	ND	5.0	14	60	ND	56	8.9	ND	ND	-
03/31/94	21st CEN	ND	2.3	ND	ND	1.3	ND	ND	ND	ND	-
06/14/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/15/94	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
05/25/95	EMSL	ND	1.0	ND	ND	ND	ND	ND	ND	ND	-
08/15/95	EMSL	2.6	1.3	ND	ND	ND	ND	ND	ND	ND	-
11/21/95	EMSL	ND	0.6	ND	ND	ND	ND	ND	ND	ND	-
02/20/96	EMSL	ND	1.2	ND	ND	ND	ND	ND	ND	ND	-
06/13/96	FMETL	1.8	ND	ND	ND	-	ND	ND	ND	ND	-
09/27/96	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	-
04/11/97	FMETL	2.3	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
08/28/97	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
12/02/97	FMETL	9.0	ND	ND	ND	-	ND	ND	ND	ND	V,S,P,M
03/04/98	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,S,P,M
06/19/98	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
09/24/98	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
12/12/98	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
02/24/99	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
05/29/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
07/21/99	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
10/21/99	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 10/21/99

NOTES:

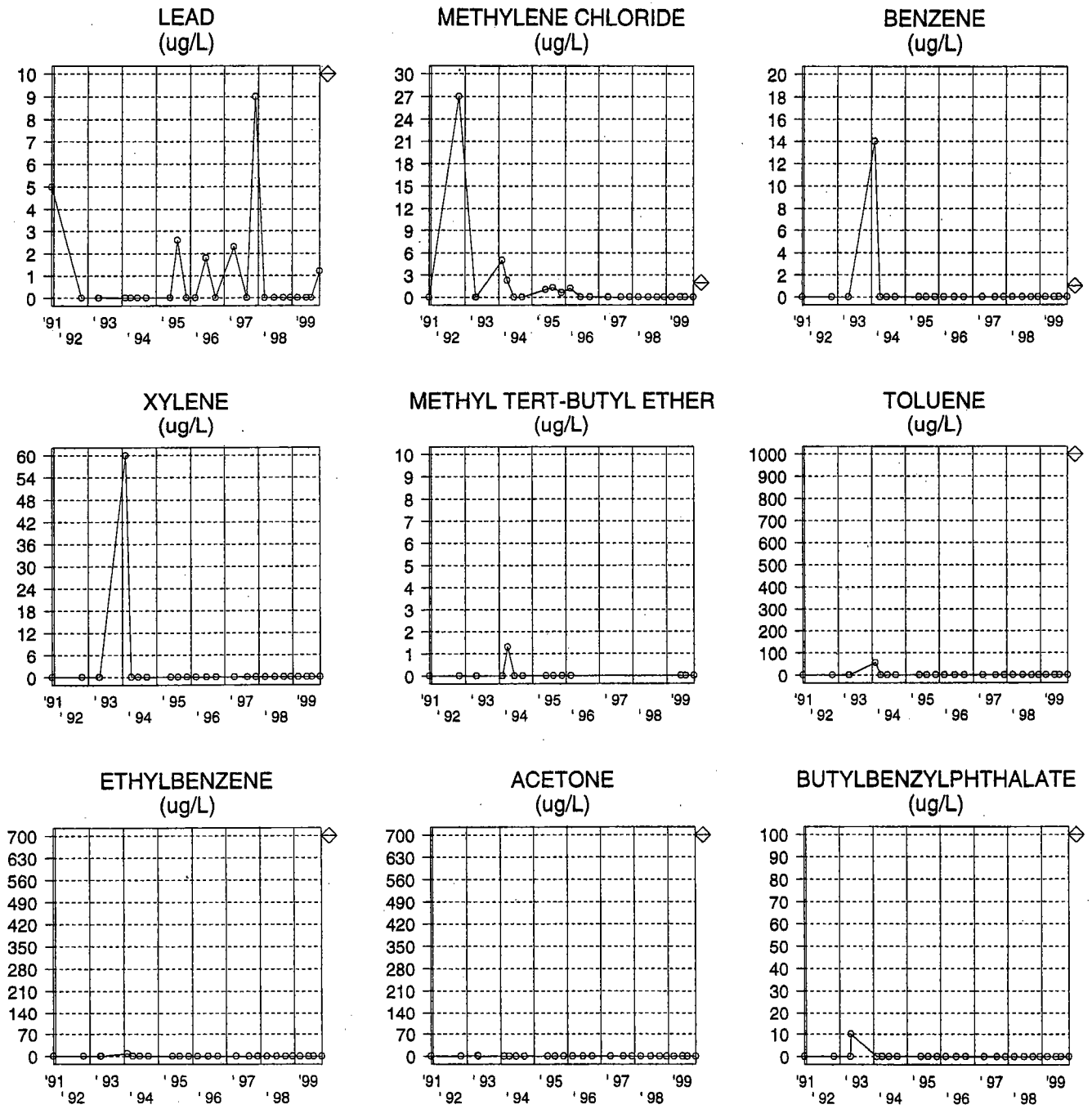
PAGE 1 OF 2

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 4 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 10/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 4 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	VINYL ACETATE	Iron	Manganese	Sodium	Depth to Water					NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	Feet					
NJDEP Crtria:	NA	NA	300	50	50000	NA					
12/10/91	EMSL	ND	-	-	-	-					-
10/26/92	ENV PRO	ND	-	-	-	-					-
04/21/93	ENV PRO	ND	-	-	-	-					-
04/28/93	21st CEN	ND	-	-	-	-					BNA Only
02/03/94	21st CEN	1.3	-	-	-	-					-
03/31/94	21st CEN	ND	-	-	-	-					-
06/14/94	21st CEN	ND	-	-	-	-					-
09/15/94	21st CEN	ND	-	-	-	-					-
05/25/95	EMSL	ND	-	-	-	-					-
08/15/95	EMSL	ND	-	-	-	-					-
11/21/95	EMSL	ND	-	-	-	-					-
02/20/96	EMSL	ND	-	-	-	-					-
06/13/96	FMETL	-	-	-	-	-					-
09/27/96	FMETL	-	-	-	-	-					-
04/11/97	FMETL	-	-	-	-	2.55					V,Pb
08/28/97	FMETL	-	-	-	-	3.20					V,Pb
12/02/97	FMETL	-	3590	90	15600	2.45					V,S,P,M
03/04/98	FMETL	-	4200	79	12600	2.11					V,S,P,M
06/19/98	FMETL	-	-	-	-	2.33					V,Pb
09/24/98	FMETL	-	-	-	-	3.55					V,Pb
12/12/98	FMETL	-	-	-	-	3.11					V,Pb
02/24/99	FMETL	-	-	-	-	2.44					V,Pb
05/29/99	FMETL	-	-	-	-	2.76					V,Pb
07/21/99	FMETL	-	-	-	-	3.98					V,Pb
10/21/99	FMETL	-	-	-	-	2.37					V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 10/21/99

NOTES:

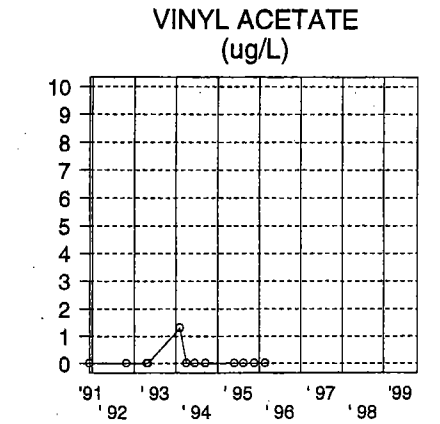
PAGE 2 OF 2

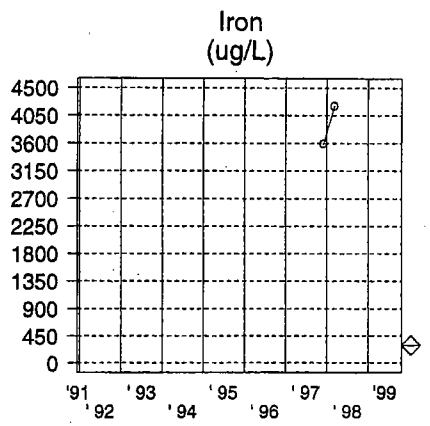
FORT MONMOUTH

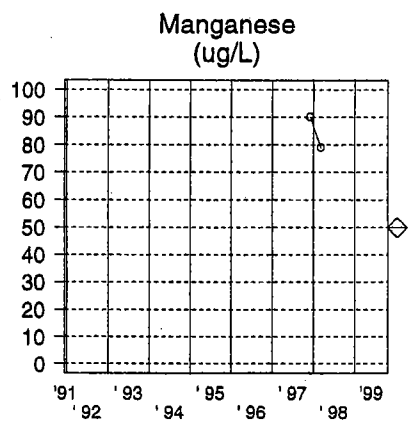
GW MONITORING
Bldg. 2567
Table / Graph A

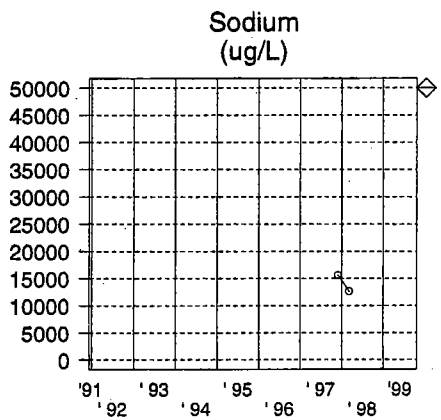
Well 4 of 5

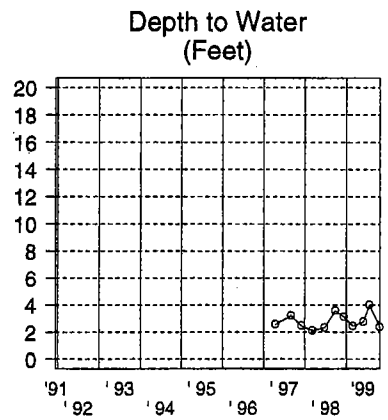
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV











SOURCE: 2567MW04

Sampling Dates:
12/10/91 - 10/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 4 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	Iron	Manganese	Sodium	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				
NJDEP Crtria:	NA	10	2	300	50	50000	NA				
05/25/95	EMSL	4.0	1.2	-	-	-	-				-
08/15/95	EMSL	ND	1.2	-	-	-	-				-
11/21/95	EMSL	ND	ND	-	-	-	-				-
02/20/96	EMSL	ND	0.8	-	-	-	-				-
09/27/96	FMETL	ND	ND	-	-	-	-				-
04/11/97	FMETL	2.7	ND	-	-	-	7.20				V,Pb
08/28/97	FMETL	ND	ND	-	-	-	7.50				V,Pb
12/02/97	FMETL	7.0	ND	19200	100	10500	7.20				V,S,P,M
03/04/98	FMETL	ND	ND	16400	56	9100	7.30				V,S,P,M
06/01/98	FMETL	ND	ND	-	-	-	7.55				V,Pb
09/25/98	FMETL	ND	ND	-	-	-	7.59				V,Pb
12/16/98	FMETL	ND	ND	-	-	-	7.34				V,Pb
02/24/99	FMETL	ND	ND	-	-	-	8.16				V,Pb
06/08/99	FMETL	ND	ND	-	-	-	7.33				V,Pb
07/21/99	FMETL	ND	ND	-	-	-	7.87				V,Pb
10/21/99	FMETL	4.4	ND	-	-	-	8.57				V,Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/95 - 10/21/99

NOTES:

Page 1 of 1.

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 5 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5167.04	2567MW01	29-26925	02/14/00
5167.05	2567MW02	29-26926	02/14/00
5167.06	2567MW03	29-26947	02/14/00
5167.07	2567MW04	29-26948	02/14/00
5167.08	2567MW05	29-31783	02/14/00

NJDEP Laboratory Certification # 13461

3-13-00

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: D. Vasel
Phone #: X21475
(X)DERA ( )OMA ( )Other:

Project No:
Location: 2567 wells 1st Qtr '00

Samplers Name / Company: Corey McCormack, TVS

Analysis Parameters: VOCs, Pb, Haz Read

Comments: HCL/HNO3/4°C

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOCs	Pb						Haz Read	Remarks / Preservation Method
5167.01	Trip	2/14/00	0730	AQ	2	✓	✓						—	
.02	Feild Blank		1000		3	✓	✓						—	
.03	Dupe		—		3	✓	✓						—	
.04	2567 MW01		1103		3	✓	✓						0.2	29-26925
.05	2567 MW02		1047		3	✓	✓						0.2	29-26926
.06	2567 MW03		1231		3	✓	✓						1.3	29-26947
.07	2567 MW04		1056		3	✓	✓						0.1	29-26948
.08	2567 MW05		1339		3	✓	✓						0.0	29-31783

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	2/14/00 1400	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

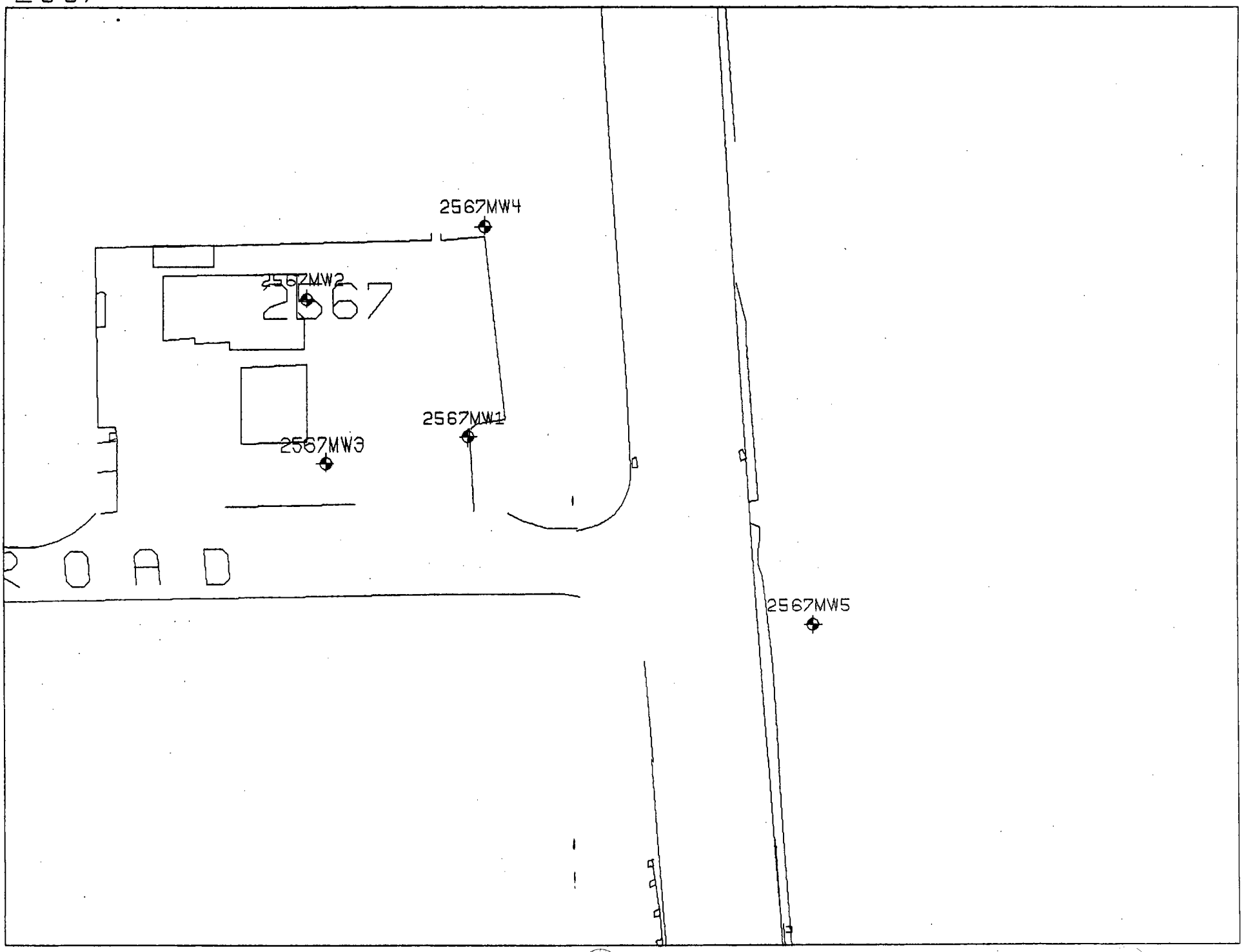
Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified
Turnaround time: (X)Standard 3 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: Tide: N/A
water is high. cpm

print legibly

Coc1/3/00

2567



U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/14/00
WEATHER: Overcast, rain.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 33.95 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.31 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.79 ft
(9.79) X .65 X 3 = 19.09
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.20 ppm

PURGE START TIME: 09:40
pH 6.89 su
DISSOLVED O2 5.48 ppm
TEMP 13.0 °C
SPECIFIC CONDUCTIVITY 76 us/cm

PURGE END TIME: 11:02
pH 6.93 su
DISSOLVED O2 5.21 ppm
TEMP 12.9 °C
SPECIFIC CONDUCTIVITY 76 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.41 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 11:03
pH 6.94 su
DISSOLVED O2 5.17 ppm
TEMP 12.9 °C
SPECIFIC CONDUCTIVITY 77 us/cm

SAMPLE END TIME: 11:05

COMMENTS: DUP here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/14/00
WEATHER: Overcast, rain.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 35.26 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.00 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.20 ft
(9.20) X .65 X 3 = 17.94
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.2 ppm

PURGE START TIME: 09:28
pH 6.43 su
DISSOLVED O2 5.71 ppm
TEMP 13.1 °C
SPECIFIC CONDUCTIVITY 103 us/cm

PURGE END TIME: 10:46
pH 6.47 su
DISSOLVED O2 5.17 ppm
TEMP 13.0 °C
SPECIFIC CONDUCTIVITY 104 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.44 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:47
pH 6.49 su
DISSOLVED O2 5.16 ppm
TEMP 12.9 °C
SPECIFIC CONDUCTIVITY 107 us/cm

SAMPLE END TIME: 10:50

COMMENTS: Orange tinge, particles.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/14/00
WEATHER: Overcast, windy.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 33.88 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.42 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.08 ft
(9.08) X .65 X 3 = 17.706
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 1.3 ppm

PURGE START TIME: 11:12
pH 6.76 su
DISSOLVED O2 4.98 ppm
TEMP 13.1 °C
SPECIFIC CONDUCTIVITY 176 us/cm

PURGE END TIME: 12:30
pH 6.77 su
DISSOLVED O2 4.76 ppm
TEMP 13.1 °C
SPECIFIC CONDUCTIVITY 170 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.74 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 12:31
pH 6.76 su
DISSOLVED O2 4.71 ppm
TEMP 13.0 °C
SPECIFIC CONDUCTIVITY 171 us/cm

SAMPLE END TIME: 12:34

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/11/00
WEATHER: Overcast, rain.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 33.51 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 1.69 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.97 ft
(9.97) X .65 X 3 = 19.44
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.1 ppm

PURGE START TIME: 09:33
pH 6.87 su
DISSOLVED O2 5.98 ppm
TEMP 13.2 °C
SPECIFIC CONDUCTIVITY 93 us/cm

PURGE END TIME: 10:55
pH 6.89 su
DISSOLVED O2 5.23 ppm
TEMP 13.0 °C
SPECIFIC CONDUCTIVITY 98 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 2.04 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 10:56
pH 6.91 su
DISSOLVED O2 5.20 ppm
TEMP 12.8 °C
SPECIFIC CONDUCTIVITY 99 us/cm

SAMPLE END TIME: 10:59

COMMENTS: Slightly cloudy, high water.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/11/00
WEATHER: Overcast, windy.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 34.99 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.75 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.00 ft
(9.00) X .65 X 3 = 17.55
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 12:30
pH 7.17 su
DISSOLVED O2 6.17 ppm
TEMP 13.0 °C
SPECIFIC CONDUCTIVITY 70 us/cm

PURGE END TIME: 13:38
pH 7.10 su
DISSOLVED O2 5.21 ppm
TEMP 12.7 °C
SPECIFIC CONDUCTIVITY 70 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.63 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 13:39
pH 7.09 su
DISSOLVED O2 5.19 ppm
TEMP 12.8 °C
SPECIFIC CONDUCTIVITY 70 us/cm

SAMPLE END TIME: 13:43

COMMENTS:

VOLATILES

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	: Method Detection Limit
J	: Compound Identified Below Detection Limit
B	: Compound is in Both Sample and Blank
D	: Results are from a Dilution of the Sample
U	: Compound Searched for but not Detected
E	: Compound Exceeds Calibration Limit

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC002129.D	Sample Name	Vblk58
Operator	Skelton	Field ID	Vblk58
Date Acquired	16 Feb 2000 1:34 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

2/17/00 11:55 AM

C:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Vblk58**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5167 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Vblk58

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002129.D

Level: (low/med) LOW Date Received: 2/14/00

% Moisture: not dec. Date Analyzed: 2/16/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC002130.D	Sample Name	5167.01
Operator	Skelton	Field ID	Trip Blank
Date Acquired	16 Feb 2000 3:03 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

2/17/00 11:55 AM

C:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5167 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5167.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002130.D

Level: (low/med) LOW Date Received: 2/14/00

% Moisture: not dec. _____ Date Analyzed: 2/16/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VC002131.D**	Sample Name	**5167.02**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**16 Feb 2000 3:44 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

2/17/00 11:55 AM

C:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5167 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5167.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002131.D

Level: (low/med) LOW Date Received: 2/14/00

% Moisture: not dec. Date Analyzed: 2/16/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC002132.D	Sample Name	5167.03
Operator	Skelton	Field ID	Dupe
Date Acquired	16 Feb 2000 4:25 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	9.88	1162294	933.91 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.84	449894	7.56 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether	13.54	55842	2.36 ug/L	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5167 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5167.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002132.D

Level: (low/med) LOW Date Received: 2/14/00

% Moisture: not dec. Date Analyzed: 2/16/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC002133.D	Sample Name	5167.04
Operator	Skelton	Field ID	2567MW01
Date Acquired	16 Feb 2000 5:06 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	9.87	1451186	1171.58 ug/L	nle	8.52 ug/L	E
1634044	Methyl-tert-Butyl ether	11.83	485994	8.20 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether	13.51	55898	2.38 ug/L	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC002159.D	Sample Name	5167.04
Operator	Skelton	Field ID	2567MW01
Date Acquired	17 Feb 2000 10:52 am	Sample Multiplier	2

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	3.70 ug/L	
107131	Acrylonitrile			not detected	50	5.56 ug/L	
75650	tert-Butyl alcohol	9.93	546249	992.19 ug/L	nle	17.04 ug/L	D
1634044	Methyl-tert-Butyl ether	11.84	317346	12.05 ug/L	70	0.32 ug/L	D
108203	Di-isopropyl ether	13.53	38262	3.66 ug/L	nle	0.50 ug/L	D
75718	Dichlorodifluoromethane			not detected	nle	3.36 ug/L	
74-87-3	Chloromethane			not detected	30	2.32 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.12 ug/L	
74-83-9	Bromomethane			not detected	10	2.20 ug/L	
75-00-3	Chloroethane			not detected	nle	2.02 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.00 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.48 ug/L	
67-64-1	Acetone			not detected	700	2.72 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.92 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.48 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.32 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.24 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	1.56 ug/L	
78-93-3	2-Butanone			not detected	300	1.24 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.34 ug/L	
67-66-3	Chloroform			not detected	6	0.60 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.46 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.94 ug/L	
71-43-2	Benzene			not detected	1	0.46 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.36 ug/L	
79-01-6	Trichloroethene			not detected	1	0.46 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.80 ug/L	
75-27-4	Bromodichloromethane			not detected	1	1.10 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.30 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	1.38 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.18 ug/L	
108-88-3	Toluene			not detected	1000	0.74 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.74 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.96 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.64 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.42 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.72 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.78 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.30 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.28 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.24 ug/L	
100-42-5	Styrene			not detected	100	1.12 ug/L	
75-25-2	Bromoform			not detected	4	1.40 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.94 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.10 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.14 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.28 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

2/17/00 11:56 AM

C:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5167 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5167.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002133.D

Level: (low/med) LOW Date Received: 2/14/00

% Moisture: not dec. _____ Date Analyzed: 2/16/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC002134.D	Sample Name	5167.05
Operator	Skelton	Field ID	2567MW02
Date Acquired	16 Feb 2000 5:47 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

2/17/00 11:56 AM

C:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5167 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5167.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002134.D

Level: (low/med) LOW Date Received: 2/14/00

% Moisture: not dec. Date Analyzed: 2/16/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC002135.D	Sample Name	5167.06
Operator	Skelton	Field ID	2567MW03
Date Acquired	16 Feb 2000 6:28 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.86	224628	3.78 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

2/17/00 11:56 AM

C:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5167 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5167.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002135.D

Level: (low/med) LOW Date Received: 2/14/00

% Moisture: not dec. _____ Date Analyzed: 2/16/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC002136.D	Sample Name	5167.07
Operator	Skelton	Field ID	2567MW04
Date Acquired	16 Feb 2000 7:10 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5167 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5167.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002136.D

Level: (low/med) LOW Date Received: 2/14/00

% Moisture: not dec. Date Analyzed: 2/16/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VC002137.D	Sample Name	5167.08
Operator	Skelton	Field ID	2567MW05
Date Acquired	16 Feb 2000 7:51 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW05**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5167 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5167.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002137.D

Level: (low/med) LOW Date Received: 2/14/00

% Moisture: not dec. _____ Date Analyzed: 2/16/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 02/15/00
Analysis Completed: 02/15/00

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5167.02-.08
Sample Received: 02/14/00
Analysis Start: 02/15/00
Analysis Completed: 02/15/00

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
5167.02	Field Blank	ND	10	0.8
5167.03	Dupe	1.17	10	0.8
5167.04	2567MW01	1.31	10	0.8
5167.05	2567MW02	1.49	10	0.8
5167.06	2567MW03	1.22	10	0.8
5167.07	2567MW04	1.40	10	0.8
5167.08	2567MW05	1.21	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TOLUENE	Iron	Manganese	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Crtria:	NA	10	2	1	NLE	NLE	70	1000	300	50	-
12/10/1991	ENV PRO	4	240	2400	42	4400	2200	ND	-	-	-
10/26/1992	ENV PRO	ND	420	2800	302	5400	1200	73	-	-	-
10/26/1992D	ENV PRO	ND	130	3200	57	7000	1500	ND	-	-	-
04/21/1993	21st CEN	70	16	520	ND	470	890	ND	-	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	-	-	BNA Only
02/03/1994	21st CEN	ND	26	21	41	28	650	66	-	-	-
03/31/1994	21st CEN	ND	ND	ND	ND	22	10	ND	-	-	-
06/14/1994	21st CEN	ND	ND	ND	ND	120	88	ND	-	-	-
09/15/1994	21st CEN	ND	ND	ND	ND	600	56	ND	-	-	-
05/25/1995	EMSL	ND	1.5	ND	ND	930	110	0.7	-	-	-
08/15/1995	EMSL	3.3	1.3	ND	ND	930	29	ND	-	-	-
11/21/1995	EMSL	ND	36	ND	ND	860	80	ND	-	-	-
02/20/1996	EMSL	4	2.1	ND	ND	780	100	ND	-	-	-
06/13/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	-	-	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	-
04/11/1997	FMETL	2.5	ND	ND	ND	ND	ND	ND	-	-	V,Pb
08/28/1997	FMETL	1.4	ND	39.4	72.7	ND	240	1.3	-	-	V,Pb
12/02/1997	FMETL	7.0	ND	ND	ND	357	20.3	ND	4110	93	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	560	37	ND	5800	108	V,S,P,M
06/01/1998	FMETL	0.5	ND	ND	ND	95.63	24.23	ND	-	-	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	283	10.02	ND	-	-	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	143.26	3.43	ND	-	-	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	675	26.15	ND	-	-	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	605.1	9.16	ND	-	-	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	155.56	3.33	ND	-	-	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	497.3	4.8	ND	-	-	V,Pb
02/14/2000	FMETL	1.31	ND	ND	ND	992	8.2	ND	-	-	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 02/14/2000

NOTES:

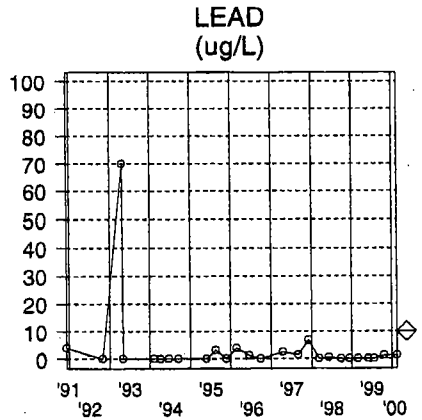
Page 1 of 2.

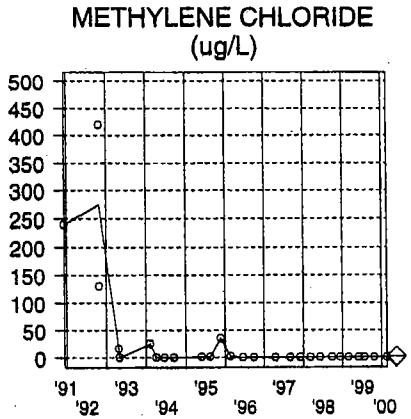
FORT MONMOUTH

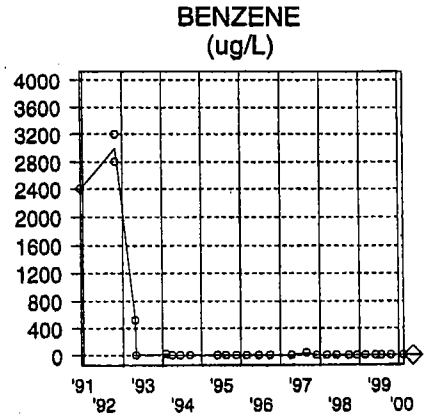
GW MONITORING
Bldg. 2567
Table / Graph A

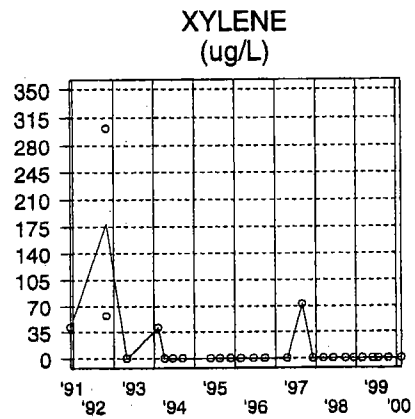
Well 1 of 5

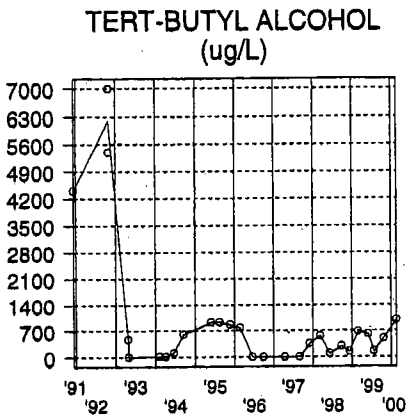
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

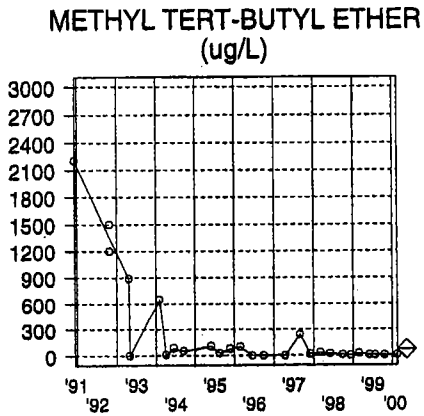


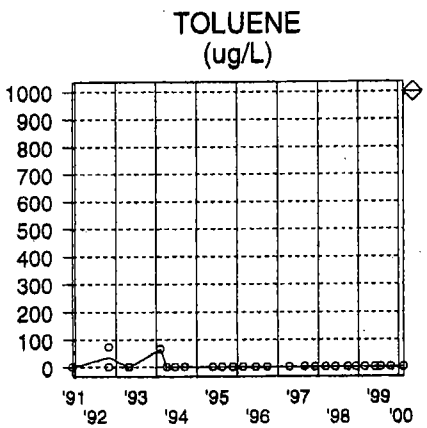


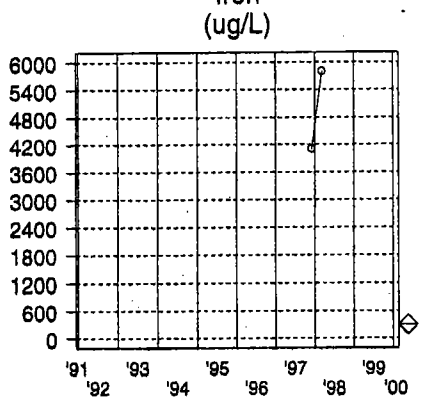


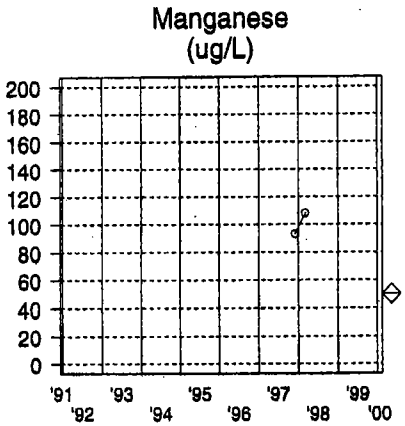












SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 02/14/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-09-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Sodium	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Crtria:	NA	50000	-								-
12/10/1991	ENV PRO	-	-								-
10/26/1992	ENV PRO	-	-								-
10/26/1992D	ENV PRO	-	-								-
04/21/1993	21st CEN	-	-								-
04/28/1993	21st CEN	-	-								BNA Only
02/03/1994	21st CEN	-	-								-
03/31/1994	21st CEN	-	-								-
06/14/1994	21st CEN	-	-								-
09/15/1994	21st CEN	-	-								-
05/25/1995	EMSL	-	-								-
08/15/1995	EMSL	-	-								-
11/21/1995	EMSL	-	-								-
02/20/1996	EMSL	-	-								-
06/13/1996	FMETL	-	-								-
09/27/1996	FMETL	-	-								-
04/11/1997	FMETL	-	3.80								V,Pb
08/28/1997	FMETL	-	4.80								V,Pb
12/02/1997	FMETL	76000	3.90								V,S,P,M
03/04/1998	FMETL	48900	3.51								V,S,P,M
06/01/1998	FMETL	-	4.06								V,Pb
09/24/1998	FMETL	-	5.21								V,Pb
12/09/1998	FMETL	-	4.90								V,Pb
02/24/1999	FMETL	-	3.75								V,Pb
05/29/1999	FMETL	-	4.20								V,Pb
07/21/1999	FMETL	-	5.48								V,Pb
10/21/1999	FMETL	-	4.03								V,Pb
02/14/2000	FMETL	-	3.31								V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 02/14/2000

NOTES:

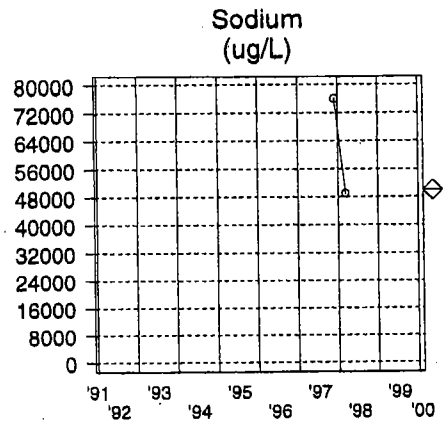
Page 2 of 2.

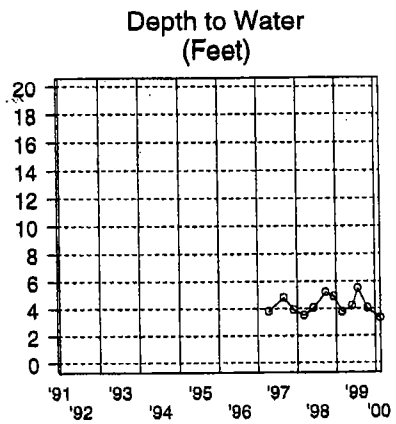
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 02/14/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-09-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	NAPTH-ALENE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	1	NLE	70	1000	700	700	NLE	-
12/10/1991	ENV PRO	ND	7	3	ND	ND	ND	ND	ND	ND	-
10/26/1992	ENV PRO	11	23	ND	3	ND	ND	ND	ND	ND	-
04/21/1993	ENV PRO	ND	ND	ND	2.0	ND	ND	ND	2.5	ND	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/1994	21st CEN	260	4.0	19	43	7.0	55	7.4	ND	ND	-
03/31/1994	21st CEN	ND	17	ND	2.5	11	ND	ND	140	ND	-
06/14/1994	21st CEN	ND	ND	ND	3.0	11	ND	1.1	ND	ND	-
09/15/1994	21st CEN	ND	ND	ND	5.5	4.1	1.8	1.2	ND	ND	-
05/25/1995	EMSL	ND	0.9	ND	6.5	3.1	ND	0.8	ND	11	-
08/15/1995	EMSL	5.6	1.3	ND	5.3	2.5	ND	ND	ND	11	-
11/21/1995	EMSL	ND	0.6	ND	3.6	1.6	ND	ND	ND	7.3	-
02/20/1996	EMSL	ND	2.0	ND	4.2	2	ND	ND	ND	7.2	-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	10.7	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/02/1997	FMETL	20	ND	ND	ND	ND	ND	ND	ND	4.79	V,S,P,M
03/04/1998	FMETL	8.0	ND	ND	ND	ND	ND	ND	ND	1.67	V,S,P,M
06/01/1998	FMETL	1.4	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
02/14/2000	FMETL	1.49	ND	ND	ND	ND	ND	ND	ND	-	V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 02/14/2000

NOTES:

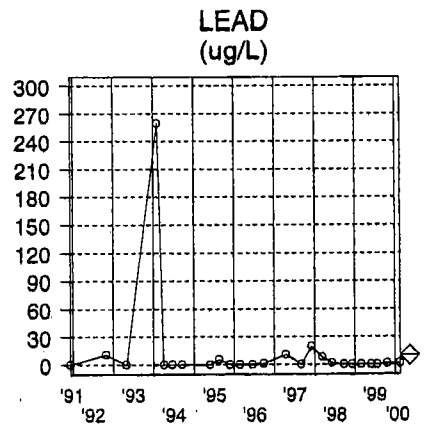
Page 1 of 2.

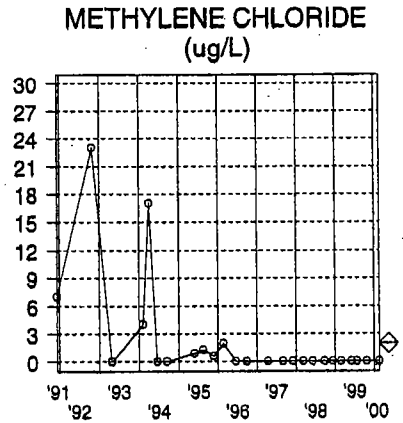
FORT MONMOUTH

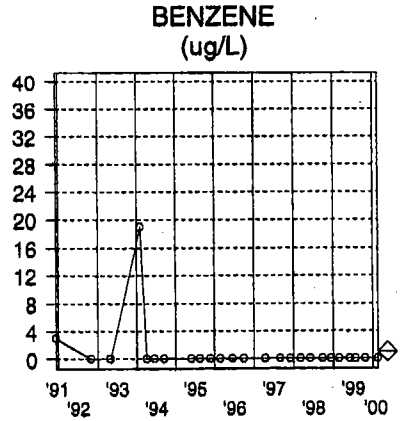
GW MONITORING
Bldg. 2567
Table / Graph A

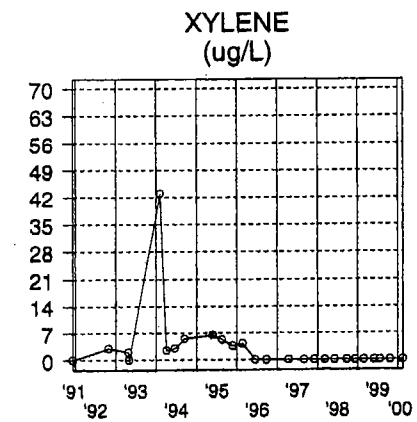
Well 2 of 5

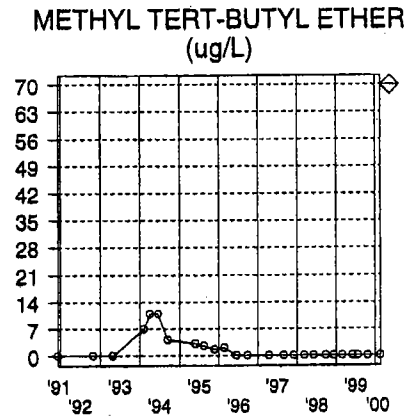
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

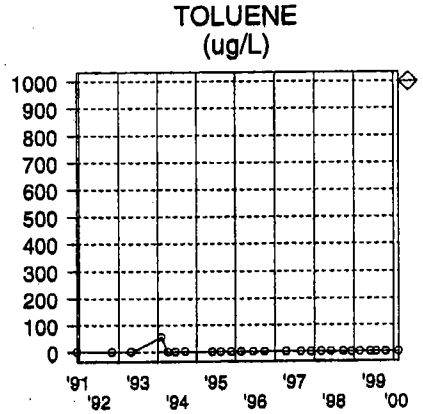


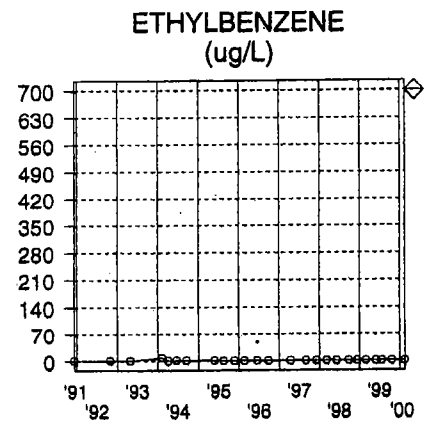


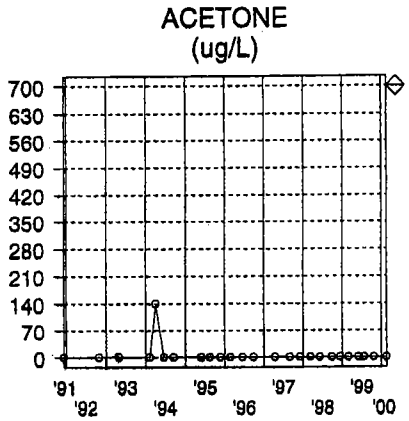


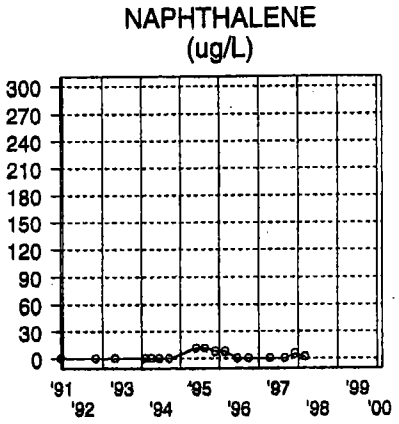












SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 02/14/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 2 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-09-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Iron	Manganese	Sodium	Depth to Water						NOTES
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	NA	300	50	50000	-						-
12/10/1991	ENV PRO	-	-	-	-						-
10/26/1992	ENV PRO	-	-	-	-						-
04/21/1993	ENV PRO	-	-	-	-						-
04/28/1993	21st CEN	-	-	-	-						BNA Only
02/03/1994	21st CEN	-	-	-	-						-
03/31/1994	21st CEN	-	-	-	-						-
06/14/1994	21st CEN	-	-	-	-						-
09/15/1994	21st CEN	-	-	-	-						-
05/25/1995	EMSL	-	-	-	-						-
08/15/1995	EMSL	-	-	-	-						-
11/21/1995	EMSL	-	-	-	-						-
02/20/1996	EMSL	-	-	-	-						-
06/13/1996	FMETL	-	-	-	-						-
09/27/1996	FMETL	-	-	-	-						-
04/11/1997	FMETL	-	-	-	3.40						V,Pb
08/28/1997	FMETL	-	-	-	4.30						V,Pb
12/02/1997	FMETL	16300	272	58700	3.45						V,S,P,M
03/04/1998	FMETL	12400	100	26600	2.92						V,S,P,M
06/01/1998	FMETL	-	-	-	3.59						V,Pb
09/24/1998	FMETL	-	-	-	4.73						V,Pb
12/09/1998	FMETL	-	-	-	3.42						V,Pb
02/24/1999	FMETL	-	-	-	3.38						V,Pb
05/29/1999	FMETL	-	-	-	3.83						V,Pb
07/21/1999	FMETL	-	-	-	5.03						V,Pb
10/21/1999	FMETL	-	-	-	3.65						V,Pb
02/14/2000	FMETL	-	-	-	3.00						V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 02/14/2000

NOTES:

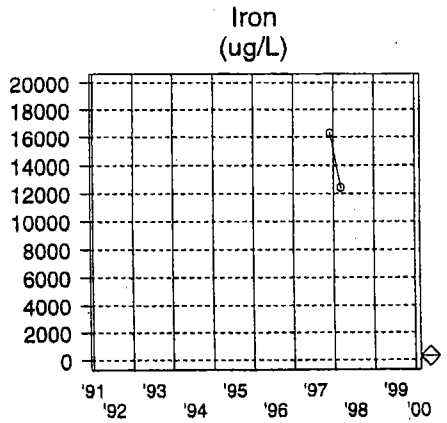
Page 2 of 2.

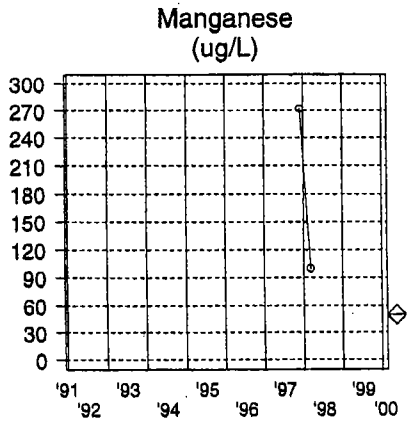
FORT MONMOUTH

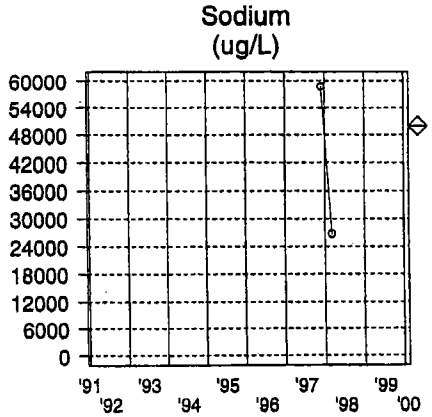
GW MONITORING
Bldg. 2567
Table / Graph A

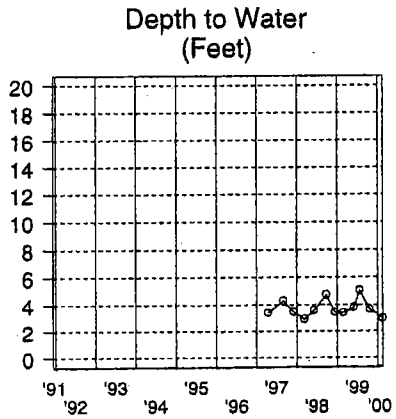
Well 2 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV









SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 02/14/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 2 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-09-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TOLUENE	ETHYL-BENZENE	Iron	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	1	NLE	NLE	70	1000	700	300	-
12/10/1991	ENV PRO	ND	240	110	200	ND	69	ND	ND	-	-
10/26/1992	ENV PRO	5	24	ND	3	ND	ND	ND	ND	-	-
04/21/1993	ENV PRO	60	ND	180	74.2	ND	27	15	ND	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	BNA Only
02/03/1994	21st CEN	41	4.4	19	65	ND	9.1	43	7.0	-	-
03/31/1994	21st CEN	25	ND	ND	ND	ND	ND	ND	ND	-	-
06/14/1994	21st CEN	3	ND	15	3.4	ND	100	ND	5.4	-	-
09/15/1994	21st CEN	ND	ND	ND	1.4	ND	61	ND	ND	-	-
05/25/1995	EMSL	2.7	21	94	190	ND	400	3.8	6.3	-	-
08/15/1995	EMSL	ND	25	89	360	ND	670	ND	8.4	-	-
11/21/1995	EMSL	ND	18	35	91	46	360	ND	ND	-	-
02/20/1996	EMSL	6	ND	40	70	43	250	1	4.5	-	-
06/13/1996	FMETL	0.7	ND	ND	ND	ND	ND	ND	ND	-	-
09/27/1996	FMETL	6.2	ND	ND	ND	ND	ND	ND	ND	-	-
04/11/1997	FMETL	1.8	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
08/28/1997	FMETL	ND	25	ND	ND	940	62	ND	ND	-	V,Pb
12/02/1997	FMETL	10	ND	4.31	ND	ND	188	ND	ND	5340	V,S,P,M
03/04/1998	FMETL	ND	ND	19	8.6	ND	102	ND	ND	13900	V,S,P,M
06/19/1998	FMETL	ND	ND	4.68	ND	27.52	81.82	ND	ND	-	V,Pb
09/25/1998	FMETL	ND	ND	5.96	3.62	ND	27.27	ND	ND	-	V,Pb
12/16/1998	FMETL	ND	ND	15.45	3.67	19.38	20.54	ND	ND	-	V,Pb
02/24/1999	FMETL	1.0	ND	1.03	ND	ND	3.3	ND	ND	-	V,Pb
05/29/1999	FMETL	ND	ND	1.70	1.29	ND	26.34	ND	1.04	-	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	8.98	ND	ND	-	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	ND	13.08	ND	ND	-	V,Pb
02/14/2000	FMETL	1.22	ND	ND	ND	ND	3.78	ND	ND	-	V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 02/14/2000

NOTES:

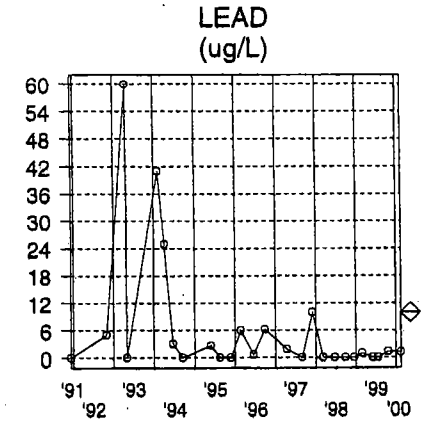
Page 1 of 2.

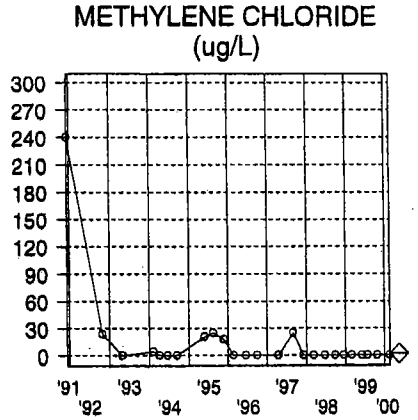
FORT MONMOUTH

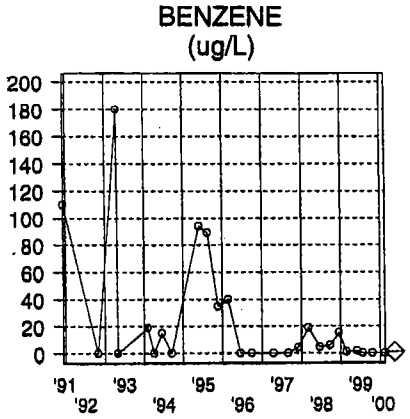
GW MONITORING
Bldg. 2567
Table / Graph A

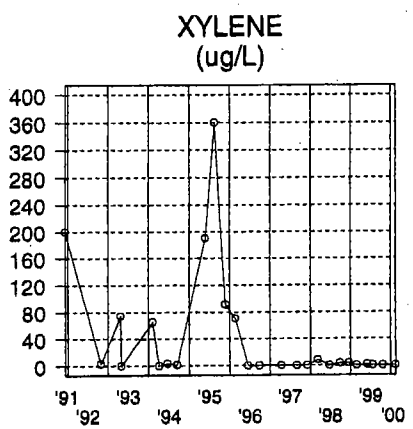
Well 3 of 5

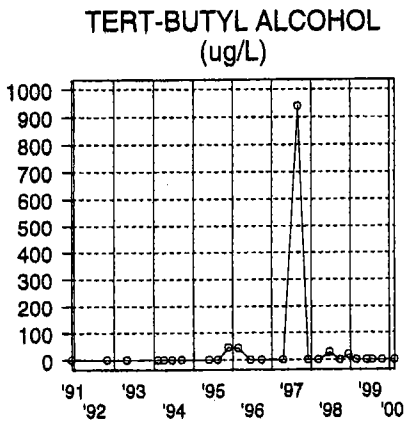
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

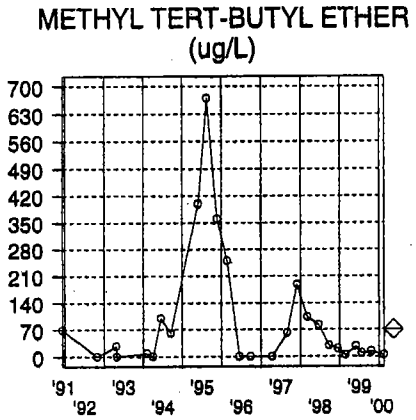


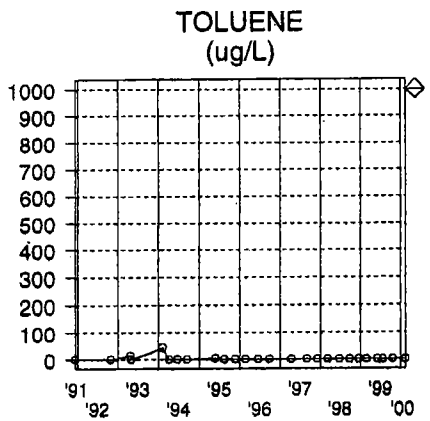


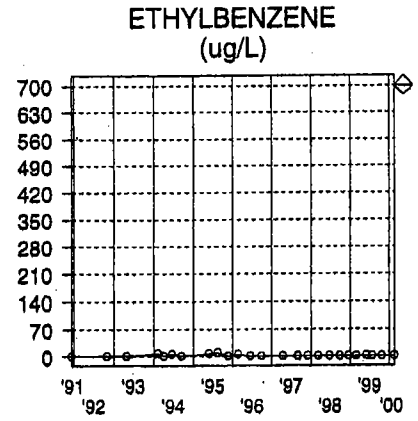


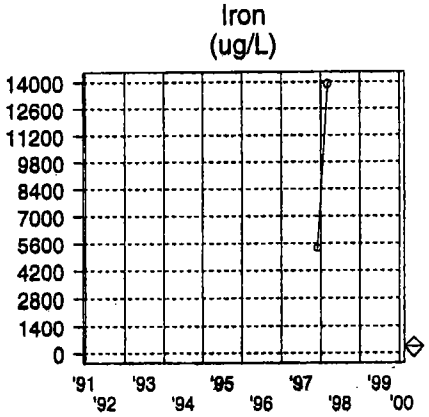












SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 02/14/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-09-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Manganese	Sodium	Depth to Water							NOTES
Units:	-	ug/L	ug/L	Feet							-
NJDEP Criteria:	NA	50	50000	-							-
12/10/1991	ENV PRO	-	-	-							-
10/26/1992	ENV PRO	-	-	-							-
04/21/1993	ENV PRO	-	-	-							-
04/28/1993	21st CEN	-	-	-							BNA Only
02/03/1994	21st CEN	-	-	-							-
03/31/1994	21st CEN	-	-	-							-
06/14/1994	21st CEN	-	-	-							-
09/15/1994	21st CEN	-	-	-							-
05/25/1995	EMSL	-	-	-							-
08/15/1995	EMSL	-	-	-							-
11/21/1995	EMSL	-	-	-							-
02/20/1996	EMSL	-	-	-							-
06/13/1996	FMETL	-	-	-							-
09/27/1996	FMETL	-	-	-							-
04/11/1997	FMETL	-	-	3.15							V,Pb
08/28/1997	FMETL	-	-	4.00							V,Pb
12/02/1997	FMETL	56.6	26900	3.10							V,S,P,M
03/04/1998	FMETL	144	39600	2.48							V,S,P,M
06/19/1998	FMETL	-	-	3.99							V,Pb
09/25/1998	FMETL	-	-	4.56							V,Pb
12/16/1998	FMETL	-	-	4.25							V,Pb
02/24/1999	FMETL	-	-	3.16							V,Pb
05/29/1999	FMETL	-	-	3.55							V,Pb
07/21/1999	FMETL	-	-	4.85							V,Pb
10/21/1999	FMETL	-	-	3.93							V,Pb
02/14/2000	FMETL	-	-	3.42							V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 02/14/2000

NOTES:

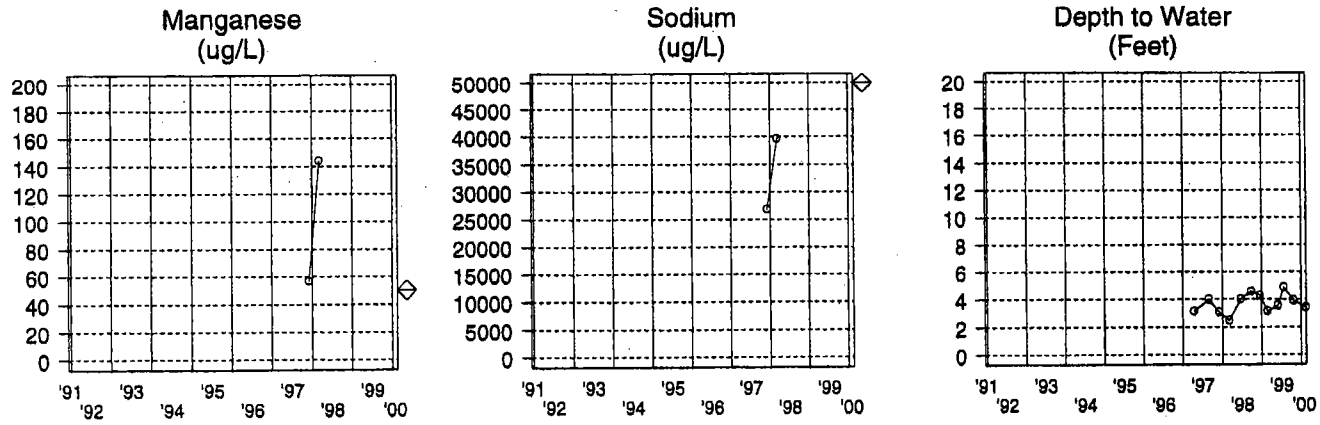
Page 2 of 2.

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 02/14/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-09-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TOLUENE	ETHYL-BENZENE	Iron	Manganese	Sodium	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	1	NLE	1000	700	300	50	50000	-
12/10/1991	EMSL	5	ND	ND	ND	ND	ND	-	-	-	-
10/26/1992	ENV PRO	ND	27	ND	ND	ND	ND	-	-	-	-
04/21/1993	ENV PRO	ND	ND	ND	ND	ND	ND	-	-	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	BNA Only
02/03/1994	21st CEN	ND	5.0	14	60	56	8.9	-	-	-	-
03/31/1994	21st CEN	ND	2.3	ND	ND	ND	ND	-	-	-	-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	ND	-	-	-	-
05/25/1995	EMSL	ND	1.0	ND	ND	ND	ND	-	-	-	-
08/15/1995	EMSL	2.6	1.3	ND	ND	ND	ND	-	-	-	-
11/21/1995	EMSL	ND	0.6	ND	ND	ND	ND	-	-	-	-
02/20/1996	EMSL	ND	1.2	ND	ND	ND	ND	-	-	-	-
06/13/1996	FMETL	1.8	ND	ND	ND	ND	ND	-	-	-	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	-
04/11/1997	FMETL	2.3	ND	ND	ND	ND	ND	-	-	-	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
12/02/1997	FMETL	9.0	ND	ND	ND	ND	ND	3590	90	15600	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	ND	ND	4200	79	12600	V,S,P,M
06/19/1998	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
12/12/1998	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	ND	-	-	-	V,Pb
02/14/2000	FMETL	1.4	ND	ND	ND	ND	ND	-	-	-	V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 02/14/2000

NOTES:

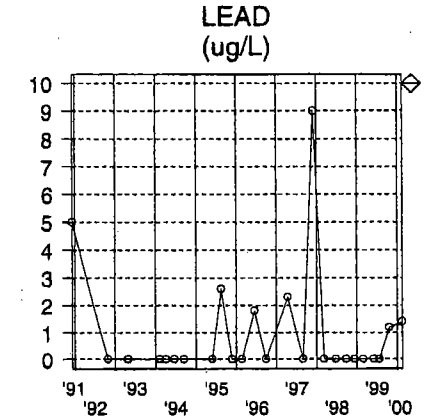
Page 1 of 2.

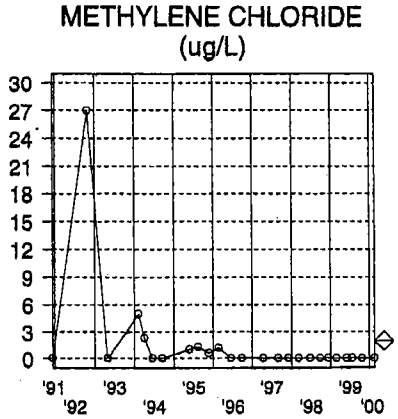
FORT MONMOUTH

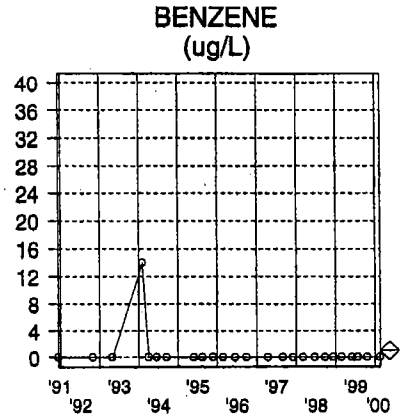
GW MONITORING
Bldg. 2567
Table / Graph A

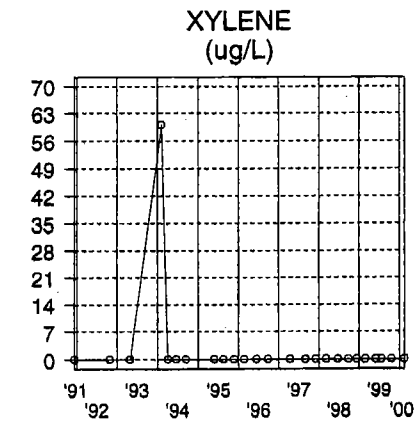
Well 4 of 5

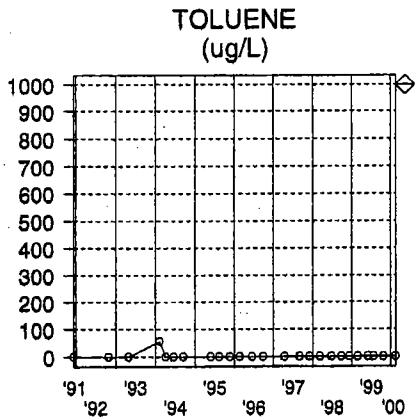
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

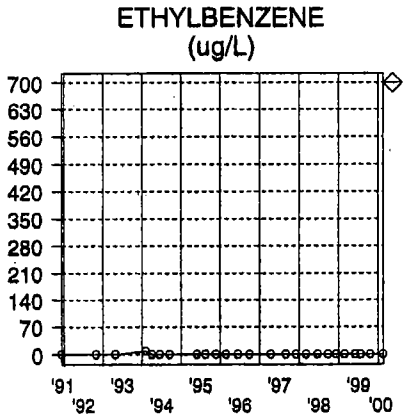


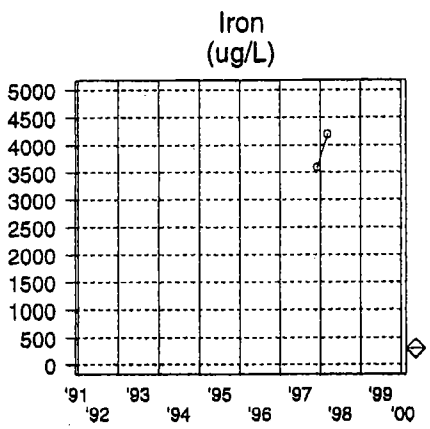


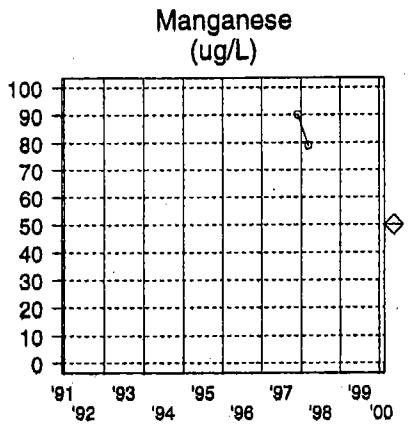


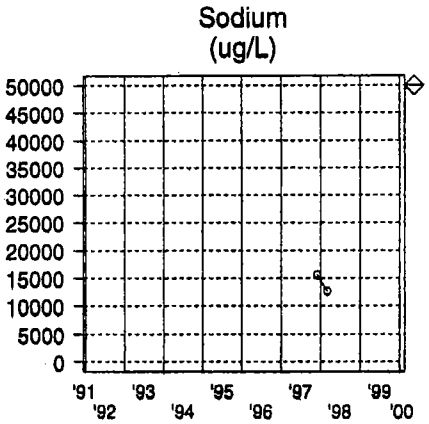












SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 02/14/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 4 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-09-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Depth to Water									NOTES
Units:	-	Feet									-
NJDEP Criteria:	NA	-									-
12/10/1991	EMSL	-									-
10/26/1992	ENV PRO	-									-
04/21/1993	ENV PRO	-									-
04/28/1993	21st CEN	-									BNA Only
02/03/1994	21st CEN	-									-
03/31/1994	21st CEN	-									-
06/14/1994	21st CEN	-									-
09/15/1994	21st CEN	-									-
05/25/1995	EMSL	-									-
08/15/1995	EMSL	-									-
11/21/1995	EMSL	-									-
02/20/1996	EMSL	-									-
06/13/1996	FMETL	-									-
09/27/1996	FMETL	-									-
04/11/1997	FMETL	2.55									V,Pb
08/28/1997	FMETL	3.20									V,Pb
12/02/1997	FMETL	2.45									V,S,P,M
03/04/1998	FMETL	2.11									V,S,P,M
06/19/1998	FMETL	2.33									V,Pb
09/24/1998	FMETL	3.55									V,Pb
12/12/1998	FMETL	3.11									V,Pb
02/24/1999	FMETL	2.44									V,Pb
05/29/1999	FMETL	2.76									V,Pb
07/21/1999	FMETL	3.98									V,Pb
10/21/1999	FMETL	2.37									V,Pb
02/14/2000	FMETL	1.69									V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 02/14/2000

NOTES:

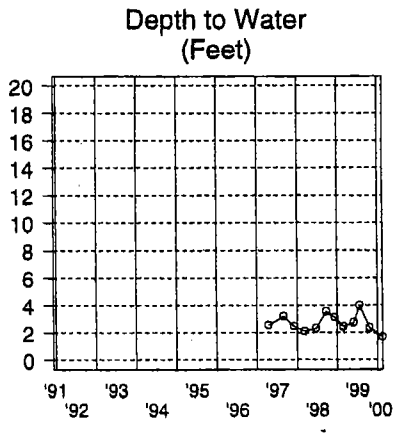
Page 2 of 2.

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 4 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 02/14/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 4 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-09-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	Iron	Manganese	Sodium	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	NA	10	2	300	50	50000	-				-
05/25/1995	EMSL	4.0	1.2	-	-	-	-				-
08/15/1995	EMSL	ND	1.2	-	-	-	-				-
11/21/1995	EMSL	ND	ND	-	-	-	-				-
02/20/1996	EMSL	ND	0.8	-	-	-	-				-
09/27/1996	FMETL	ND	ND	-	-	-	-				-
04/11/1997	FMETL	2.7	ND	-	-	-	7.20				V,Pb
08/28/1997	FMETL	ND	ND	-	-	-	7.50				V,Pb
12/02/1997	FMETL	7.0	ND	19200	100	10500	7.20				V,S,P,M
03/04/1998	FMETL	ND	ND	16400	56	9100	7.30				V,S,P,M
06/01/1998	FMETL	ND	ND	-	-	-	7.55				V,Pb
09/25/1998	FMETL	ND	ND	-	-	-	7.59				V,Pb
12/16/1998	FMETL	ND	ND	-	-	-	7.34				V,Pb
02/24/1999	FMETL	ND	ND	-	-	-	8.16				V,Pb
06/08/1999	FMETL	ND	ND	-	-	-	7.33				V,Pb
07/21/1999	FMETL	ND	ND	-	-	-	7.87				V,Pb
10/21/1999	FMETL	4.4	ND	-	-	-	8.57				V,Pb
02/14/2000	FMETL	1.21	ND	-	-	-	5.75				V,Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 02/14/2000

NOTES:

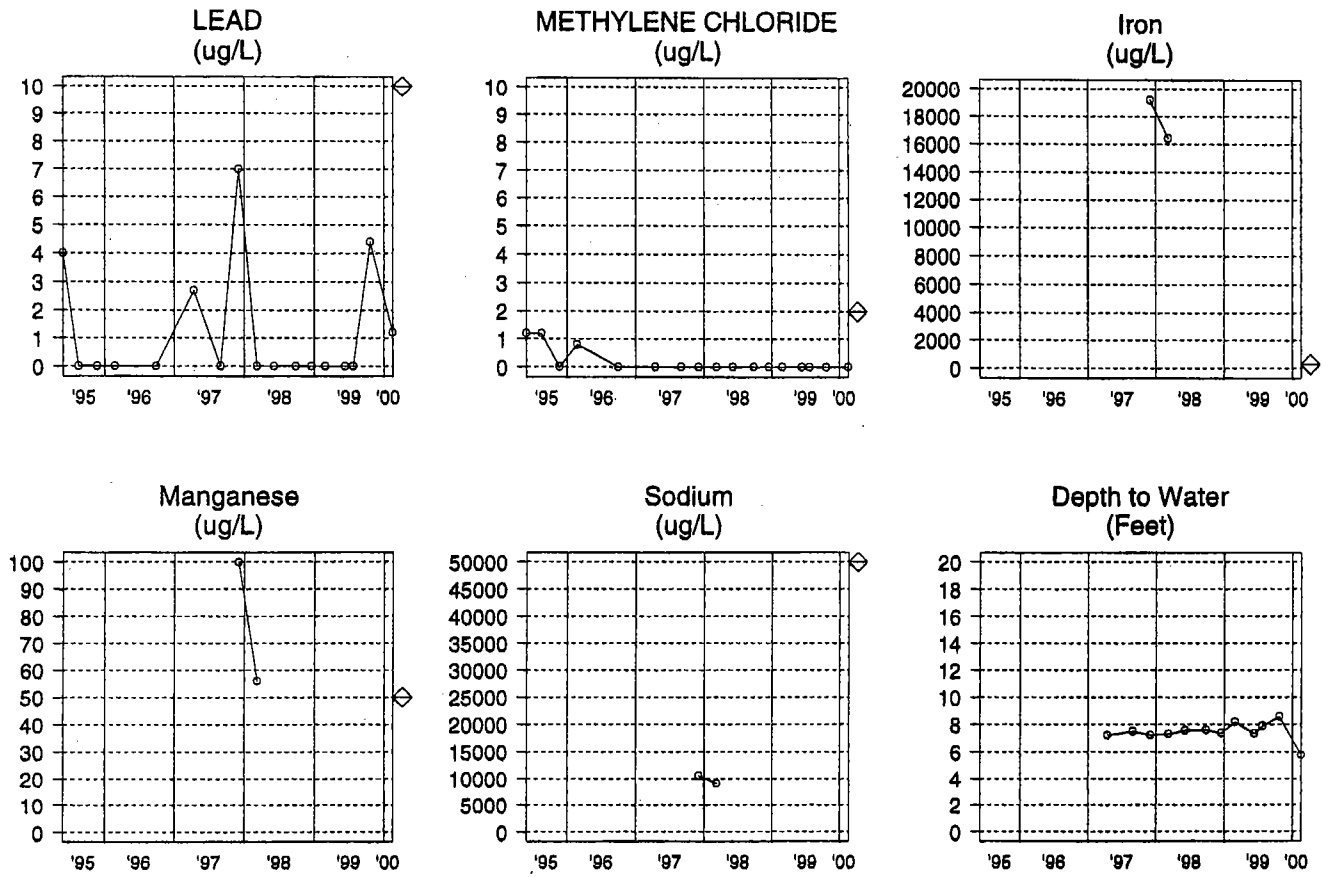
Page 1 of 1.

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 5 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 02/14/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

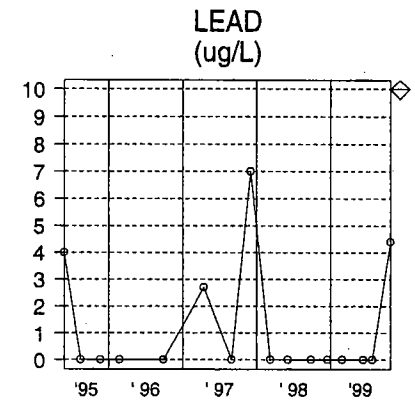
FORT MONMOUTH

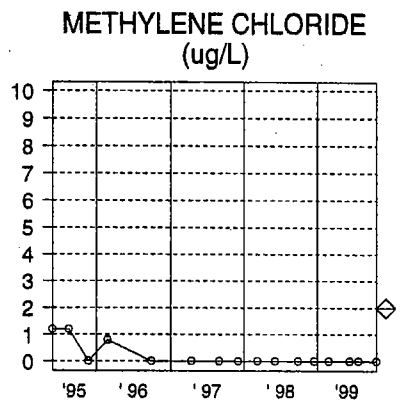
GW MONITORING
Bldg. 2567
Table / Graph A

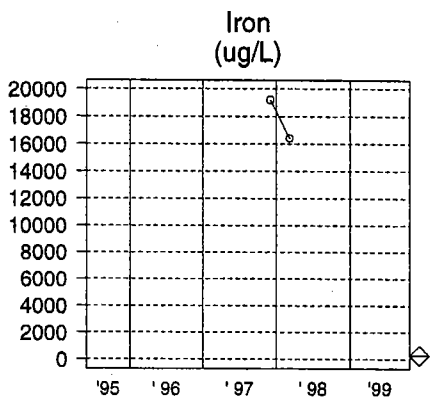
Well 5 of 5, Graph

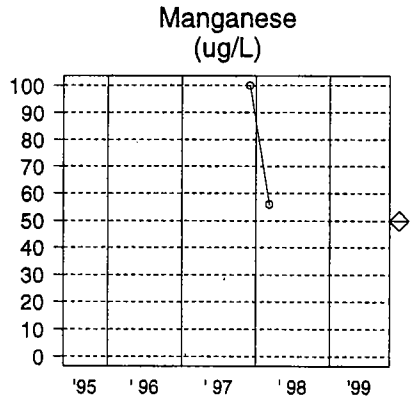
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

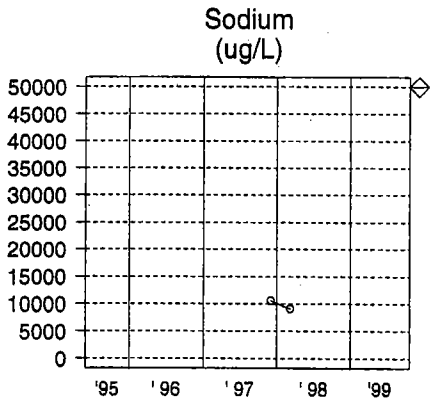
03-09-2000 x:\mtech46\fm\2567\gw\2567.wsf

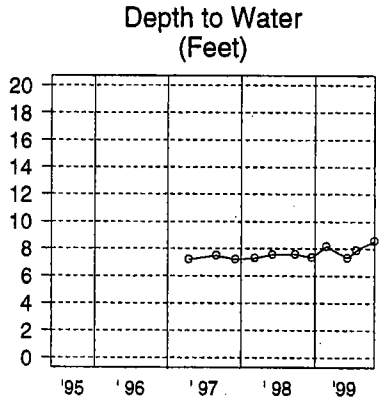












SOURCE: 2567MW05

Sampling Dates:
05/25/95 - 10/21/99

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Crtria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 5 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

01-27-2000 x:\mtech46\fm\2567\gw\256.

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5417.01	2567MW01	29-26925	05/15/00
5417.02	2567MW02	29-26926	05/15/00
5417.03	2567MW03	29-26947	05/15/00
5417.04	2567MW04	29-26948	05/15/00
5417.05	2567MW05	29-31783	05/15/00

NJDEP Laboratory Certification # 13461

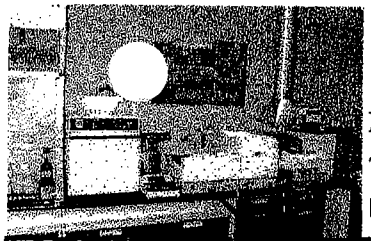
7/6/00

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: 426223
(X)DERA ( )OMA ( )Other:

Project No:
Location: 2567 wells 2nd Qrtr 00

Samplers Name / Company: Corey McCormack, TVS

Analysis Parameters: VOTIS, Pb, Hexane

Comments: HCL/HNO3 / <4°C

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOTIS	Pb						Hexane	Remarks / Preservation Method
5417 .01	2567 MW01	5/15/00	1024	AQ	3	✓	✓						1.2	29-26925
.02	2567 MW02		1010		3	✓	✓						1.0	29-26926
.03	2567 MW03		1029		3	✓	✓						1.5	29-26947
.04	2567 MW04		1034		3	✓	✓						1.0	29-26948
.05	2567 MW05		1412		3	✓	✓						00	29-31783
.06	Trip		0739		3	✓	✓						–	
.07	Field Blank				3	✓	✓						–	
.08	Dupe		—		3	✓	✓						–	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	5/15/00 1500	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: Tide: N/A

print legibly

Coc.xls3/20/00

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/15/00
WEATHER: Overcast, rain.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.04 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: ft
HEIGHT OF WATER: 9.06 ft
(9.06) X .65 X 3 = 17.66
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 1.20 ppm

PURGE START TIME: 09:05
pH 6.87 su
DISSOLVED O2 5.11 ppm
TEMP 13.0 °C
SPECIFIC CONDUCTIVITY 79 us/cm

PURGE END TIME: 10:23
pH 6.89 su
DISSOLVED O2 4.25 ppm
TEMP 12.7 °C
SPECIFIC CONDUCTIVITY 80 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.24 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:24
pH 6.90 su
DISSOLVED O2 4.23 ppm
TEMP 12.6 °C
SPECIFIC CONDUCTIVITY 81 us/cm

SAMPLE END TIME: 10:27

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/15/00
WEATHER: Sunny, Warm
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.77 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: ft
HEIGHT OF WATER: 8.43 ft
(8.43) X .65 X 3 = 16.43
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 1.00 ppm

PURGE START TIME: 09:00
pH 6.57 su
DISSOLVED O2 5.66 ppm
TEMP 13.0 °C
SPECIFIC CONDUCTIVITY 91 us/cm

PURGE END TIME: 10:09
pH 6.49 su
DISSOLVED O2 4.87 ppm
TEMP 12.9 °C
SPECIFIC CONDUCTIVITY 93 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.54 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 10:10
pH 6.47 su
DISSOLVED O2 4.81 ppm
TEMP 12.8 °C
SPECIFIC CONDUCTIVITY 94 us/cm

SAMPLE END TIME: 10:13

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/15/00
WEATHER: Sunny, Warm
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.40 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: ft
HEIGHT OF WATER: 9.10 ft
(9.10) X .65 X 3 = 17.74
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 1.50 ppm

PURGE START TIME: 09:10
pH 6.79 su
DISSOLVED O2 5.04 ppm
TEMP 13.0 °C
SPECIFIC CONDUCTIVITY 171 us/cm

PURGE END TIME: 10:28
pH 6.76 su
DISSOLVED O2 4.61 ppm
TEMP 12.8 °C
SPECIFIC CONDUCTIVITY 168 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.44 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:29
pH 6.71 su
DISSOLVED O2 4.57 ppm
TEMP 12.7 °C
SPECIFIC CONDUCTIVITY 167 us/cm

SAMPLE END TIME: 10:31

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/15/00
WEATHER: Sunny, Warm
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.65 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: ft
HEIGHT OF WATER: 9.01 ft
(9.01) X .65 X 3 = 17.56
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 1.00 ppm

PURGE START TIME: 09:15
pH 6.91 su
DISSOLVED O2 6.07 ppm
TEMP 13.0 °C
SPECIFIC CONDUCTIVITY 77 us/cm

PURGE END TIME: 10:33
pH 6.89 su
DISSOLVED O2 5.37 ppm
TEMP 12.6 °C
SPECIFIC CONDUCTIVITY 79 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.13 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:34
pH 6.90 su
DISSOLVED O2 5.34 ppm
TEMP 12.7 °C
SPECIFIC CONDUCTIVITY 80 us/cm

SAMPLE END TIME: 10:37

COMMENTS: Dupe here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/15/00
WEATHER: Sunny, Warm
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.92 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: ft
HEIGHT OF WATER: 7.83 ft
(7.83) X .65 X 3 = 15.26
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.00 ppm

PURGE START TIME: 13:06
pH 7.07 su
TEMP 13.1 °C
DISSOLVED O2 6.01 ppm
SPECIFIC CONDUCTIVITY 68 us/cm

PURGE END TIME: 14:11
pH 7.01 su
TEMP 12.6 °C
DISSOLVED O2 5.37 ppm
SPECIFIC CONDUCTIVITY 67 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.32 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 14:12
pH 7.00 su
TEMP 12.7 °C
DISSOLVED O2 5.36 ppm
SPECIFIC CONDUCTIVITY 69 us/cm

SAMPLE END TIME: 14:13

COMMENTS:

VOLATILES

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	: Method Detection Limit
J	: Compound Identified Below Detection Limit
B	: Compound is in Both Sample and Blank
D	: Results are from a Dilution of the Sample
U	: Compound Searched for but not Detected
E	: Compound Exceeds Calibration Limit

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB006882.D	Sample Name	Vblk210
Operator	Skelton	Field ID	Vblk210
Date Acquired	16 May 2000 2:51 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

5/18/00 1:41 PM

C:\Hpchem\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Vblk210

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5417 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: Vblk210

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006882.D

Level: (low/med) LOW Date Received: 5/15/00

% Moisture: not dec. _____ Date Analyzed: 5/16/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB006907.D	Sample Name	5417.06
Operator	Skelton	Field ID	Trip Blank
Date Acquired	17 May 2000 7:40 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	11.44	63332	3.04 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

5/18/00 1:41 PM

C:\Hpchem\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5417 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5417.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006907.D

Level: (low/med) LOW Date Received: 5/15/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB006908.D	Sample Name	5417.07
Operator	Skelton	Field ID	Field Blank
Date Acquired	17 May 2000 8:20 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	11.45	49046	2.42 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

5/18/00 1:41 PM

C:\Hpchem\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5417 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5417.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006908.D

Level: (low/med) LOW Date Received: 5/15/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB006909.D	Sample Name	5417.08
Operator	Skelton	Field ID	Dupe
Date Acquired	17 May 2000 8:59 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

5/18/00 1:41 PM

C:\Hpchem\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5417 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5417.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006909.D

Level: (low/med) LOW Date Received: 5/15/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB006902.D	Sample Name	5417.01
Operator	Skelton	Field ID	2567MW01
Date Acquired	17 May 2000 4:21 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	10.24	599051	458.88 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	12.11	217762	5.24 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

5/18/00 1:41 PM

C:\Hpchem\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW01

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5417 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5417.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006902.D

Level: (low/med) LOW Date Received: 5/15/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB006903.D	Sample Name	5417.02
Operator	Skelton	Field ID	2567MW02
Date Acquired	17 May 2000 5:01 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

5/18/00 1:41 PM

C:\Hpchem\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW02

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5417 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5417.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006903.D

Level: (low/med) LOW Date Received: 5/15/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB006904.D	Sample Name	5417.03
Operator	Skelton	Field ID	2567MW03
Date Acquired	17 May 2000 5:41 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	12.10	374215	9.35 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

5/18/00 1:41 PM

C:\Hpchem\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW03

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5417 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5417.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006904.D

Level: (low/med) LOW Date Received: 5/15/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 2

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.49	14	JN
2. 000096-37-7	Cyclopentane, methyl-	15.41	12	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB006905.D	Sample Name	5417.04
Operator	Skelton	Field ID	2567MW04
Date Acquired	17 May 2000 6:21 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

5/18/00 1:41 PM

C:\Hpchem\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW04

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5417 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5417.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006905.D

Level: (low/med) LOW Date Received: 5/15/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB006906.D	Sample Name	5417.05
Operator	Skelton	Field ID	2567MW05
Date Acquired	17 May 2000 7:00 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

5/18/00 1:41 PM

C:\Hpchem\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW05

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5417 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5417.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006906.D

Level: (low/med) LOW Date Received: 5/15/00

% Moisture: not dec. Date Analyzed: 5/17/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5417.01-.05, .07-.08
Sample Received: 05/15/00
Analysis Start: 05/23/00
Analysis Completed: 05/23/00

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
5417.01	2567MW01	ND	10	0.8
5417.02	2567MW02	ND	10	0.8
5417.03	2567MW03	ND	10	0.8
5417.04	2567MW04	ND	10	0.8
5417.05	2567MW05	ND	10	0.8
5417.07	Field Blank	ND	10	0.8
5417.08	Dupe	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 05/23/00
Analysis Completed: 05/23/00

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	METHY-LENE CHLORIDE	1,2-DI-CHLORO-ETHANE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	BROMODI-CHLORO-METHANE	1,2-DI-CHLORO-PROPANE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	2	1	NLE	NLE	70	1	1	-
12/10/1991	ENV PRO	4	240	55	2400	42	4400	2200	ND	ND	-
10/26/1992	ENV PRO	ND	420	ND	2800	302	5400	1200	77	62	-
10/26/1992D	ENV PRO	ND	130	ND	3200	57	7000	1500	ND	ND	-
04/21/1993	21st CEN	70	16	ND	520	ND	470	890	ND	ND	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/1994	21st CEN	ND	26	ND	21	41	28	650	ND	ND	-
03/31/1994	21st CEN	ND	ND	ND	ND	ND	22	10	ND	ND	-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	120	88	ND	ND	-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	600	56	ND	ND	-
05/25/1995	EMSL	ND	1.5	ND	ND	ND	930	110	ND	ND	-
08/15/1995	EMSL	3.3	1.3	ND	ND	ND	930	29	ND	ND	-
11/21/1995	EMSL	ND	36	ND	ND	ND	860	80	ND	ND	-
02/20/1996	EMSL	4	2.1	ND	ND	ND	780	100	ND	ND	-
06/13/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	2.5	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	1.4	ND	ND	39.4	72.7	ND	240	ND	ND	V,Pb
12/02/1997	FMETL	7.0	ND	ND	ND	ND	357	20.3	ND	ND	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	ND	560	37	ND	ND	V,S,P,M
06/01/1998	FMETL	0.5	ND	ND	ND	ND	95.63	24.23	ND	ND	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	283	10.02	ND	ND	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	143.26	3.43	ND	ND	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	675	26.15	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	605.1	9.16	ND	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	155.56	3.33	ND	ND	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	ND	497.3	4.8	ND	ND	V,Pb
02/14/2000	FMETL	1.31	ND	ND	ND	ND	992	8.2	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	458.88	5.24	ND	ND	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/15/2000

NOTES:

Page 1 of 4.

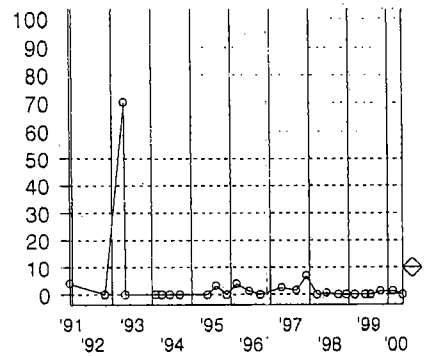
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

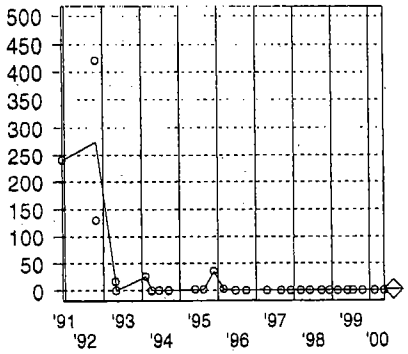
Well 1 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

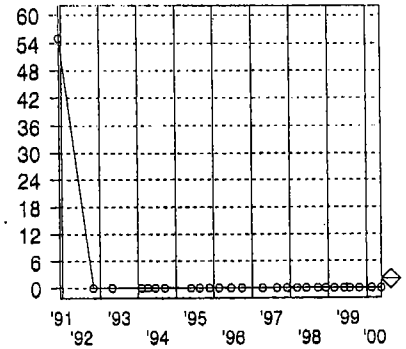
LEAD
(ug/L)



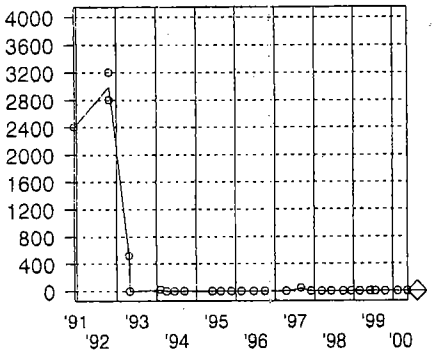
METHYLENE CHLORIDE
(ug/L)



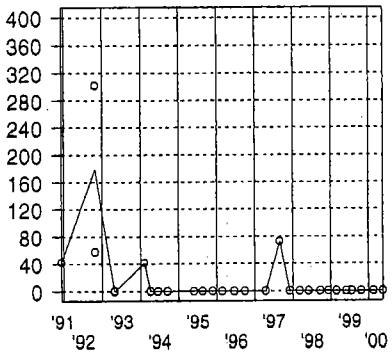
1,2-DICHLOROETHANE
(ug/L)



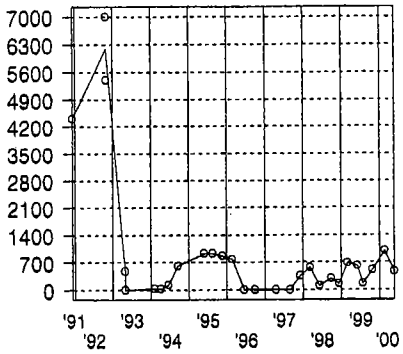
BENZENE
(ug/L)



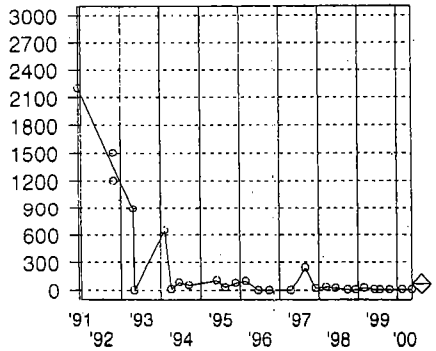
XYLENE
(ug/L)



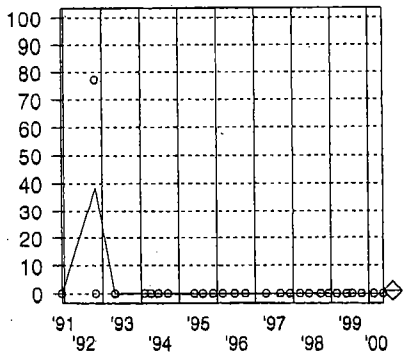
TERT-BUTYL ALCOHOL
(ug/L)



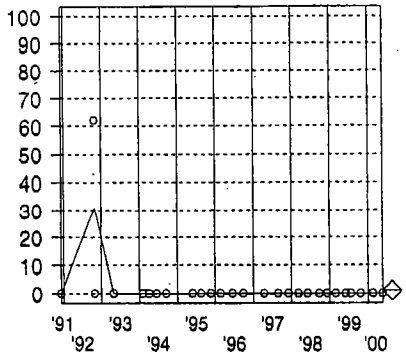
METHYL TERT-BUTYL ETHER
(ug/L)



BROMODICHLOROMETHANE
(ug/L)



1,2-DICHLOROPROPANE
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/15/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

07-05-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	CIS-1,3-DI-CHLORO-PROPENE	TRI-CHLORO-ETHENE	DIBROMO-CHLORO-METHANE	1,1,2-TRI-CHLORO-ETHANE	TRANS-1,3 DICHLORO PROPENE	BROMO-FORM	TETRA-CHLORO-ETHENE	1,1,2,2-TETRACHLORO ETHANE	TOLUENE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	NLE	1	10	3	NLE	4	1	2	1000	-
12/10/1991	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/1992	ENV PRO	48	32	130	140	220	140	51	170	73	-
10/26/1992D	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/21/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	66	-
03/31/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
05/25/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	0.7	-
08/15/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
11/21/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
02/20/1996	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	1.3	V,Pb
12/02/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
10/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/14/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/15/2000

NOTES:

Page 2 of 4.

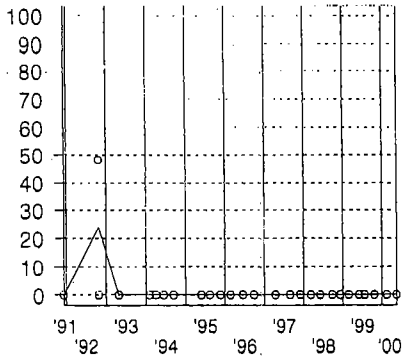
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

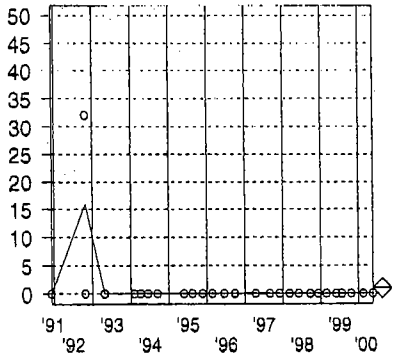
Well 1 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

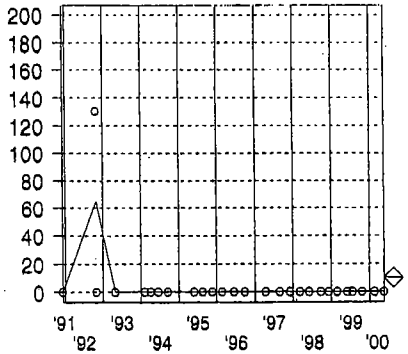
CIS-1,3-DICHLOROPROPENE
(ug/L)



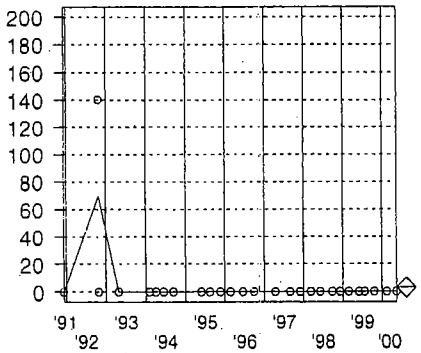
TRICHLOROETHENE
(ug/L)



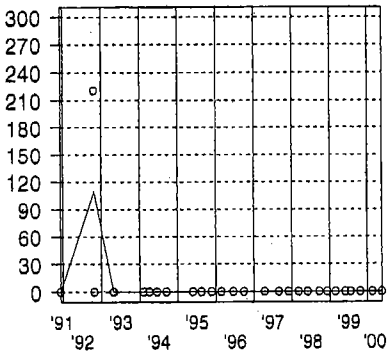
DIBROMOCHLOROMETHANE
(ug/L)



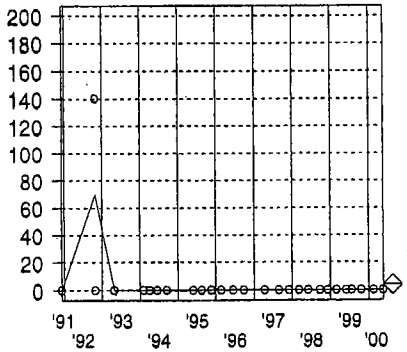
1,1,2-TRICHLOROETHANE
(ug/L)



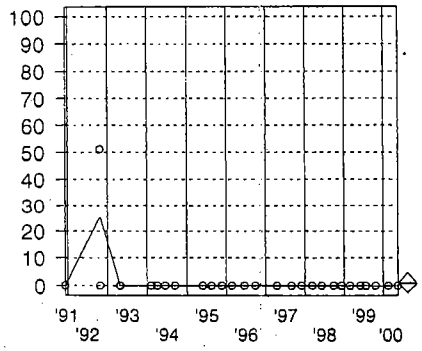
TRANS-1,3-DICHLOROPROPENE
(ug/L)



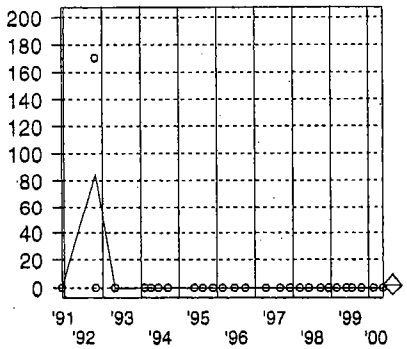
BROMOFORM
(ug/L)



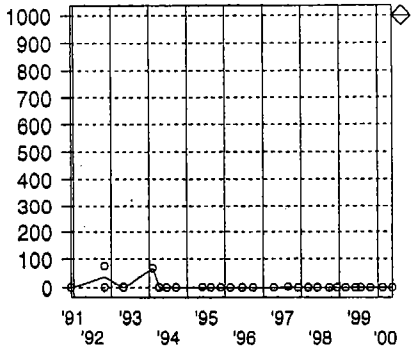
TETRACHLOROETHENE
(ug/L)



1,1,2,2-TETRACHLOROETHANE
(ug/L)



TOLUENE
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/15/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

07-05-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	CHLORO-BENZENE	ETHYL-BENZENE	STYRENE	1,3-DI-CHLORO-BENZENE	1,2-DI-CHLORO-BENZENE	1,4-DI-CHLORO-BENZENE	ACETONE	BUTYLBENZYLPHTH-ALATE	Depth to Water	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet	-
NJDEP Criteria:	NA	4	700	100	600	600	75	700	100	-	-
12/10/1991	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	-	-
10/26/1992	ENV PRO	99	90	84	100	120	120	ND	ND	-	-
10/26/1992D	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	-	-
04/21/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	12	-	BNA Only
02/03/1994	21st CEN	ND	16	ND	ND	ND	ND	54	ND	-	-
03/31/1994	21st CEN	ND	ND	ND	ND	ND	ND	6.9	ND	-	-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	-
05/25/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
08/15/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
11/21/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
02/20/1996	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	-
04/11/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	-	3.80	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	-	4.80	V,Pb
12/02/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	3.90	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	3.51	V,S,P,M
06/01/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	-	4.06	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	-	5.21	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	-	4.90	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	-	3.75	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	-	4.20	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	-	5.48	V,Pb
10/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	-	4.03	V,Pb
02/14/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	-	3.31	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	-	4.04	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/15/2000

NOTES:

Page 3 of 4.

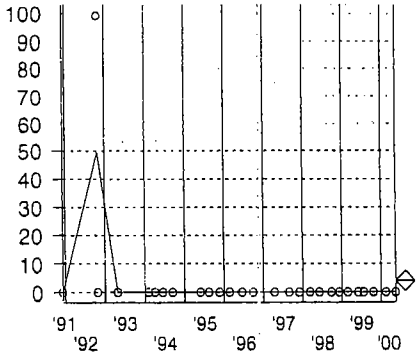
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

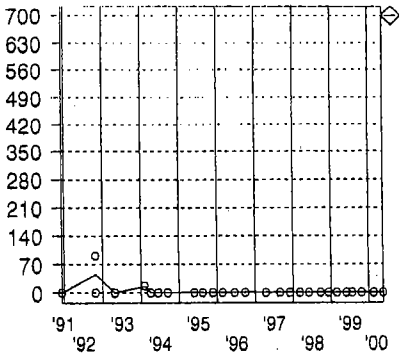
Well 1 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

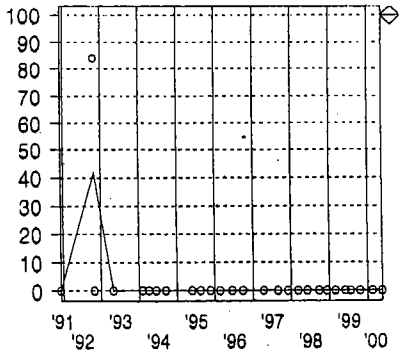
CHLOROBENZENE
(ug/L)



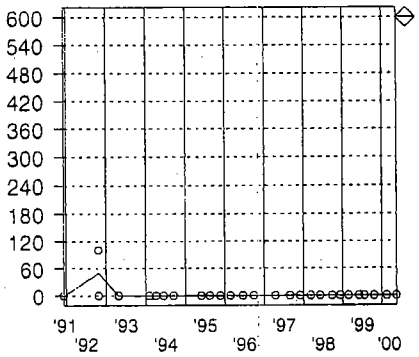
ETHYLBENZENE
(ug/L)



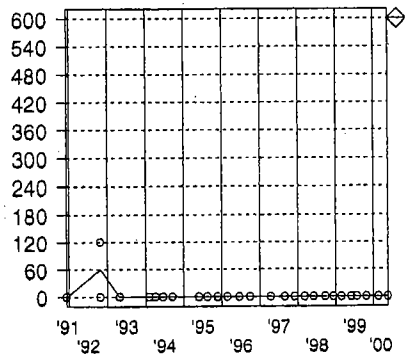
STYRENE
(ug/L)



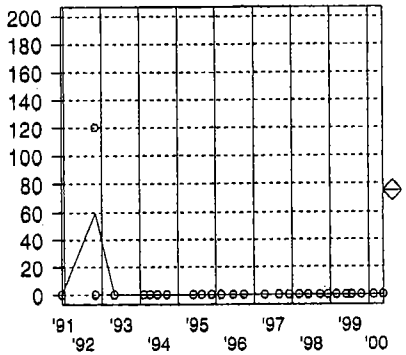
1,3-DICHLOROBENZENE
(ug/L)



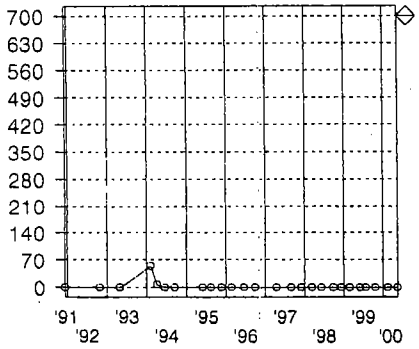
1,2-DICHLOROBENZENE
(ug/L)



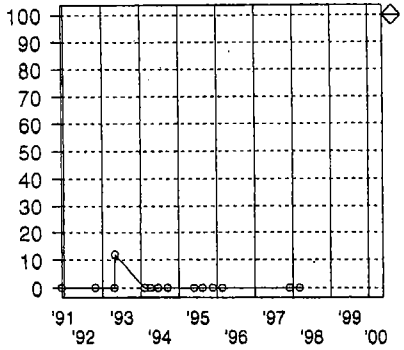
1,4 DICHLOROBENZENE
(ug/L)



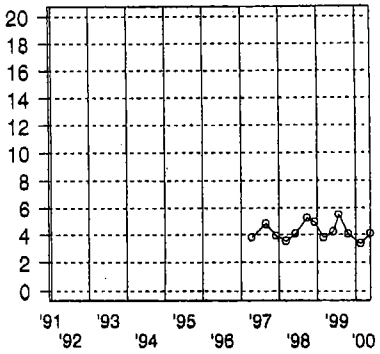
ACETONE
(ug/L)



BUTYLBENZYLPHTHALATE
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/15/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

07-05-2000 x:\mtech46\fm\2567\gw\2567.wsl

	LAB	Manganese	Iron	Sodium							NOTES
Units:	-	ug/L	ug/L	ug/L							-
NJDEP Criteria:	NA	50	300	50000							-
12/10/1991	ENV PRO	-	-	-							-
10/26/1992	ENV PRO	-	-	-							-
10/26/1992D	ENV PRO	-	-	-							-
04/21/1993	21st CEN	-	-	-							-
04/28/1993	21st CEN	-	-	-							BNA Only
02/03/1994	21st CEN	-	-	-							-
03/31/1994	21st CEN	-	-	-							-
06/14/1994	21st CEN	-	-	-							-
09/15/1994	21st CEN	-	-	-							-
05/25/1995	EMSL	-	-	-							-
08/15/1995	EMSL	-	-	-							-
11/21/1995	EMSL	-	-	-							-
02/20/1996	EMSL	-	-	-							-
06/13/1996	FMETL	-	-	-							-
09/27/1996	FMETL	-	-	-							-
04/11/1997	FMETL	-	-	-							V,Pb
08/28/1997	FMETL	-	-	-							V,Pb
12/02/1997	FMETL	93	4110	76000							V,S,P,M
03/04/1998	FMETL	108	5800	48900							V,S,P,M
06/01/1998	FMETL	-	-	-							V,Pb
09/24/1998	FMETL	-	-	-							V,Pb
12/09/1998	FMETL	-	-	-							V,Pb
02/24/1999	FMETL	-	-	-							V,Pb
05/29/1999	FMETL	-	-	-							V,Pb
07/21/1999	FMETL	-	-	-							V,Pb
10/21/1999	FMETL	-	-	-							V,Pb
02/14/2000	FMETL	-	-	-							V,Pb
05/15/2000	FMETL	-	-	-							V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/15/2000

NOTES:

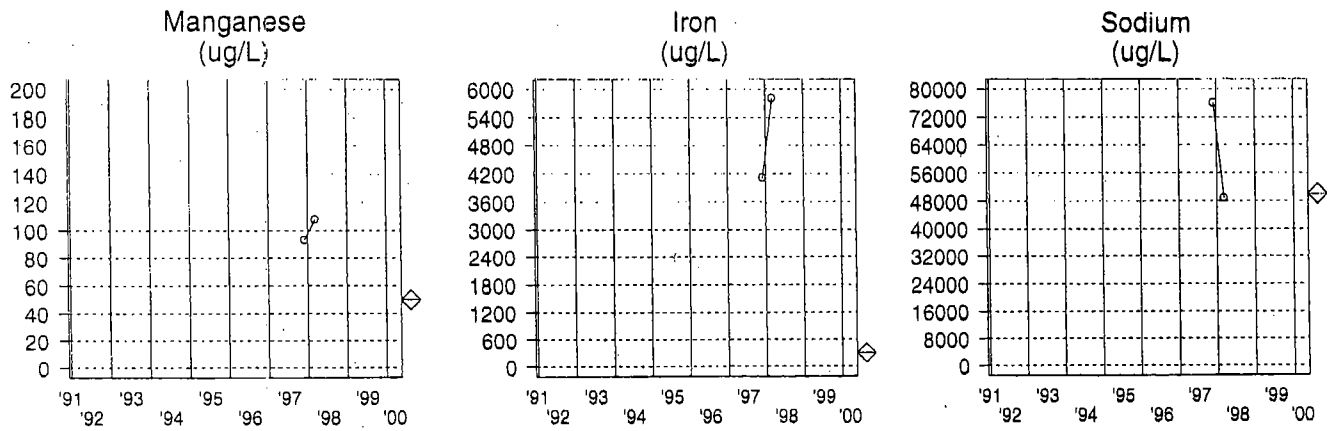
Page 4 of 4.

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/15/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 1 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

07-05-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	BUTYLBENZYLPHTH-ALATE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	1	NLE	70	1000	700	700	100	-
12/10/1991	ENV PRO	ND	7	3	ND	ND	ND	ND	ND	ND	-
10/26/1992	ENV PRO	11	23	ND	3	ND	ND	ND	ND	ND	-
04/21/1993	ENV PRO	ND	ND	ND	2.0	ND	ND	ND	2.5	ND	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	18	BNA Only
02/03/1994	21st CEN	260	4.0	19	43	7.0	55	7.4	ND	ND	-
03/31/1994	21st CEN	ND	17	ND	2.5	11	ND	ND	140	ND	-
06/14/1994	21st CEN	ND	ND	ND	3.0	11	ND	1.1	ND	ND	-
09/15/1994	21st CEN	ND	ND	ND	5.5	4.1	1.8	1.2	ND	ND	-
05/25/1995	EMSL	ND	0.9	ND	6.5	3.1	ND	0.8	ND	ND	-
08/15/1995	EMSL	5.6	1.3	ND	5.3	2.5	ND	ND	ND	ND	-
11/21/1995	EMSL	ND	0.6	ND	3.6	1.6	ND	ND	ND	ND	-
02/20/1996	EMSL	ND	2.0	ND	4.2	2	ND	ND	ND	ND	-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	10.7	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/02/1997	FMETL	20	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/1998	FMETL	8.0	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/1998	FMETL	1.4	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/14/2000	FMETL	1.49	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 05/15/2000

NOTES:

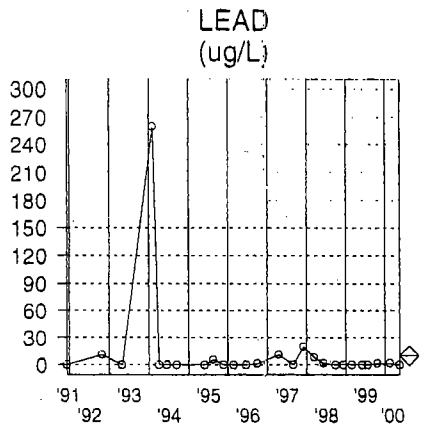
Page 1 of 2.

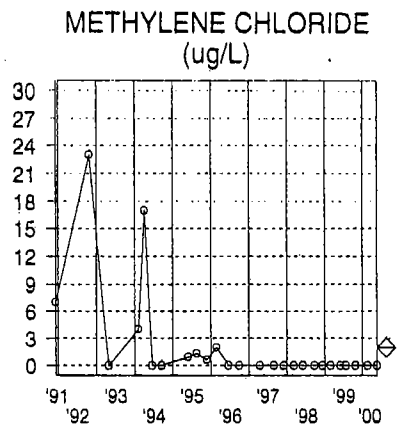
FORT MONMOUTH

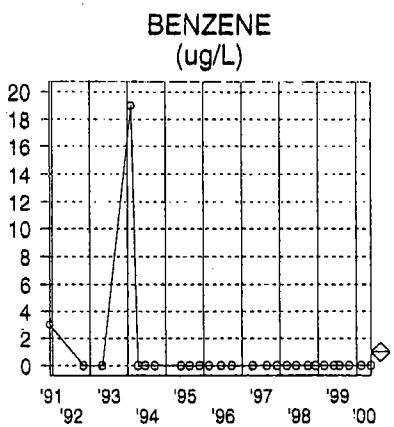
-GW MONITORING
Bldg. 2567
Table / Graph A

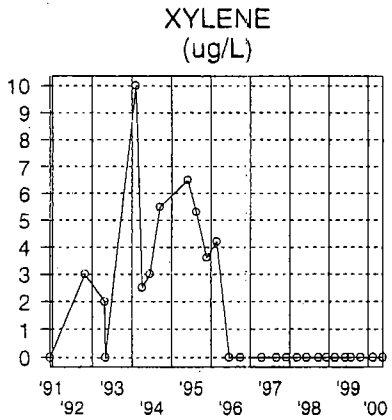
Well 2 of 5

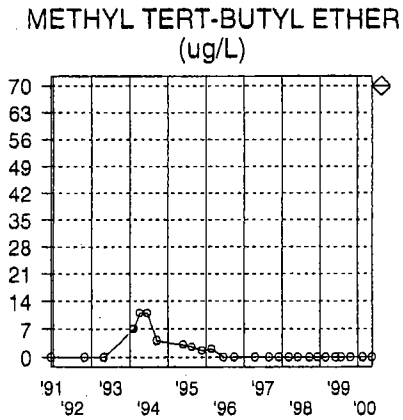
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

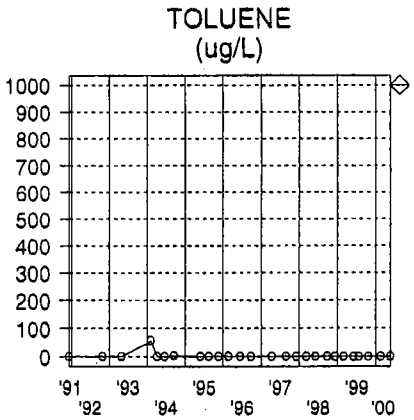


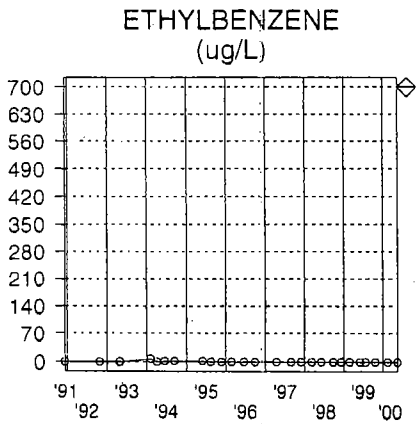


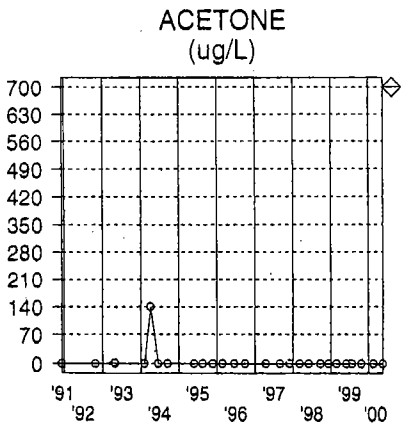


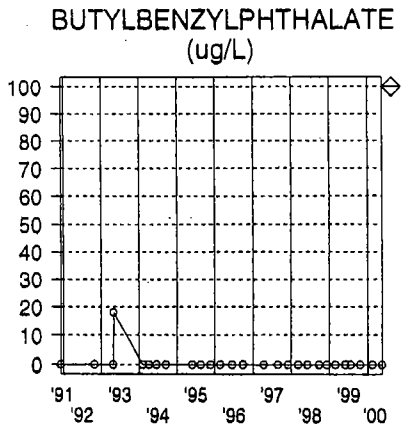












SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 05/15/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 2 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

07-05-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	NAPTH-ALENE	CARBON DISULFIDE	1,2,4-TRI-METHYL-BENZENE	Depth to Water	Iron	Manganese	Sodium			NOTES
Units:	-	ug/L	ug/L	ug/l	Feet	ug/L	ug/L	ug/L			-
NJDEP Criteria:	NA	NLE	NLE	NLE	-	300	50	50000			-
12/10/1991	ENV PRO	ND	ND	ND	-	-	-	-			-
10/26/1992	ENV PRO	ND	ND	ND	-	-	-	-			-
04/21/1993	ENV PRO	ND	ND	ND	-	-	-	-			-
04/28/1993	21st CEN	ND	ND	ND	-	-	-	-			BNA Only
02/03/1994	21st CEN	ND	3.1	ND	-	-	-	-			-
03/31/1994	21st CEN	ND	ND	ND	-	-	-	-			-
06/14/1994	21st CEN	ND	ND	ND	-	-	-	-			-
09/15/1994	21st CEN	ND	ND	ND	-	-	-	-			-
05/25/1995	EMSL	11	ND	8.8	-	-	-	-			-
08/15/1995	EMSL	11	ND	8.2	-	-	-	-			-
11/21/1995	EMSL	7.3	ND	4.6	-	-	-	-			-
02/20/1996	EMSL	7.2	ND	6.2	-	-	-	-			-
06/13/1996	FMETL	ND	-	-	-	-	-	-			-
09/27/1996	FMETL	ND	-	-	-	-	-	-			-
04/11/1997	FMETL	ND	-	-	3.40	-	-	-			V,Pb
08/28/1997	FMETL	ND	-	-	4.30	-	-	-			V,Pb
12/02/1997	FMETL	4.79	ND	ND	3.45	16300	272	58700			V,S,P,M
03/04/1998	FMETL	1.67	ND	ND	2.92	12400	100	26600			V,S,P,M
06/01/1998	FMETL	-	-	-	3.59	-	-	-			V,Pb
09/24/1998	FMETL	-	-	-	4.73	-	-	-			V,Pb
12/09/1998	FMETL	-	-	-	3.42	-	-	-			V,Pb
02/24/1999	FMETL	-	-	-	3.38	-	-	-			V,Pb
05/29/1999	FMETL	-	-	-	3.83	-	-	-			V,Pb
07/21/1999	FMETL	-	-	-	5.03	-	-	-			V,Pb
10/21/1999	FMETL	-	-	-	3.65	-	-	-			V,Pb
02/14/2000	FMETL	-	-	-	3.00	-	-	-			V,Pb
05/15/2000	FMETL	-	-	-	3.77	-	-	-			V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 05/15/2000

NOTES:

Page 2 of 2.

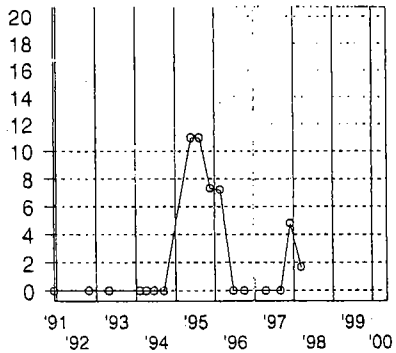
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

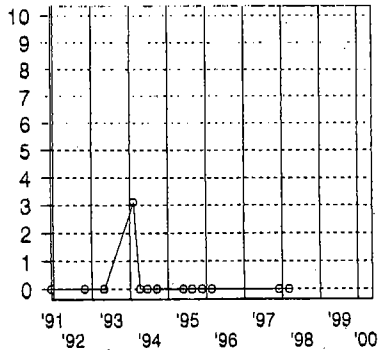
Well 2 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

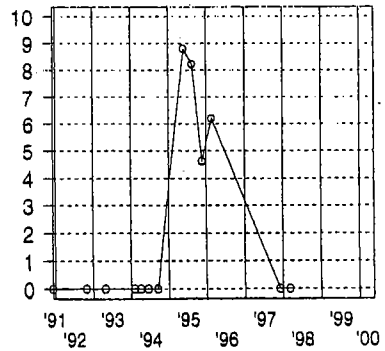
NAPHTHALENE
(ug/L)



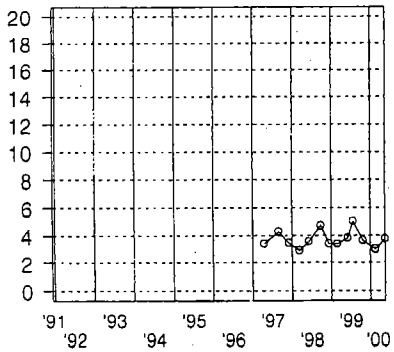
CARBON DISULFIDE
(ug/L)



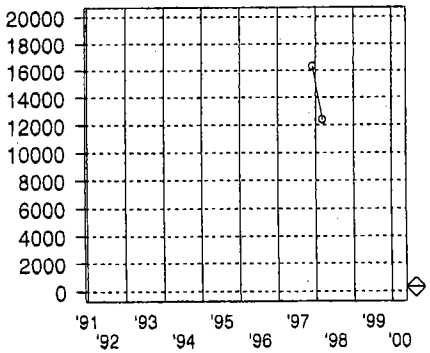
1,2,4-TRIMETHYLBENZENE
(ug/l)



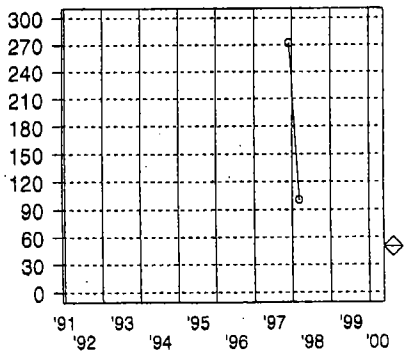
Depth to Water
(Feet)



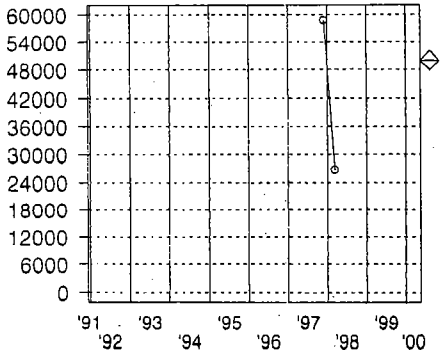
Iron
(ug/L)



Manganese
(ug/L)



Sodium
(ug/L)



SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 05/15/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 2 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

07-05-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	1	NLE	NLE	70	1000	700	700	-
12/10/1991	ENV PRO	ND	240	110	200	ND	69	ND	ND	ND	-
10/26/1992	ENV PRO	5	24	ND	3	ND	ND	ND	ND	1	-
04/21/1993	ENV PRO	60	ND	180	74.2	ND	27	15	ND	7.7	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/1994	21st CEN	41	4.4	19	65	ND	9.1	43	7.0	ND	-
03/31/1994	21st CEN	25	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/1994	21st CEN	3	ND	15	3.4	ND	100	ND	5.4	ND	-
09/15/1994	21st CEN	ND	ND	ND	1.4	ND	61	ND	ND	ND	-
05/25/1995	EMSL	2.7	21	94	190	ND	400	3.8	6.3	ND	-
08/15/1995	EMSL	ND	25	89	360	ND	670	ND	8.4	ND	-
11/21/1995	EMSL	ND	18	35	91	46	360	ND	ND	ND	-
02/20/1996	EMSL	6	ND	40	70	43	250	1	4.5	ND	-
06/13/1996	FMETL	0.7	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	6.2	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	1.8	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	ND	25	ND	ND	940	62	ND	ND	ND	V,Pb
12/02/1997	FMETL	10	ND	4.31	ND	ND	188	ND	ND	ND	V,S,P,M
03/04/1998	FMETL	ND	ND	19	8.6	ND	102	ND	ND	ND	V,S,P,M
06/19/1998	FMETL	ND	ND	4.68	ND	27.52	81.82	ND	ND	ND	V,Pb
09/25/1998	FMETL	ND	ND	5.96	3.62	ND	27.27	ND	ND	ND	V,Pb
12/16/1998	FMETL	ND	ND	15.45	3.67	19.38	20.54	ND	ND	ND	V,Pb
02/24/1999	FMETL	1.0	ND	1.03	ND	ND	3.3	ND	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	1.70	1.29	ND	26.34	ND	1.04	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	8.98	ND	ND	ND	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	ND	13.08	ND	ND	ND	V,Pb
02/14/2000	FMETL	1.22	ND	ND	ND	ND	3.78	ND	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	9.35	ND	ND	ND	V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 05/15/2000

NOTES:

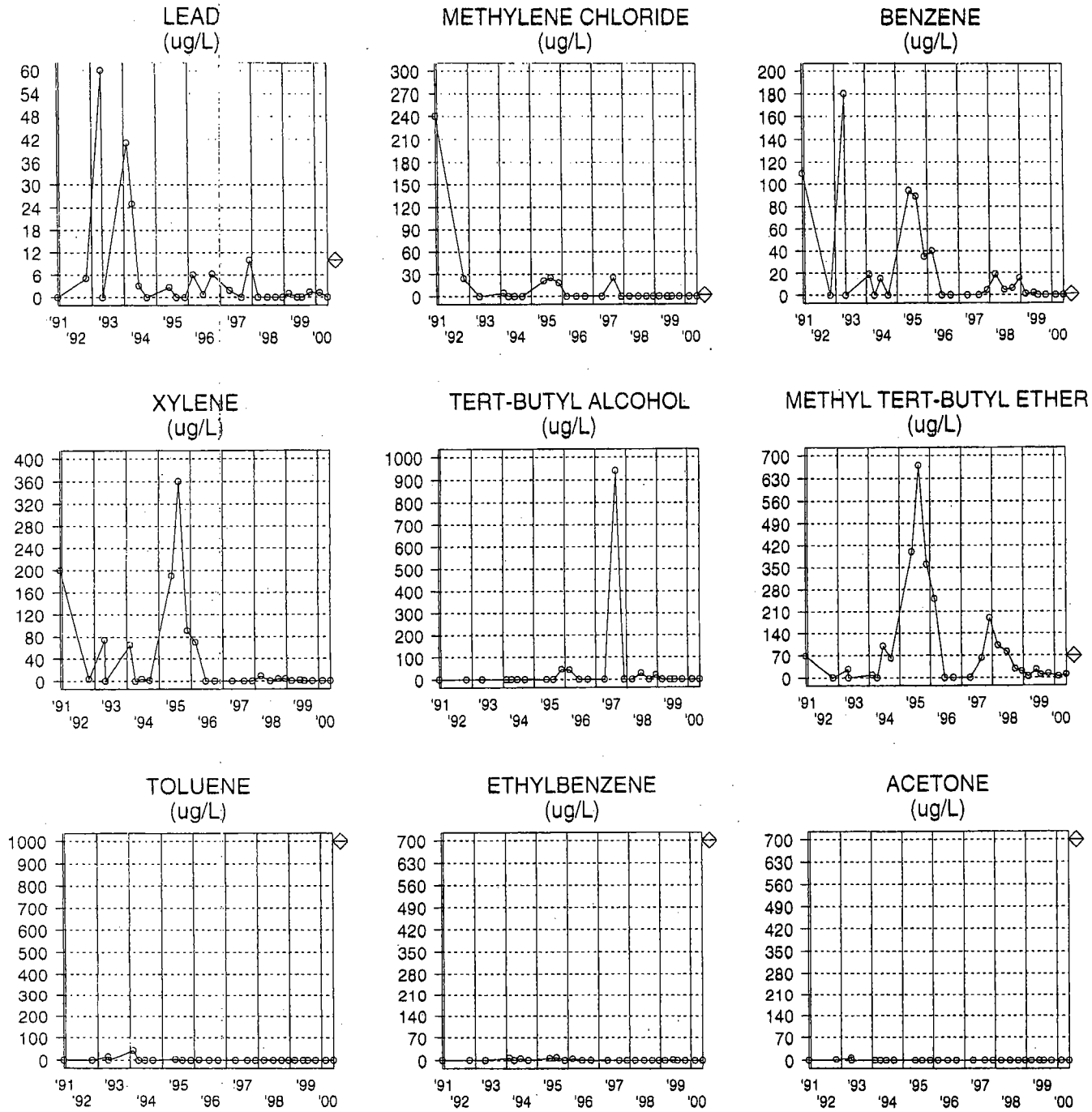
Page 1 of 2.

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 05/15/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

07-05-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	BUTYLBENZYLPHTHALATE	NAPTHALENE	BIS(2-ETHYLHEXYL)-PHTHALAT	Depth to Water	Iron	Manganese	Sodium			NOTES
Units:	-	ug/L	ug/L	ug/L	Feet	ug/L	ug/L	ug/L			-
NJDEP Criteria:	NA	100	NLE	30	-	300	50	50000			-
12/10/1991	ENV PRO	ND	ND	ND	-	-	-	-			-
10/26/1992	ENV PRO	ND	ND	ND	-	-	-	-			-
04/21/1993	ENV PRO	ND	ND	ND	-	-	-	-			-
04/28/1993	21st CEN	12	1.2	2.8	-	-	-	-			BNA Only
02/03/1994	21st CEN	ND	ND	ND	-	-	-	-			-
03/31/1994	21st CEN	ND	ND	ND	-	-	-	-			-
06/14/1994	21st CEN	ND	ND	ND	-	-	-	-			-
09/15/1994	21st CEN	ND	ND	ND	-	-	-	-			-
05/25/1995	EMSL	ND	ND	ND	-	-	-	-			-
08/15/1995	EMSL	ND	21	ND	-	-	-	-			-
11/21/1995	EMSL	ND	6.6	ND	-	-	-	-			-
02/20/1996	EMSL	ND	5.4	ND	-	-	-	-			-
06/13/1996	FMETL	ND	ND	-	-	-	-	-			-
09/27/1996	FMETL	ND	ND	-	-	-	-	-			-
04/11/1997	FMETL	ND	ND	-	3.15	-	-	-			V,Pb
08/28/1997	FMETL	ND	ND	-	4.00	-	-	-			V,Pb
12/02/1997	FMETL	ND	1.92	-	3.10	5340	56.6	26900			V,S,P,M
03/04/1998	FMETL	ND	1.67	-	2.48	13900	144	39600			V,S,P,M
06/19/1998	FMETL	ND	-	-	3.99	-	-	-			V,Pb
09/25/1998	FMETL	ND	-	-	4.56	-	-	-			V,Pb
12/16/1998	FMETL	ND	-	-	4.25	-	-	-			V,Pb
02/24/1999	FMETL	ND	-	-	3.16	-	-	-			V,Pb
05/29/1999	FMETL	ND	-	-	3.55	-	-	-			V,Pb
07/21/1999	FMETL	ND	-	-	4.85	-	-	-			V,Pb
10/21/1999	FMETL	ND	-	-	3.93	-	-	-			V,Pb
02/14/2000	FMETL	ND	-	-	3.42	-	-	-			V,Pb
05/15/2000	FMETL	ND	-	-	3.40	-	-	-			V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 05/15/2000

NOTES:

Page 2 of 2.

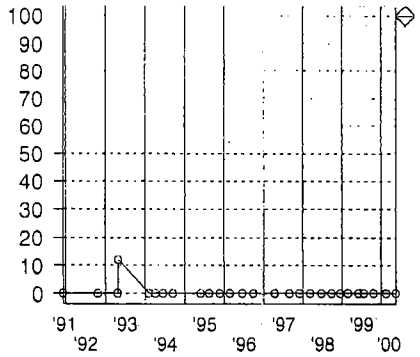
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

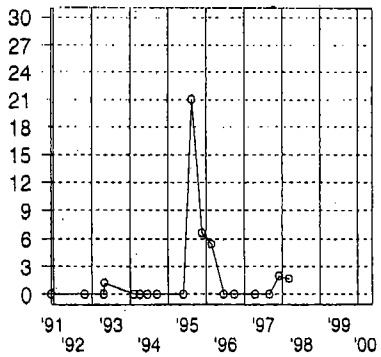
Well 3 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

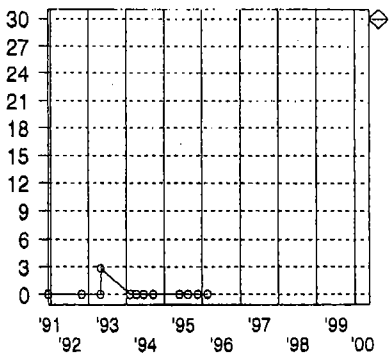
BUTYLBENZYLPHTHALATE
(ug/L)



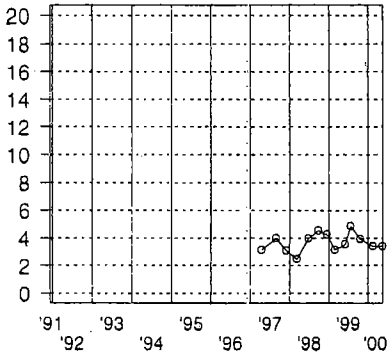
NAPHTHALENE
(ug/L)



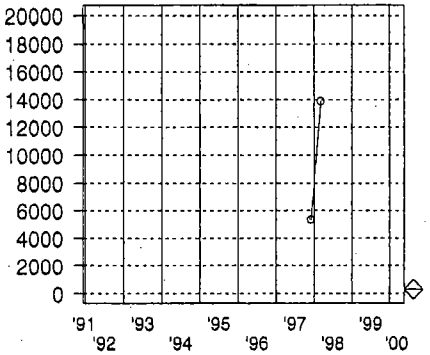
BIS(2-ETHYLHEXYL)PHTHALATE
(ug/L)



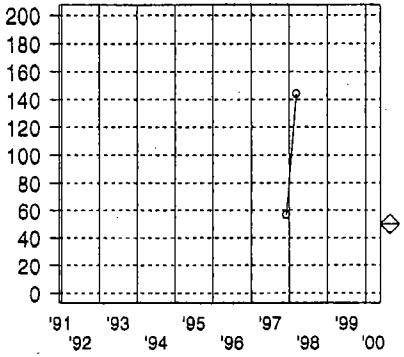
Depth to Water
(Feet)



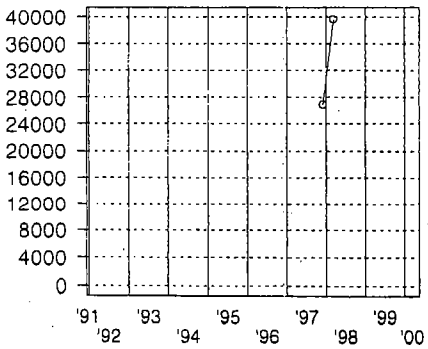
Iron
(ug/L)



Manganese
(ug/L)



Sodium
(ug/L)



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 05/15/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 3 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

07-05-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	BUTYLBENZYLPHTH-ALATE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	1	NLE	70	1000	700	700	100	-
12/10/1991	EMSL	5	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/1992	ENV PRO	ND	27	ND	ND	ND	ND	ND	ND	ND	-
04/21/1993	ENV PRO	ND	ND	ND	ND	ND	ND	ND	2.4	ND	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	10	BNA Only
02/03/1994	21st CEN	ND	5.0	14	60	ND	56	8.9	ND	ND	-
03/31/1994	21st CEN	ND	2.3	ND	ND	1.3	ND	ND	ND	ND	-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
05/25/1995	EMSL	ND	1.0	ND	ND	ND	ND	ND	ND	ND	-
08/15/1995	EMSL	2.6	1.3	ND	ND	ND	ND	ND	ND	ND	-
11/21/1995	EMSL	ND	0.6	ND	ND	ND	ND	ND	ND	ND	-
02/20/1996	EMSL	ND	1.2	ND	ND	ND	ND	ND	ND	ND	-
06/13/1996	FMETL	1.8	ND	ND	ND	-	ND	ND	ND	ND	-
09/27/1996	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	-
04/11/1997	FMETL	2.3	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
12/02/1997	FMETL	9.0	ND	ND	ND	-	ND	ND	ND	ND	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,S,P,M
06/19/1998	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
12/12/1998	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/14/2000	FMETL	1.4	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/15/2000D	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 05/15/2000

NOTES:

Page 1 of 2.

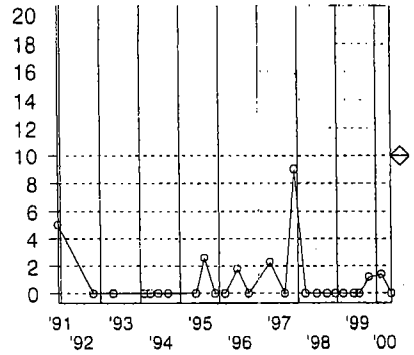
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

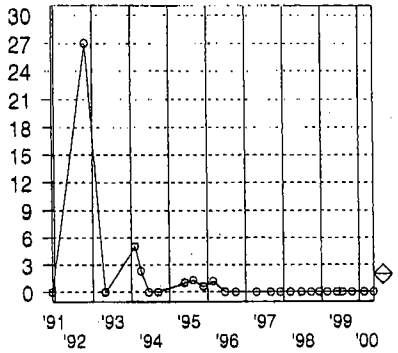
Well 4 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

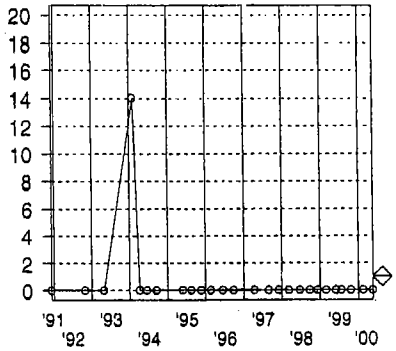
LEAD
(ug/L)



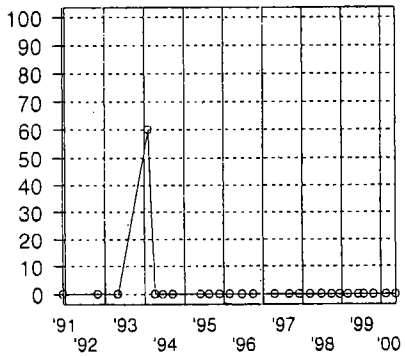
METHYLENE CHLOCRIDE
(ug/L)



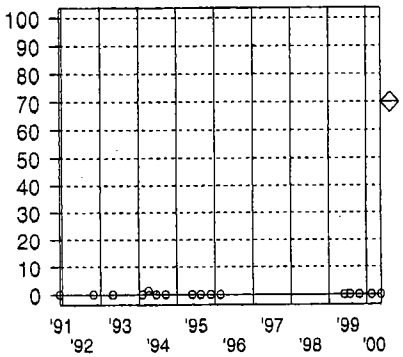
BENZENE
(ug/L)



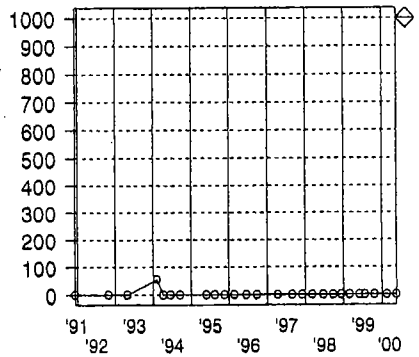
XYLENE
(ug/L)



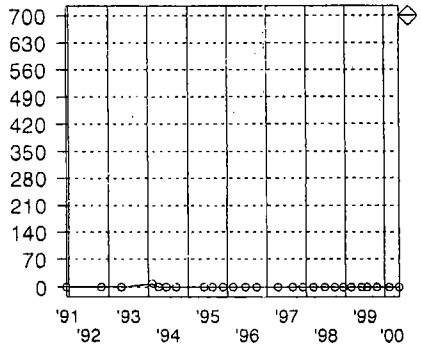
METHYL TERT-BUTYL ETHER
(ug/L)



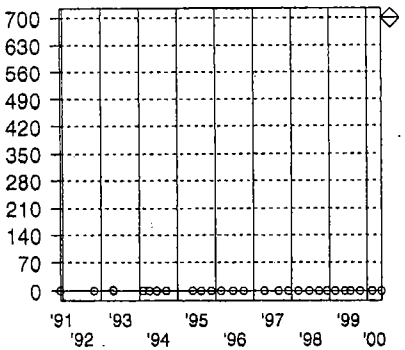
TOLUENE
(ug/L)



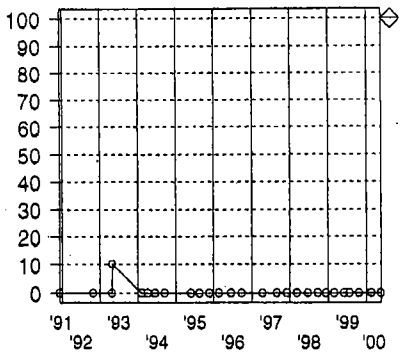
ETHYLBENZENE
(ug/L)



ACETONE
(ug/L)



BUTYLBENZYLPHTHALATE
(ug/L)



SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 05/15/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 4 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

07-05-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	VINYL ACETATE	Depth to Water	Manganese	Sodium						NOTES
Units:	-	ug/L	Feet	ug/L	ug/L						-
NJDEP Criteria:	NA	NLE	-	50	50000						-
12/10/1991	EMSL	ND	-	-	-						-
10/26/1992	ENV PRO	ND	-	-	-						-
04/21/1993	ENV PRO	ND	-	-	-						-
04/28/1993	21st CEN	ND	-	-	-						BNA Only
02/03/1994	21st CEN	1.3	-	-	-						-
03/31/1994	21st CEN	ND	-	-	-						-
06/14/1994	21st CEN	ND	-	-	-						-
09/15/1994	21st CEN	ND	-	-	-						-
05/25/1995	EMSL	ND	-	-	-						-
08/15/1995	EMSL	ND	-	-	-						-
11/21/1995	EMSL	ND	-	-	-						-
02/20/1996	EMSL	ND	-	-	-						-
06/13/1996	FMETL	-	-	-	-						-
09/27/1996	FMETL	-	-	-	-						-
04/11/1997	FMETL	-	2.55	-	-						V,Pb
08/28/1997	FMETL	-	3.20	-	-						V,Pb
12/02/1997	FMETL	-	2.45	90	15600						V,S,P,M
03/04/1998	FMETL	-	2.11	79	12600						V,S,P,M
06/19/1998	FMETL	-	2.33	-	-						V,Pb
09/24/1998	FMETL	-	3.55	-	-						V,Pb
12/12/1998	FMETL	-	3.11	-	-						V,Pb
02/24/1999	FMETL	-	2.44	-	-						V,Pb
05/29/1999	FMETL	-	2.76	-	-						V,Pb
07/21/1999	FMETL	-	3.98	-	-						V,Pb
10/21/1999	FMETL	-	2.37	-	-						V,Pb
02/14/2000	FMETL	-	1.69	-	-						V,Pb
05/15/2000	FMETL	-	2.65	-	-						V,Pb
05/15/2000D	FMETL	-	2.65	-	-						V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 05/15/2000

NOTES:

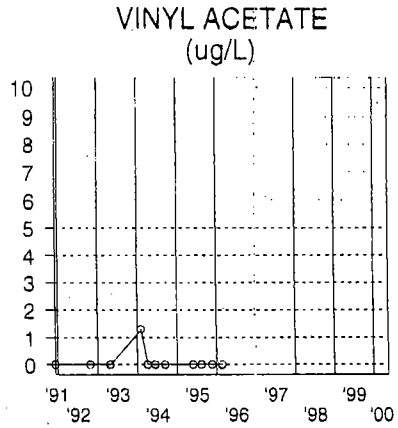
Page 2 of 2.

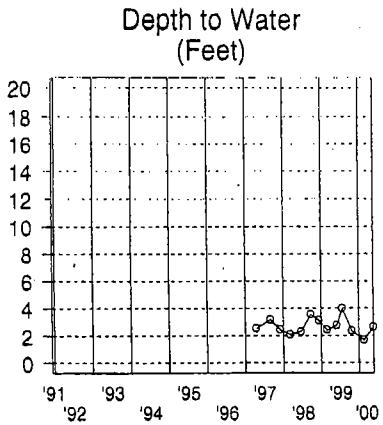
FORT MONMOUTH

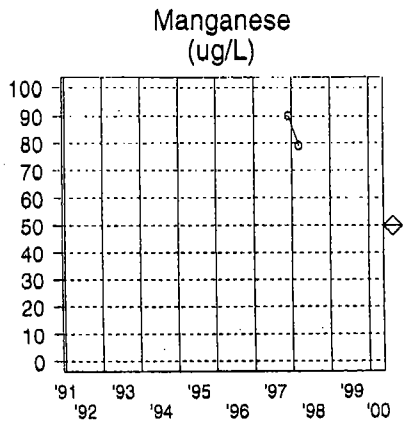
GW MONITORING
Bldg. 2567
Table / Graph A

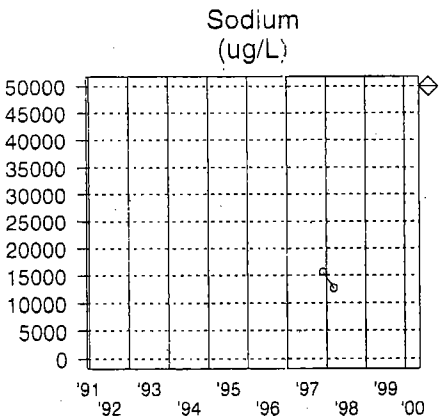
Well 4 of 5

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV









SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 05/15/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Well 4 of 5, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

07-05-2000 x:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5647.04	2567MW01	29-26925	08/22/00
5647.05	2567MW02	29-26926	08/22/00
5647.06	2567MW03	29-26947	08/22/00
5647.07	2567MW04	29-26948	08/22/00
5647.08	2567MW05	29-31783	08/22/00
5647.09	2567MW06	29-42585	08/22/00
5647.10	2567MW07	29-42586	08/22/00

NJDEP Laboratory Certification # 13461

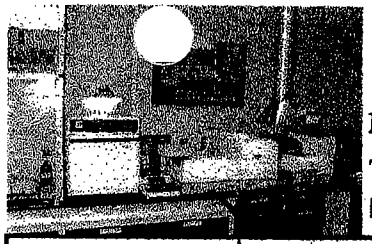
9-18-00

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: X216223
(X)DERA ( )OMA ( )Other:_____

Project No:
Location: 2567 wells 3rd Qrtr '00

Samplers Name / Company: Corey McCormack, IVS

Comments: HCL/HNO_3/4°C

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOTS	Pb						Hno Rcd	Remarks / Preservation Method
5647 .01	Trip	8/22/00	0727	AQ	2	✓							—	
.02	Field Blank		1000		3	✓	✓						—	
.03	Dupe		—		3	✓	✓						—	
.04	2567mw 01		1049		3	✓	✓						0.2	29-26925
.05	2567mw 02		1044			✓	✓						10.0	29-26926
.06	2567mw 03		1039			✓	✓						0.5	29-26947
.07	2567mw04 *		1035			✓	✓						0.0	29-26948
.08	2567 mw05		1256			✓	✓						0.0	29-31783
.09	2567 mw 06		1103			✓	✓						0.0	29-42585
.10	2567 mw07		1058			✓	✓						0.0	29-42586

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	8/22/00 1345	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks: Tide: N/A

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/22/00
WEATHER: Sunny, warm.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.87 ft
DEPTH OF WELL: 13.11 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.24 ft
(9.24) X .65 X 3 =18.01
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 1.20 ppm

PURGE START TIME: 09:30
pH 6.89 su
DISSOLVED O2 5.89 ppm
TEMP 22.8 °C
SPECIFIC CONDUCTIVITY 491 us/cm

PURGE END TIME: 10:48
pH 6.82 su
DISSOLVED O2 3.19 ppm
TEMP 22.0 °C
SPECIFIC CONDUCTIVITY 495 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.39 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 8 gal

SAMPLE START TIME: 10:49
pH 6.81 su
DISSOLVED O2 3.17 ppm
TEMP 21.9 °C
SPECIFIC CONDUCTIVITY 496 us/cm

SAMPLE END TIME: 10:52

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/22/00
WEATHER: Sunny, Warm
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.51 ft
DEPTH OF WELL: 12.28 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.77 ft
(8.77) X .65 X 3 = 17.10
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 10.0 ppm

PURGE START TIME: 09:25
pH 6.60 su
DISSOLVED O2 5.82 ppm
TEMP 23.4 °C
SPECIFIC CONDUCTIVITY 300 us/cm

PURGE END TIME: 10:34
pH 6.53 su
DISSOLVED O2 3.08 ppm
TEMP 22.5 °C
SPECIFIC CONDUCTIVITY 302 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.17 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 10:44
pH 6.53 su
DISSOLVED O2 3.07 ppm
TEMP 22.6 °C
SPECIFIC CONDUCTIVITY 302 us/cm

SAMPLE END TIME: 10:48

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/22/00
WEATHER: Sunny, Warm
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.17 ft
DEPTH OF WELL: 12.57 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.40 ft
(9.40) X .65 X 3 = 18.33
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.5 ppm

PURGE START TIME: 09:20
pH 6.67 su
DISSOLVED O2 5.71 ppm
TEMP 23.1 °C
SPECIFIC CONDUCTIVITY 461 us/cm

PURGE END TIME: 10:38
pH 6.64 su
DISSOLVED O2 3.05 ppm
TEMP 22.3 °C
SPECIFIC CONDUCTIVITY 466 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.68 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:39
pH 6.64 su
DISSOLVED O2 3.04 ppm
TEMP 22.4 °C
SPECIFIC CONDUCTIVITY 466 us/cm

SAMPLE END TIME: 10:43

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/22/00
WEATHER: Sunny, Warm
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.49 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.17 ft
(9.17) X .65 X 3 =17.88
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:16
pH 6.27 su
DISSOLVED O2 5.57 ppm
TEMP 23.0 °C
SPECIFIC CONDUCTIVITY 291 us/cm

PURGE END TIME: 10:34
pH 6.21 su
DISSOLVED O2 3.12 ppm
TEMP 12.1 °C
SPECIFIC CONDUCTIVITY 296 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.04 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:35
pH 6.20 su
DISSOLVED O2 3.11 ppm
TEMP 22.2 °C
SPECIFIC CONDUCTIVITY 296 us/cm

SAMPLE END TIME: 10:38

COMMENTS: Dupe here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/22/00
WEATHER: Sunny, Warm
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.73 ft
DEPTH OF WELL: 15.06 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.33 ft
(8.33) X .65 X 3 =16.24
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.00 ppm

PURGE START TIME: 11:46
pH 6.21 su
DISSOLVED O2 5.94 ppm
TEMP 20.7 °C
SPECIFIC CONDUCTIVITY 190 us/cm

PURGE END TIME: 12:55
pH 6.12 su
DISSOLVED O2 3.27 ppm
TEMP 19.2 °C
SPECIFIC CONDUCTIVITY 196 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.91 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 12:56
pH 6.13 su
DISSOLVED O2 3.24 ppm
TEMP 19.2 °C
SPECIFIC CONDUCTIVITY 196 us/cm

SAMPLE END TIME: 13:00

COMMENTS: Cloudy.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/22/00
WEATHER: Sunny, Warm
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.06 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.68 ft
(8.68) X .65 X 3 =16.92
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.00 ppm

PURGE START TIME: 09:37
pH 5.62 su
DISSOLVED O2 5.97 ppm
TEMP 20.0 °C
SPECIFIC CONDUCTIVITY 190 us/cm

PURGE END TIME: 10:51
pH 5.54 su
DISSOLVED O2 3.28 ppm
TEMP 19.1 °C
SPECIFIC CONDUCTIVITY 192 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.95 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 11:03
pH 5.53 su
DISSOLVED O2 3.27 ppm
TEMP 19.2 °C
SPECIFIC CONDUCTIVITY 192 us/cm

SAMPLE END TIME: 11:07

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/22/00
WEATHER: Sunny, Warm
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.65 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.85 ft
(9.85) X .65 X 3 =19.20
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.00 ppm

PURGE START TIME: 09:35
pH 6.49 su
DISSOLVED O2 5.99 ppm
TEMP 21.1 °C
SPECIFIC CONDUCTIVITY 301 us/cm

PURGE END TIME: 10:57
pH 6.40 su
DISSOLVED O2 3.33 ppm
TEMP 20.2 °C
SPECIFIC CONDUCTIVITY 307 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.73 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 10:58
pH 6.40 su
DISSOLVED O2 3.31 ppm
TEMP 20.3 °C
SPECIFIC CONDUCTIVITY 307 us/cm

SAMPLE END TIME: 11:02

COMMENTS:

VOLATILES

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	: Method Detection Limit
J	: Compound Identified Below Detection Limit
B	: Compound is in Both Sample and Blank
D	: Results are from a Dilution of the Sample
U	: Compound Searched for but not Detected
E	: Compound Exceeds Calibration Limit

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC003603.D	Sample Name	Vblk102
Operator	Skelton	Field ID	Vblk102
Date Aquired	31-Aug-00	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Vblk102**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5647 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Vblk102

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC003603.D

Level: (low/med) LOW Date Received: 8/22/00

% Moisture: not dec. Date Analyzed: 8/31/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC003613.D	Sample Name	5647.01
Operator	Skelton	Field ID	Trip Blank
Date Aquired	31-Aug-00	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform	16.26	438655	2.53 ug/L	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5647 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5647.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC003613.D

Level: (low/med) LOW Date Received: 8/22/00

% Moisture: not dec. _____ Date Analyzed: 8/31/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC003614.D	Sample Name	5647.02
Operator	Skelton	Field ID	Field Blank
Date Aquired	31-Aug-00	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	8.92	357354	11.36 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform	16.26	472427	2.87 ug/L	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5647 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5647.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC003614.D

Level: (low/med) LOW Date Received: 8/22/00

% Moisture: not dec. Date Analyzed: 8/31/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC003615.D	Sample Name	5647.03
Operator	Skelton	Field ID	Dupe
Date Aquired	1-Sep-00	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5647 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5647.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC003615.D

Level: (low/med) LOW Date Received: 8/22/00

% Moisture: not dec. Date Analyzed: 9/1/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC003616.D	Sample Name	5647.04
Operator	Skelton	Field ID	2567MW01
Date Aquired	1-Sep-00	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	9.79	1445253	218.42 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.94	271294	1.20 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5647 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5647.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC003616.D

Level: (low/med) LOW Date Received: 8/22/00

% Moisture: not dec. Date Analyzed: 9/1/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC003617.D	Sample Name	5647.05
Operator	Skelton	Field ID	2567MW02
Date Aquired	1-Sep-00	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	8.92	190497	5.99 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5647 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5647.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC003617.D

Level: (low/med) LOW Date Received: 8/22/00

% Moisture: not dec. Date Analyzed: 9/1/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC003618.D	Sample Name	5647.06
Operator	Skelton	Field ID	2567MW03
Date Aquired	1-Sep-00	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.90	1222902	5.36 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5647 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5647.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC003618.D

Level: (low/med) LOW Date Received: 8/22/00

% Moisture: not dec. Date Analyzed: 9/1/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 2

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	15.25	14	J
2. 000496-11-7	Indane	33.76	8	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC003619.D	Sample Name	5647.07
Operator	Skelton	Field ID	2567MW04
Date Aquired	1-Sep-00	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	8.93	111108	3.57 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5647 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5647.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC003619.D

Level: (low/med) LOW Date Received: 8/22/00

% Moisture: not dec. Date Analyzed: 9/1/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC003620.D	Sample Name	5647.08
Operator	Skelton	Field ID	2567MW05
Date Aquired	1-Sep-00	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

9/13/00 4:12 PM

D:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW05**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5647 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5647.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC003620.D

Level: (low/med) LOW Date Received: 8/22/00

% Moisture: not dec. Date Analyzed: 9/1/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC003621.D	Sample Name	5647.09
Operator	Skelton	Field ID	2567MW06
Date Aquired	1-Sep-00	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	8.94	128425	4.02 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW06**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5647 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5647.09

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC003621.D

Level: (low/med) LOW Date Received: 8/22/00

% Moisture: not dec. Date Analyzed: 9/1/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC003622.D	Sample Name	5647.10
Operator	Skelton	Field ID	2567MW07
Date Aquired	1-Sep-00	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW07**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 5647 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5647.10

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC003622.D

Level: (low/med) LOW Date Received: 8/22/00

% Moisture: not dec. Date Analyzed: 9/1/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 08/31/00
Analysis Completed: 08/31/00

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5647.02-.10
Sample Received: 08/22/00
Analysis Start: 08/31/00
Analysis Completed: 08/31/00

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
5647.02	Field Blank	ND	10	0.8
5647.03	Dupe	ND	10	0.8
5647.04	2567MW01	ND	10	0.8
5647.05	2567MW02	ND	10	0.8
5647.06	2567MW03	ND	10	0.8
5647.07	2567MW04	ND	10	0.8
5647.08	2567MW05	1.6	10	0.8
5647.09	2567MW06	ND	10	0.8
5647.10	2567MW07	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	METHY-LENE CHLORIDE	1,2-DI-CHLORO-ETHANE	BENZENE	TERT-BUTYL ALCOHOL	MTBE	BROMODI-CHLORO-METHANE	1,2-DI-CHLORO-PROPANE	CIS-1,3-DI-CHLORO-PROPENE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	2	1	NLE	70	1	1	NLE	-
12/10/1991	ENV PRO	4	240	55	2400	4400	2200	ND	ND	ND	-
10/26/1992	ENV PRO	ND	420	ND	2800	5400	1200	77	62	48	-
10/26/1992D	ENV PRO	ND	130	ND	3200	7000	1500	ND	ND	ND	-
04/21/1993	21st CEN	70	16	ND	520	470	890	ND	ND	ND	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/1994	21st CEN	ND	26	ND	21	28	650	ND	ND	ND	-
03/31/1994	21st CEN	ND	ND	ND	ND	22	10	ND	ND	ND	-
06/14/1994	21st CEN	ND	ND	ND	ND	120	88	ND	ND	ND	-
09/15/1994	21st CEN	ND	ND	ND	ND	600	56	ND	ND	ND	-
05/25/1995	EMSL	ND	1.5	ND	ND	930	110	ND	ND	ND	-
08/15/1995	EMSL	3.3	1.3	ND	ND	930	29	ND	ND	ND	-
11/21/1995	EMSL	ND	36	ND	ND	860	80	ND	ND	ND	-
02/20/1996	EMSL	4	2.1	ND	ND	780	100	ND	ND	ND	-
06/13/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	2.5	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	1.4	ND	ND	39.4	ND	240	ND	ND	ND	V,Pb
12/02/1997	FMETL	7.0	ND	ND	ND	357	20.3	ND	ND	ND	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	560	37	ND	ND	ND	V,S,P,M
06/01/1998	FMETL	0.5	ND	ND	ND	95.63	24.23	ND	ND	ND	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	283	10.02	ND	ND	ND	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	143.26	3.43	ND	ND	ND	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	675	26.15	ND	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	605.1	9.16	ND	ND	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	155.56	3.33	ND	ND	ND	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	497.3	4.8	ND	ND	ND	V,Pb
02/14/2000	FMETL	1.31	ND	ND	ND	992	8.2	ND	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	458.88	5.24	ND	ND	ND	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	218.42	1.20	ND	ND	ND	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/22/2000

NOTES:

Page 1 of 4.

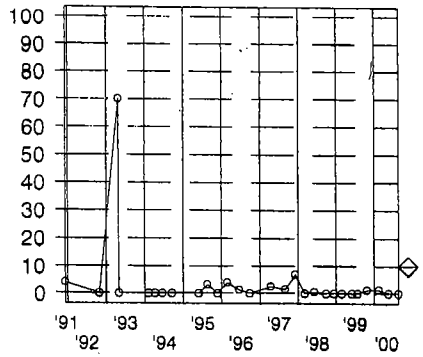
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

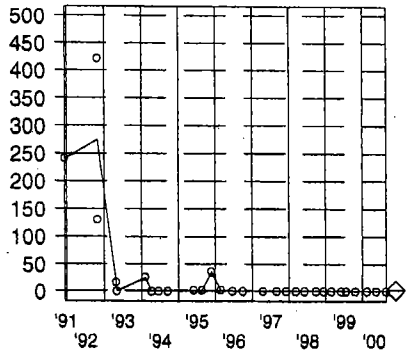
Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

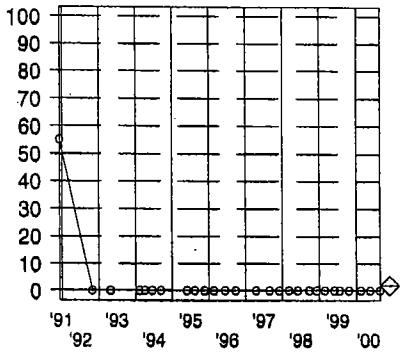
LEAD
(ug/L)



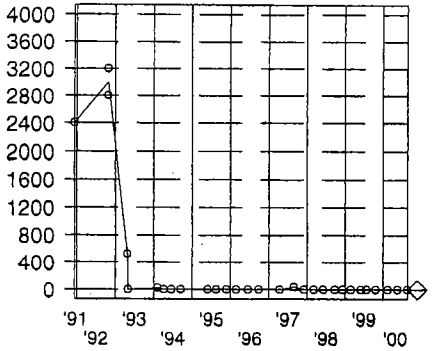
METHYLENE CHLORIDE
(ug/L)



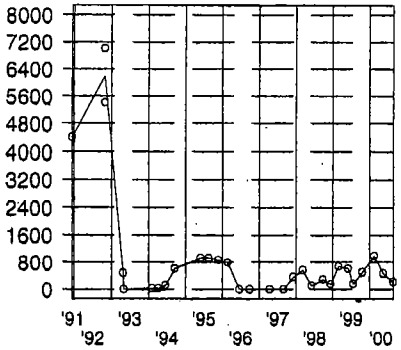
1,2-DICHLOROETHANE
(ug/L)



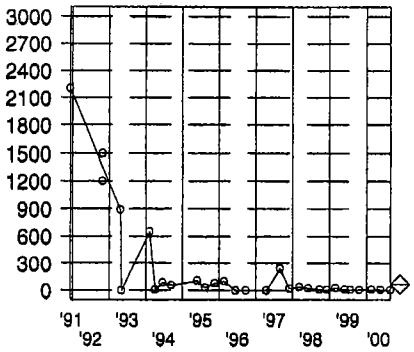
BENZENE
(ug/L)



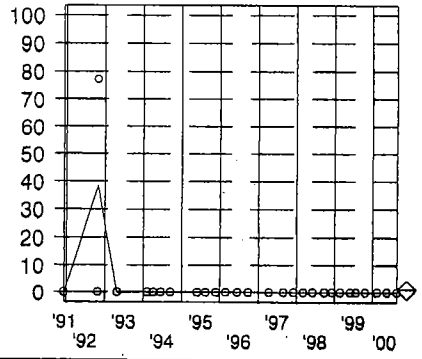
TERT-BUTYL ALCOHOL
(ug/L)



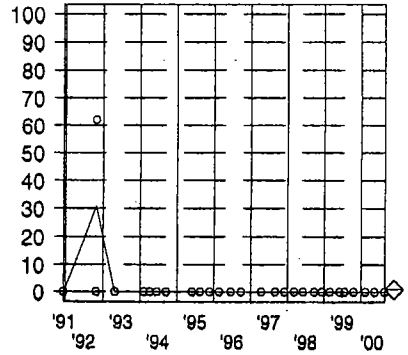
METHYL TERT-BUTYL ETHER
(ug/L)



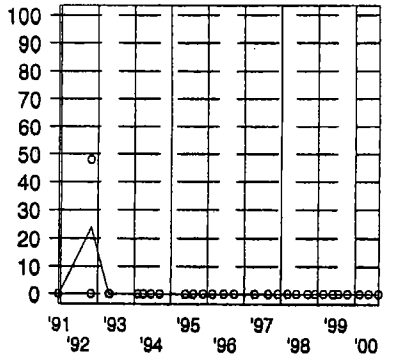
BROMODICHLOROMETHANE
(ug/L)



1,2-DICHLOROPROPANE
(ug/L)



CIS-1,3-DICHLOROPROPENE
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/22/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	TRI-CHLORO-ETHENE	DIBROMO-CHLORO-METHANE	1,1,2-TRI-CHLORO-ETHANE	TRANS-1,3 DICHLORO PROPENE	BROMO-FORM	TETRA-CHLORO-ETHENE	1,1,2,2-TET-RACHLORO ETHANE	TOLUENE	CHLORO-BENZENE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	1	10	3	NLE	4	1	2	1000	4	-
12/10/1991	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/1992	ENV PRO	32	130	140	220	140	51	170	73	99	-
10/26/1992D	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/21/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	66	ND	-
03/31/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
05/25/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	0.7	ND	-
08/15/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
11/21/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
02/20/1996	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	1.3	ND	V,Pb
12/02/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
10/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/14/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/22/2000

NOTES:

Page 2 of 4.

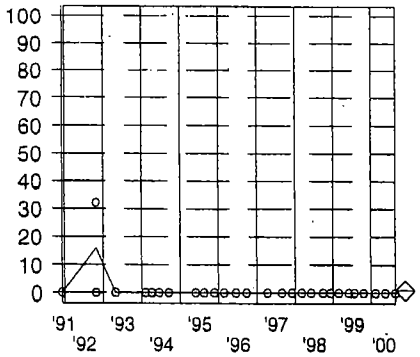
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

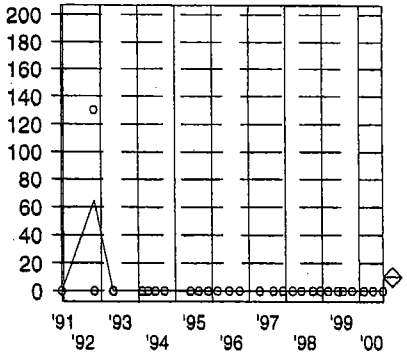
Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

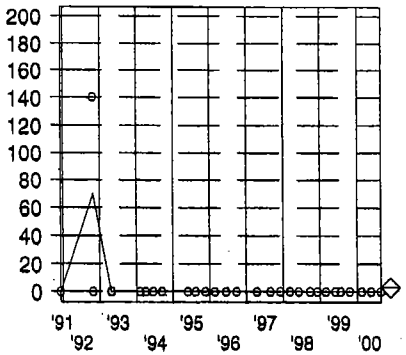
TRICHLOROETHENE
(ug/L)



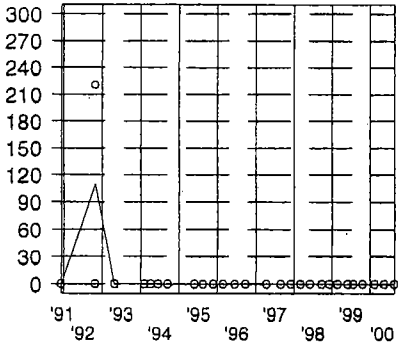
DIBROMOCHLOROMETHANE
(ug/L)



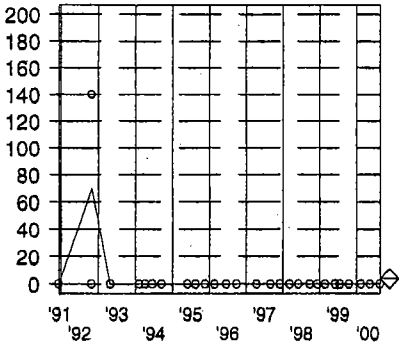
1,1,2-TRICHLOROETHANE
(ug/L)



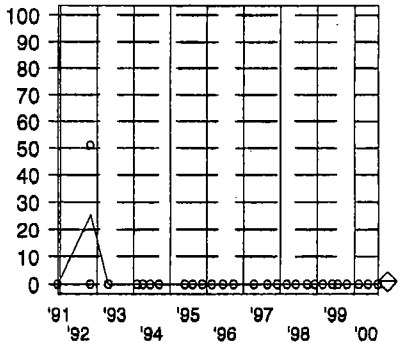
TRANS-1,3-DICHLOROPROPENE
(ug/L)



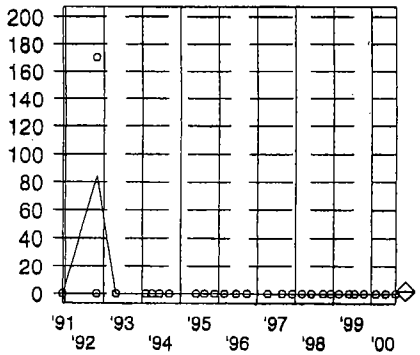
BROMOFORM
(ug/L)



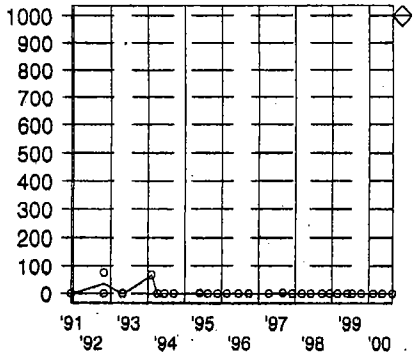
TETRACHLOROETHENE
(ug/L)



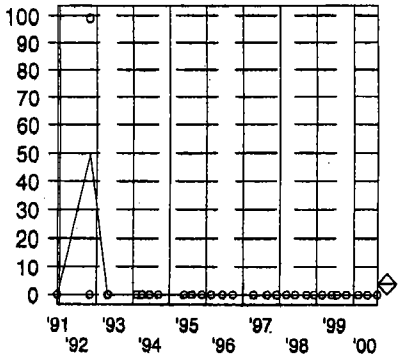
1,1,2,2-TETRACHLOROETHANE
(ug/L)



TOLUENE
(ug/L)



CHLOROBENZENE
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/22/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	ETHYL-BENZENE	STYRENE	1,3-DI-CHLORO-BENZENE	1,2-DI-CHLORO-BENZENE	1,4-DI-CHLORO-BENZENE	ACETONE	BUTYLBENZYLPHTH-ALATE	Iron	Manganese	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	700	100	600	600	75	700	100	300	50	-
12/10/1991	ENV PRO	ND	ND	ND	ND	ND	ND	ND	-	-	-
10/26/1992	ENV PRO	90	84	100	120	120	ND	ND	-	-	-
10/26/1992D	ENV PRO	ND	ND	ND	ND	ND	ND	ND	-	-	-
04/21/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	-	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	12	-	-	BNA Only
02/03/1994	21st CEN	16	ND	ND	ND	ND	54	ND	-	-	-
03/31/1994	21st CEN	ND	ND	ND	ND	ND	6.9	ND	-	-	-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	-	-	-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	-	-	-
05/25/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	-	-	-
08/15/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	-	-	-
11/21/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	-	-	-
02/20/1996	EMSL	ND	ND	ND	ND	ND	ND	ND	-	-	-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	-
04/11/1997	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
12/02/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	4110	93	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	5800	108	V,S,P,M
06/01/1998	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
10/21/1999	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
02/14/2000	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	-	-	-	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/22/2000

NOTES:

Page 3 of 4.

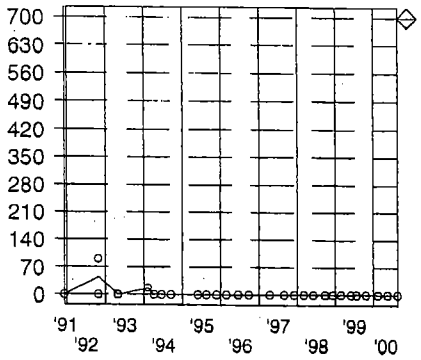
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

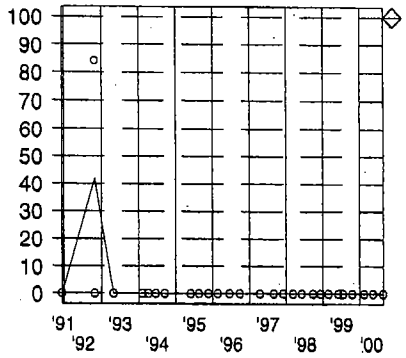
Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

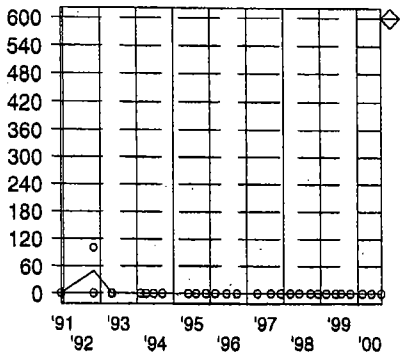
ETHYLBENZENE
(ug/L)



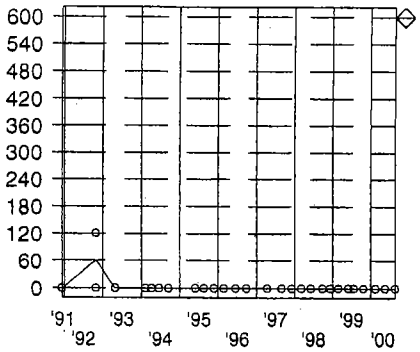
STYRENE
(ug/L)



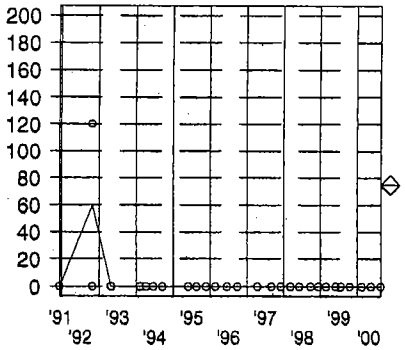
1,3-DICHLOROBENZENE
(ug/L)



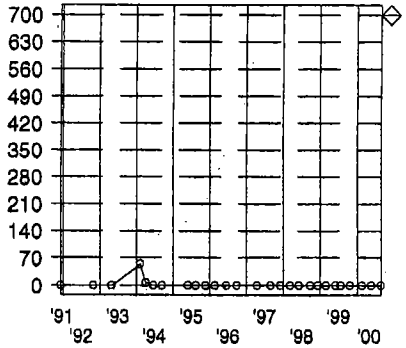
1,2-DICHLOROBENZENE
(ug/L)



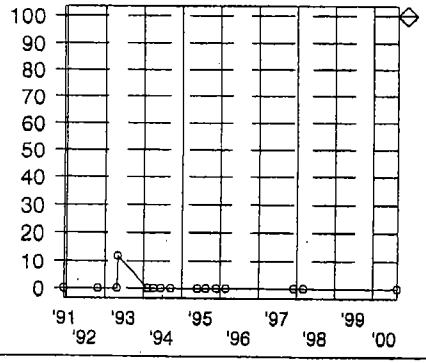
1,4 DICHLOROBENZENE
(ug/L)



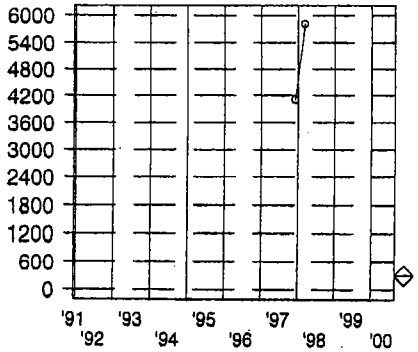
ACETONE
(ug/L)



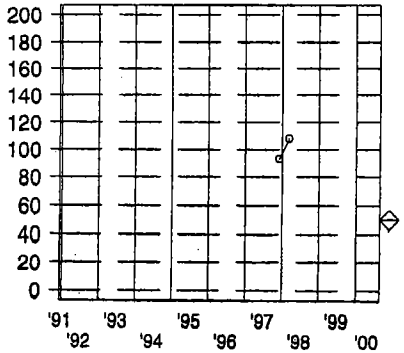
BUTYLBENZYLPHTHALATE
(ug/L)



Iron
(ug/L)



Manganese
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/22/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Sodium	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	NA	50000	-								-
12/10/1991	ENV PRO	-	-								-
10/26/1992	ENV PRO	-	-								-
10/26/1992D	ENV PRO	-	-								-
04/21/1993	21st CEN	-	-								-
04/28/1993	21st CEN	-	-								BNA Only
02/03/1994	21st CEN	-	-								-
03/31/1994	21st CEN	-	-								-
06/14/1994	21st CEN	-	-								-
09/15/1994	21st CEN	-	-								-
05/25/1995	EMSL	-	-								-
08/15/1995	EMSL	-	-								-
11/21/1995	EMSL	-	-								-
02/20/1996	EMSL	-	-								-
06/13/1996	FMETL	-	-								-
09/27/1996	FMETL	-	-								-
04/11/1997	FMETL	-	3.80								V,Pb
08/28/1997	FMETL	-	4.80								V,Pb
12/02/1997	FMETL	76000	3.90								V,S,P,M
03/04/1998	FMETL	48900	3.51								V,S,P,M
06/01/1998	FMETL	-	4.06								V,Pb
09/24/1998	FMETL	-	5.21								V,Pb
12/09/1998	FMETL	-	4.90								V,Pb
02/24/1999	FMETL	-	3.75								V,Pb
05/29/1999	FMETL	-	4.20								V,Pb
07/21/1999	FMETL	-	5.48								V,Pb
10/21/1999	FMETL	-	4.03								V,Pb
02/14/2000	FMETL	-	3.31								V,Pb
05/15/2000	FMETL	-	4.04								V,Pb
08/22/2000	FMETL	-	3.87								V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/22/2000

NOTES:

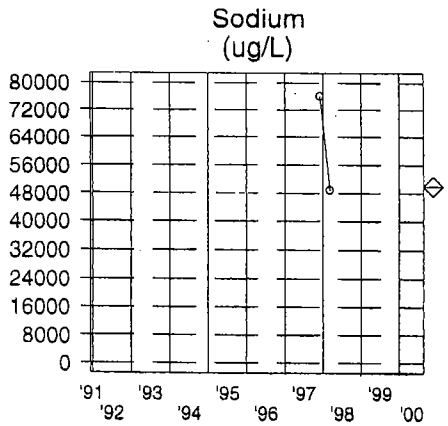
Page 4 of 4.

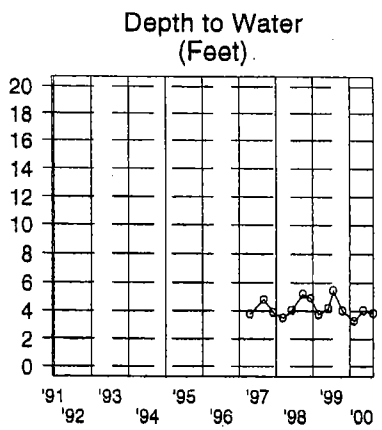
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/22/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	BUTYLBENZYLPHTH-ALATE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	1	NLE	70	1000	700	700	100	-
12/10/1991	ENV PRO	ND	7	3	ND	ND	ND	ND	ND	ND	-
10/26/1992	ENV PRO	11	23	ND	3	ND	ND	ND	ND	ND	-
04/21/1993	ENV PRO	ND	ND	ND	2.0	ND	ND	ND	2.5	ND	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	18	BNA Only
02/03/1994	21st CEN	260	4.0	19	43	7.0	55	7.4	ND	ND	-
03/31/1994	21st CEN	ND	17	ND	2.5	11	ND	ND	140	ND	-
06/14/1994	21st CEN	ND	ND	ND	3.0	11	ND	1.1	ND	ND	-
09/15/1994	21st CEN	ND	ND	ND	5.5	4.1	1.8	1.2	ND	ND	-
05/25/1995	EMSL	ND	0.9	ND	6.5	3.1	ND	0.8	ND	ND	-
08/15/1995	EMSL	5.6	1.3	ND	5.3	2.5	ND	ND	ND	ND	-
11/21/1995	EMSL	ND	0.6	ND	3.6	1.6	ND	ND	ND	ND	-
02/20/1996	EMSL	ND	2.0	ND	4.2	2	ND	ND	ND	ND	-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	10.7	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/02/1997	FMETL	20	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/1998	FMETL	8.0	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/1998	FMETL	1.4	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/14/2000	FMETL	1.49	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	5.99	-	V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 08/22/2000

NOTES:

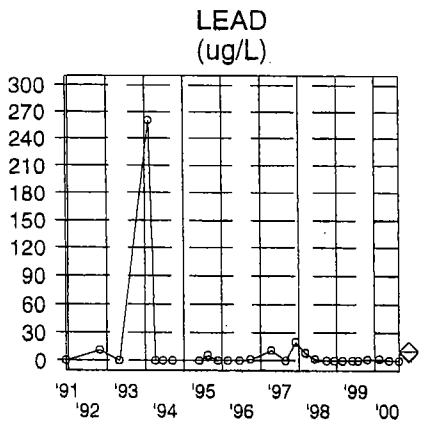
Page 1 of 2.

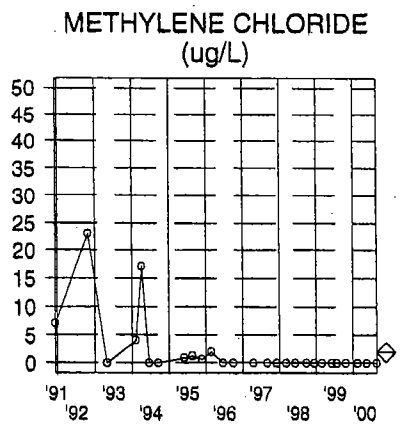
FORT MONMOUTH

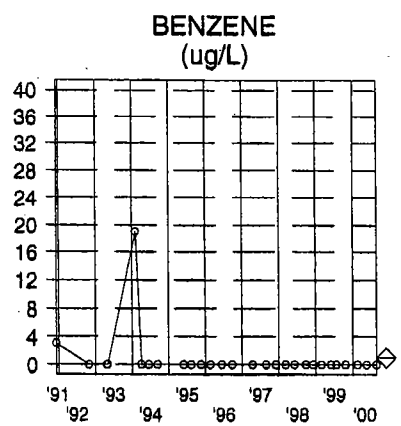
GW MONITORING
Bldg. 2567
Table / Graph A

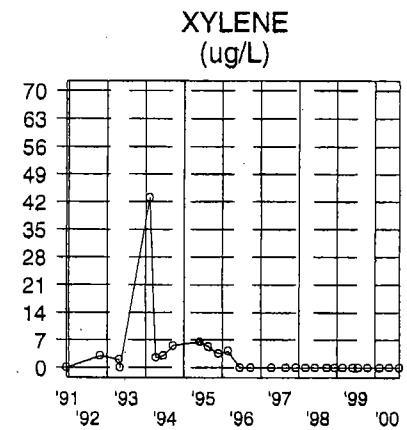
Source 2 of 7

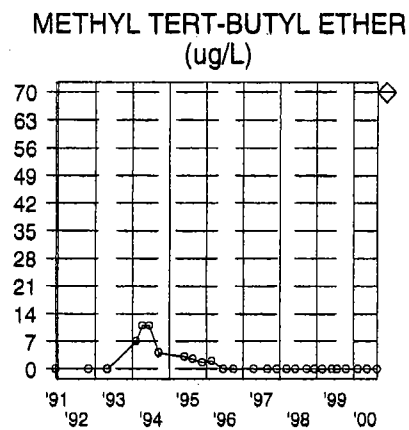
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

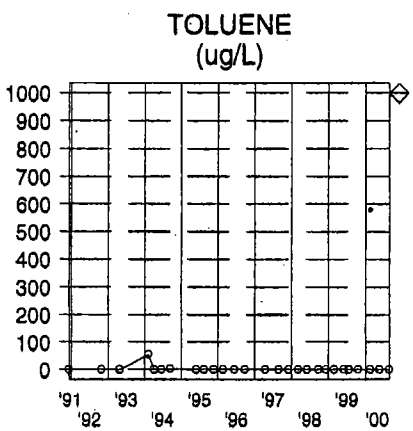


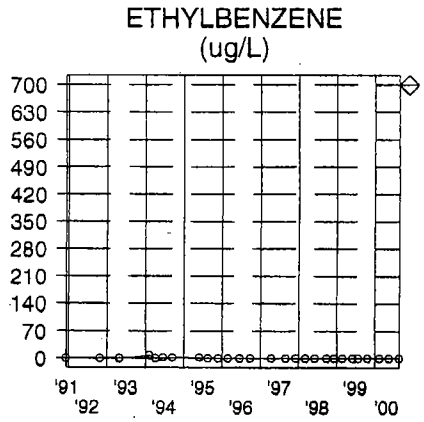


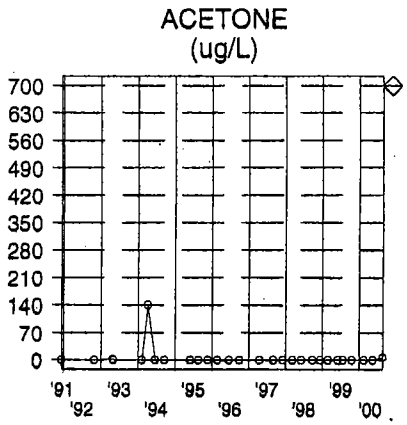


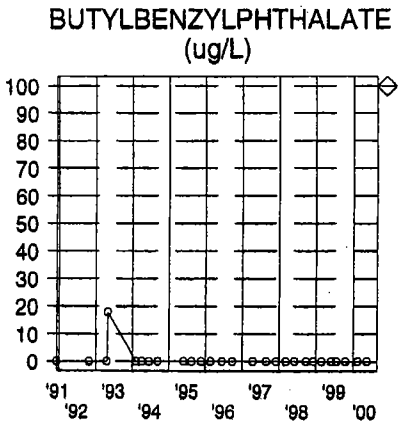












SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 08/22/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	NAPTH-ALENE	CARBON DISULFIDE	ISOPRO-PYL-BENZENE	N-PRO-PYL-BENZENE	Iron	Manganese	Sodium	Depth to Water		NOTES
Units:	-	ug/L	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	Feet		-
NJDEP Criteria:	NA	NLE	NLE	NLE	NLE	300	50	50000	-		-
12/10/1991	ENV PRO	ND	ND	ND	ND	-	-	-	-		-
10/26/1992	ENV PRO	ND	ND	ND	ND	-	-	-	-		-
04/21/1993	ENV PRO	ND	ND	ND	ND	-	-	-	-		-
04/28/1993	21st CEN	ND	ND	ND	ND	-	-	-	-		BNA Only
02/03/1994	21st CEN	ND	3.1	ND	ND	-	-	-	-		-
03/31/1994	21st CEN	ND	ND	ND	ND	-	-	-	-		-
06/14/1994	21st CEN	ND	ND	ND	ND	-	-	-	-		-
09/15/1994	21st CEN	ND	ND	ND	ND	-	-	-	-		-
05/25/1995	EMSL	11	ND	1.1	1.3	-	-	-	-		-
08/15/1995	EMSL	11	ND	1.1	1.3	-	-	-	-		-
11/21/1995	EMSL	7.3	ND	1.0	1.1	-	-	-	-		-
02/20/1996	EMSL	7.2	ND	1	1.1	-	-	-	-		-
06/13/1996	FMETL	ND	-	-	-	-	-	-	-		-
09/27/1996	FMETL	ND	-	-	-	-	-	-	-		-
04/11/1997	FMETL	ND	-	-	-	-	-	-	3.40		V,Pb
08/28/1997	FMETL	ND	-	-	-	-	-	-	4.30		V,Pb
12/02/1997	FMETL	4.79	ND	ND	ND	16300	272	58700	3.45		V,S,P,M
03/04/1998	FMETL	1.67	ND	ND	ND	12400	100	26600	2.92		V,S,P,M
06/01/1998	FMETL	-	-	-	-	-	-	-	3.59		V,Pb
09/24/1998	FMETL	-	-	-	-	-	-	-	4.73		V,Pb
12/09/1998	FMETL	-	-	-	-	-	-	-	3.42		V,Pb
02/24/1999	FMETL	-	-	-	-	-	-	-	3.38		V,Pb
05/29/1999	FMETL	-	-	-	-	-	-	-	3.83		V,Pb
07/21/1999	FMETL	-	-	-	-	-	-	-	5.03		V,Pb
10/21/1999	FMETL	-	-	-	-	-	-	-	3.65		V,Pb
02/14/2000	FMETL	-	-	-	-	-	-	-	3.00		V,Pb
05/15/2000	FMETL	-	-	-	-	-	-	-	3.77		V,Pb
08/22/2000	FMETL	-	-	-	-	-	-	-	3.51		V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 08/22/2000

NOTES:

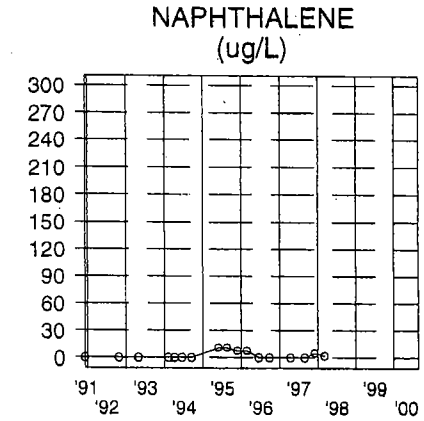
Page 2 of 2.

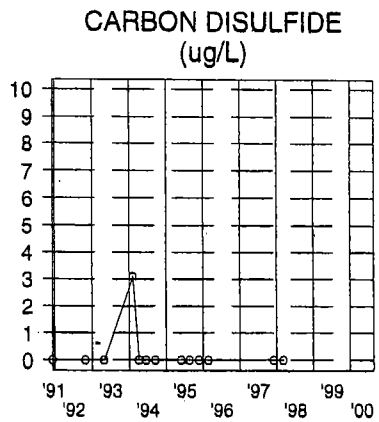
FORT MONMOUTH

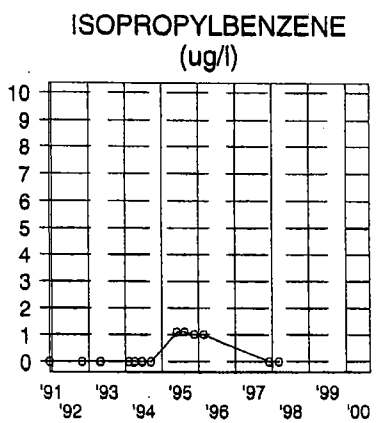
GW MONITORING
Bldg. 2567
Table / Graph A

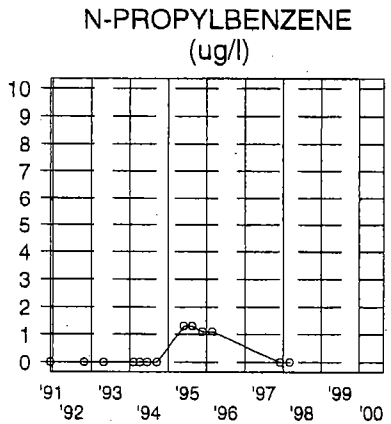
Source 2 of 7

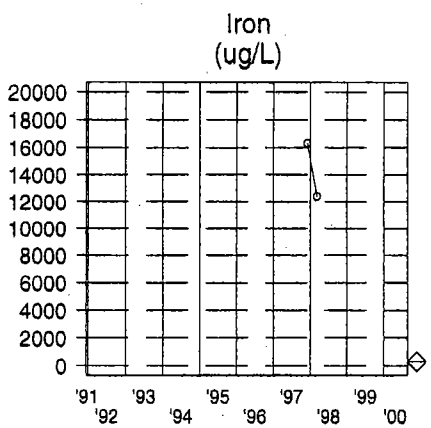
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

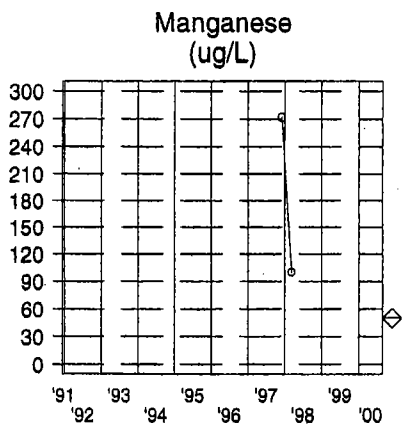


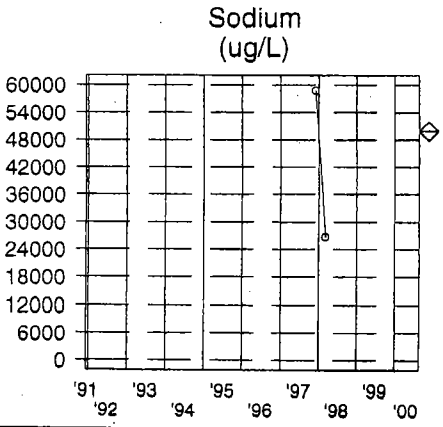


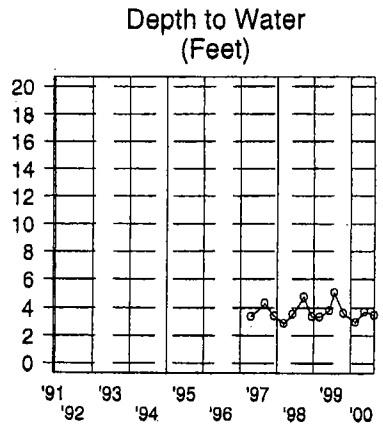












SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 08/22/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	1	NLE	NLE	70	1000	700	700	-
12/10/1991	ENV PRO	ND	240	110	200	ND	69	ND	ND	ND	-
10/26/1992	ENV PRO	5	24	ND	3	ND	ND	ND	ND	1	-
04/21/1993	ENV PRO	60	ND	180	74.2	ND	27	15	ND	7.7	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/1994	21st CEN	41	4.4	19	65	ND	9.1	43	7.0	ND	-
03/31/1994	21st CEN	25	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/1994	21st CEN	3	ND	15	3.4	ND	100	ND	5.4	ND	-
09/15/1994	21st CEN	ND	ND	ND	1.4	ND	61	ND	ND	ND	-
05/25/1995	EMSL	2.7	21	94	190	ND	400	3.8	6.3	ND	-
08/15/1995	EMSL	ND	25	89	360	ND	670	ND	8.4	ND	-
11/21/1995	EMSL	ND	18	35	91	46	360	ND	ND	ND	-
02/20/1996	EMSL	6	ND	40	70	43	250	1	4.5	ND	-
06/13/1996	FMETL	0.7	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	6.2	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	1.8	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	ND	25	ND	ND	940	62	ND	ND	ND	V,Pb
12/02/1997	FMETL	10	ND	4.31	ND	ND	188	ND	ND	ND	V,S,P,M
03/04/1998	FMETL	ND	ND	19	8.6	ND	102	ND	ND	ND	V,S,P,M
06/19/1998	FMETL	ND	ND	4.68	ND	27.52	81.82	ND	ND	ND	V,Pb
09/25/1998	FMETL	ND	ND	5.96	3.62	ND	27.27	ND	ND	ND	V,Pb
12/16/1998	FMETL	ND	ND	15.45	3.67	19.38	20.54	ND	ND	ND	V,Pb
02/24/1999	FMETL	1.0	ND	1.03	ND	ND	3.3	ND	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	1.70	1.29	ND	26.34	ND	1.04	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	8.98	ND	ND	ND	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	ND	13.08	ND	ND	ND	V,Pb
02/14/2000	FMETL	1.22	ND	ND	ND	ND	3.78	ND	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	9.35	ND	ND	ND	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	5.36	ND	ND	ND	V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 08/22/2000

NOTES:

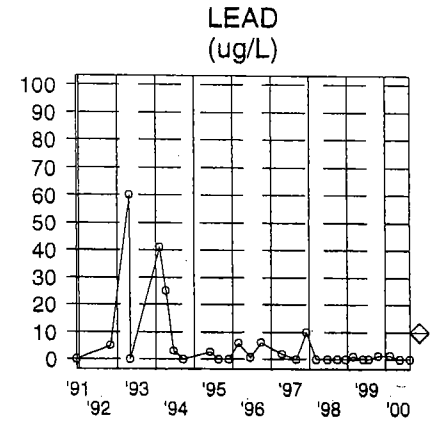
Page 1 of 2.

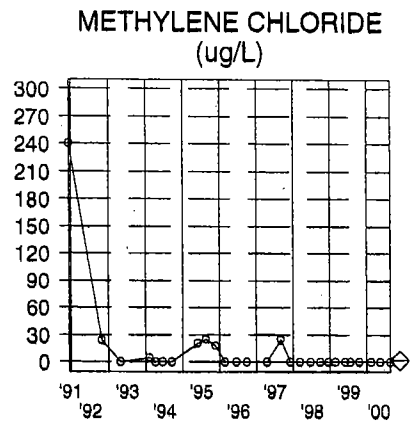
FORT MONMOUTH

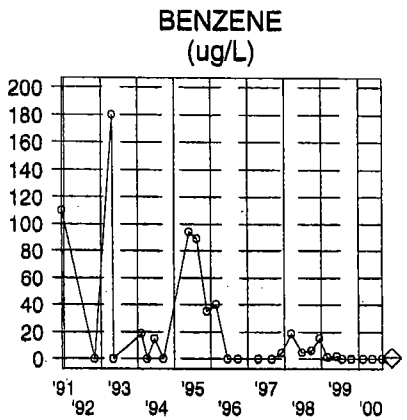
GW MONITORING
Bldg. 2567
Table / Graph A

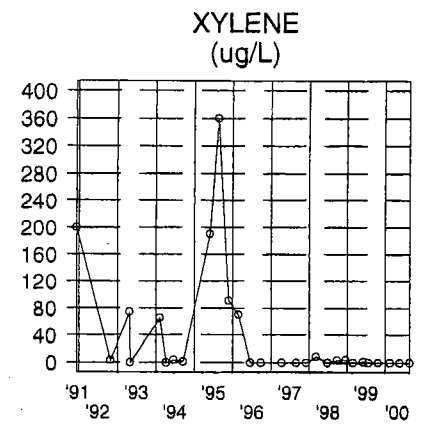
Source 3 of 7

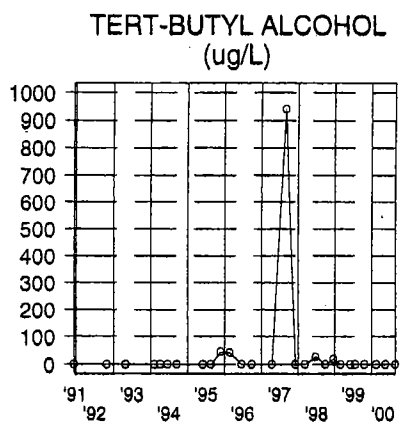
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

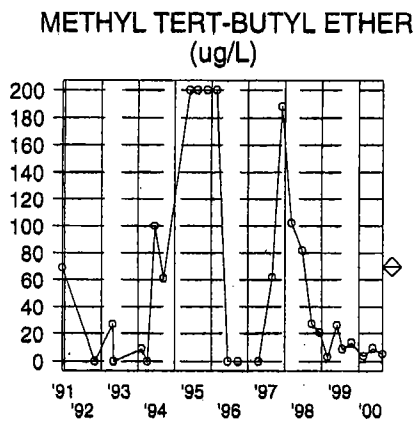


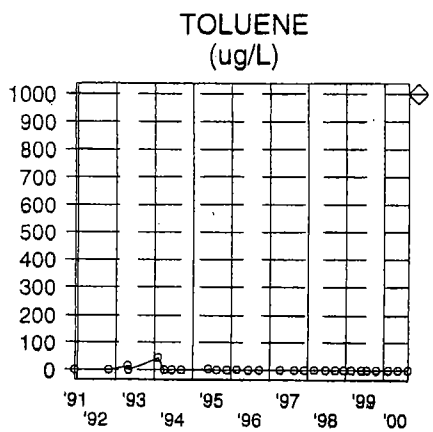


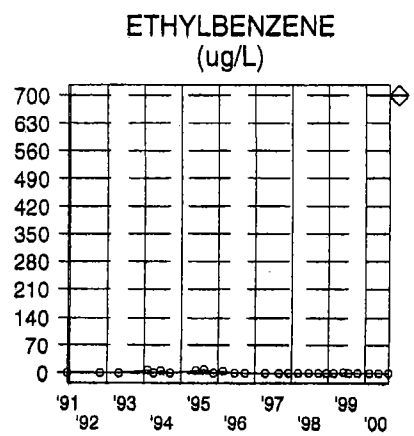


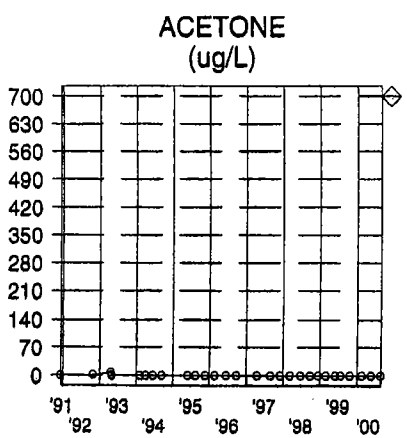












SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 08/22/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	BUTYLBENZYLPHTHALATE	NAPTHALENE	BIS(2-ETHYLHEXYL)-PHTHALAT	ISOPROPYL-BENZENE	N-PROPYL-BENZENE	Iron	Manganese	Sodium	Depth to Water	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/l	ug/l	ug/L	ug/L	ug/L	Feet	-
NJDEP Criteria:	NA	100	NLE	30	NLE	NLE	300	50	50000	-	-
12/10/1991	ENV PRO	ND	ND	ND	ND	ND	-	-	-	-	-
10/26/1992	ENV PRO	ND	ND	ND	ND	ND	-	-	-	-	-
04/21/1993	ENV PRO	ND	ND	ND	ND	ND	-	-	-	-	-
04/28/1993	21st CEN	12	1.2	2.8	ND	ND	-	-	-	-	BNA Only
02/03/1994	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
03/31/1994	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
05/25/1995	EMSL	ND	ND	ND	17	13	-	-	-	-	-
08/15/1995	EMSL	ND	21	ND	30	25	-	-	-	-	-
11/21/1995	EMSL	ND	6.6	ND	14	ND	-	-	-	-	-
02/20/1996	EMSL	ND	5.4	ND	13	8.3	-	-	-	-	-
06/13/1996	FMETL	ND	ND	-	-	-	-	-	-	-	-
09/27/1996	FMETL	ND	ND	-	-	-	-	-	-	-	-
04/11/1997	FMETL	ND	ND	-	-	-	-	-	-	3.15	V,Pb
08/28/1997	FMETL	ND	ND	-	-	-	-	-	-	4.00	V,Pb
12/02/1997	FMETL	ND	1.92	-	-	-	5340	56.6	26900	3.10	V,S,P,M
03/04/1998	FMETL	ND	1.67	-	-	-	13900	144	39600	2.48	V,S,P,M
06/19/1998	FMETL	ND	-	-	-	-	-	-	-	3.99	V,Pb
09/25/1998	FMETL	ND	-	-	-	-	-	-	-	4.56	V,Pb
12/16/1998	FMETL	ND	-	-	-	-	-	-	-	4.25	V,Pb
02/24/1999	FMETL	ND	-	-	-	-	-	-	-	3.16	V,Pb
05/29/1999	FMETL	ND	-	-	-	-	-	-	-	3.55	V,Pb
07/21/1999	FMETL	ND	-	-	-	-	-	-	-	4.85	V,Pb
10/21/1999	FMETL	ND	-	-	-	-	-	-	-	3.93	V,Pb
02/14/2000	FMETL	ND	-	-	-	-	-	-	-	3.42	V,Pb
05/15/2000	FMETL	ND	-	-	-	-	-	-	-	3.40	V,Pb
08/22/2000	FMETL	-	-	-	-	-	-	-	-	3.17	V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 08/22/2000

NOTES:

Page 2 of 2.

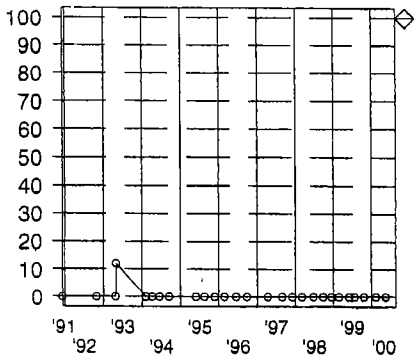
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

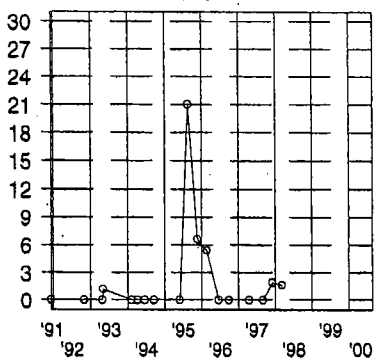
Source 3 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

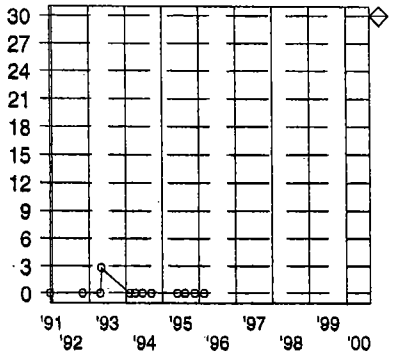
BUTYLBENZYLPHTHALATE
(ug/L)



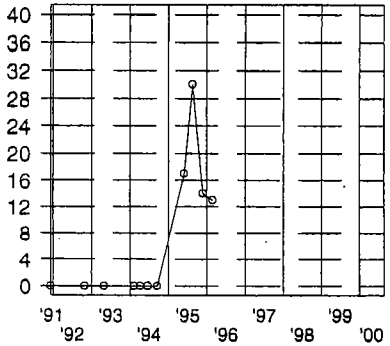
NAPHTHALENE
(ug/L)



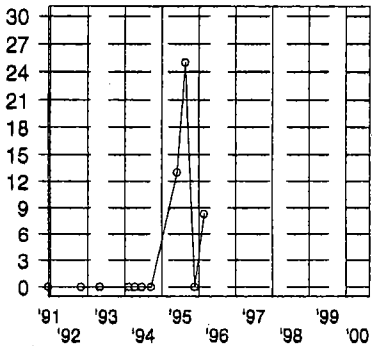
BIS(2-ETHYLHEXYL)PHTHALATE
(ug/L)



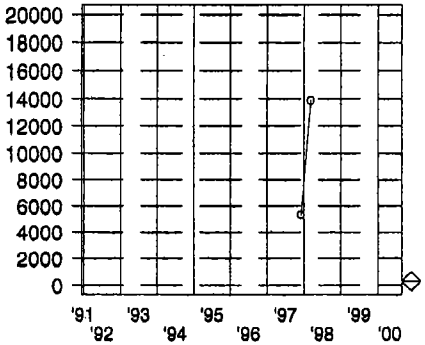
ISOPROPYLBENZENE
(ug/l)



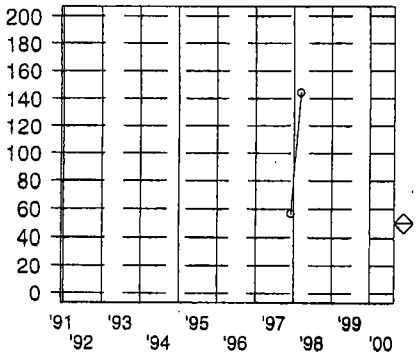
N-PROPYLBENZENE
(ug/l)



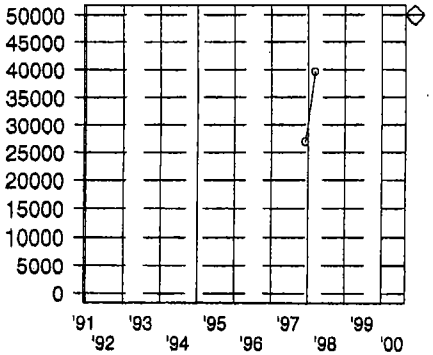
Iron
(ug/L)



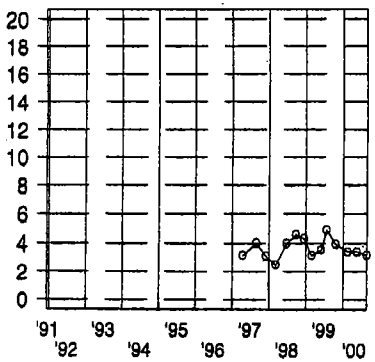
Manganese
(ug/L)



Sodium
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 08/22/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	BUTYLBENZYLPHTH-ALATE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	1	NLE	70	1000	700	700	100	-
12/10/1991	EMSL	5	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/1992	ENV PRO	ND	27	ND	ND	ND	ND	ND	ND	ND	-
04/21/1993	ENV PRO	ND	ND	ND	ND	ND	ND	ND	2.4	ND	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	10	BNA Only
02/03/1994	21st CEN	ND	5.0	14	60	ND	56	8.9	ND	ND	-
03/31/1994	21st CEN	ND	2.3	ND	ND	1.3	ND	ND	ND	ND	-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
05/25/1995	EMSL	ND	1.0	ND	ND	ND	ND	ND	ND	ND	-
08/15/1995	EMSL	2.6	1.3	ND	ND	ND	ND	ND	ND	ND	-
11/21/1995	EMSL	ND	0.6	ND	ND	ND	ND	ND	ND	ND	-
02/20/1996	EMSL	ND	1.2	ND	ND	ND	ND	ND	ND	ND	-
06/13/1996	FMETL	1.8	ND	ND	ND	-	ND	ND	ND	ND	-
09/27/1996	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	-
04/11/1997	FMETL	2.3	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
12/02/1997	FMETL	9.0	ND	ND	ND	-	ND	ND	ND	ND	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,S,P,M
06/19/1998	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
12/12/1998	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	-	ND	ND	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/14/2000	FMETL	1.4	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/15/2000D	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	3.57	-	V,Pb
08/22/2000D	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 08/22/2000

NOTES:

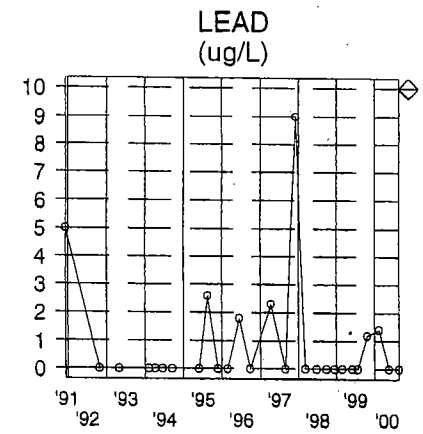
Page 1 of 2.

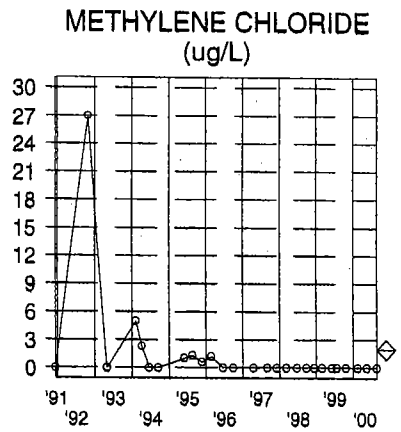
FORT MONMOUTH

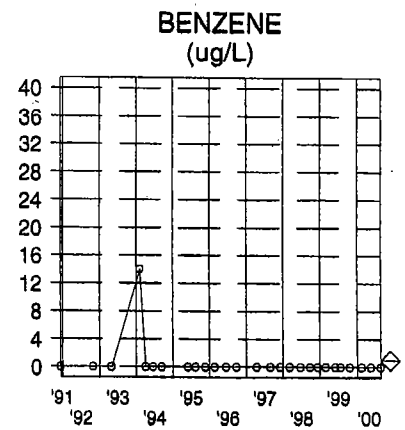
GW MONITORING
Bldg. 2567
Table / Graph A

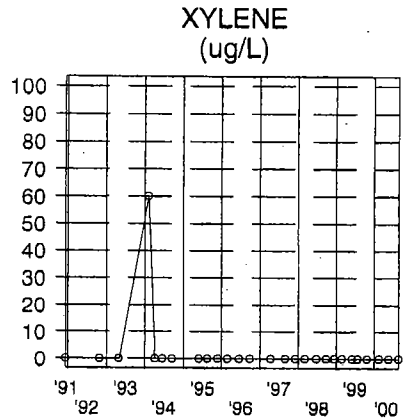
Source 4 of 7

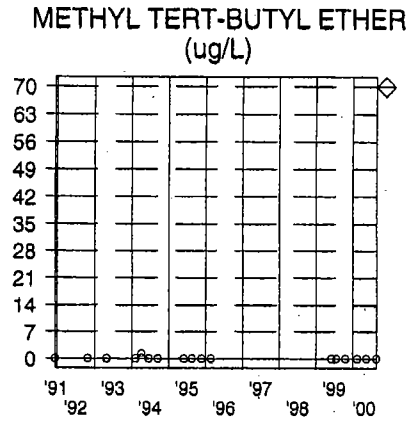
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

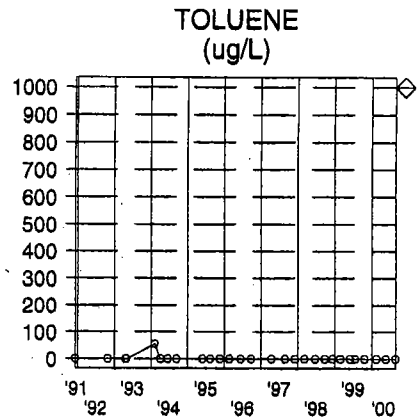


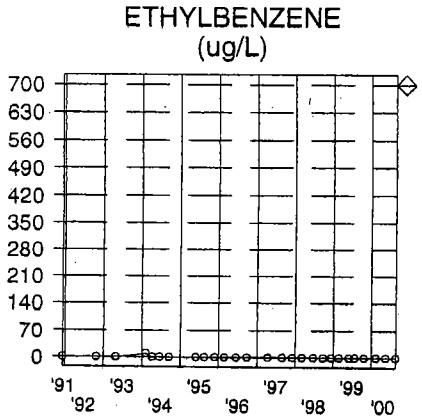


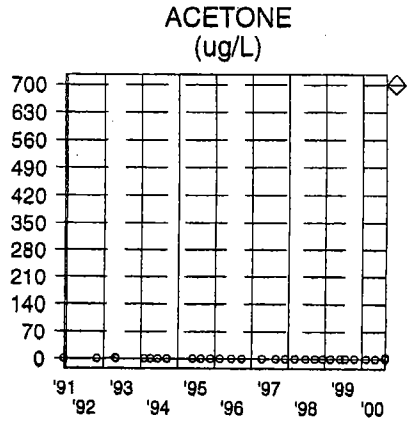


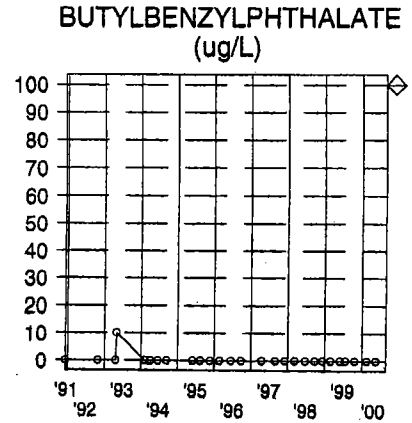












SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 08/22/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Iron	Manganese	Sodium	Depth to Water						NOTES
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	NA	300	50	50000	-						-
12/10/1991	EMSL	-	-	-	-						-
10/26/1992	ENV PRO	-	-	-	-						-
04/21/1993	ENV PRO	-	-	-	-						-
04/28/1993	21st CEN	-	-	-	-						BNA Only
02/03/1994	21st CEN	-	-	-	-						-
03/31/1994	21st CEN	-	-	-	-						-
06/14/1994	21st CEN	-	-	-	-						-
09/15/1994	21st CEN	-	-	-	-						-
05/25/1995	EMSL	-	-	-	-						-
08/15/1995	EMSL	-	-	-	-						-
11/21/1995	EMSL	-	-	-	-						-
02/20/1996	EMSL	-	-	-	-						-
06/13/1996	FMETL	-	-	-	-						-
09/27/1996	FMETL	-	-	-	-						-
04/11/1997	FMETL	-	-	-	2.55						V,Pb
08/28/1997	FMETL	-	-	-	3.20						V,Pb
12/02/1997	FMETL	3590	90	15600	2.45						V,S,P,M
03/04/1998	FMETL	4200	79	12600	2.11						V,S,P,M
06/19/1998	FMETL	-	-	-	2.33						V,Pb
09/24/1998	FMETL	-	-	-	3.55						V,Pb
12/12/1998	FMETL	-	-	-	3.11						V,Pb
02/24/1999	FMETL	-	-	-	2.44						V,Pb
05/29/1999	FMETL	-	-	-	2.76						V,Pb
07/21/1999	FMETL	-	-	-	3.98						V,Pb
10/21/1999	FMETL	-	-	-	2.37						V,Pb
02/14/2000	FMETL	-	-	-	1.69						V,Pb
05/15/2000	FMETL	-	-	-	2.65						V,Pb
05/15/2000D	FMETL	-	-	-	2.65						V,Pb
08/22/2000	FMETL	-	-	-	2.49						V,Pb
08/22/2000D	FMETL	-	-	-	2.49						V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 08/22/2000

NOTES:

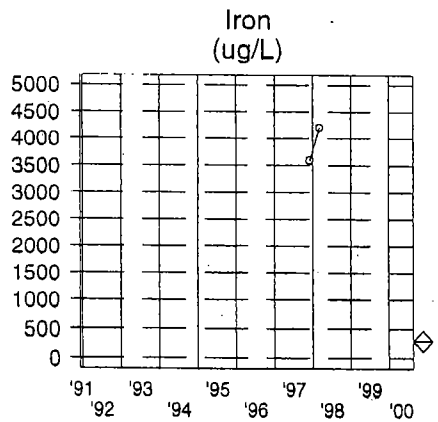
Page 2 of 2.

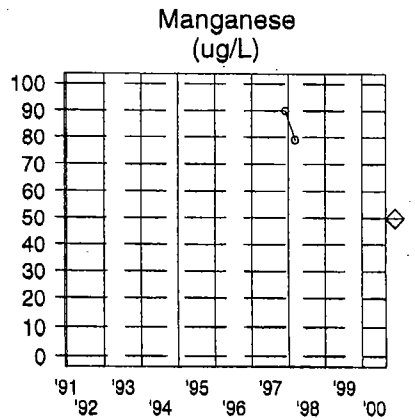
FORT MONMOUTH

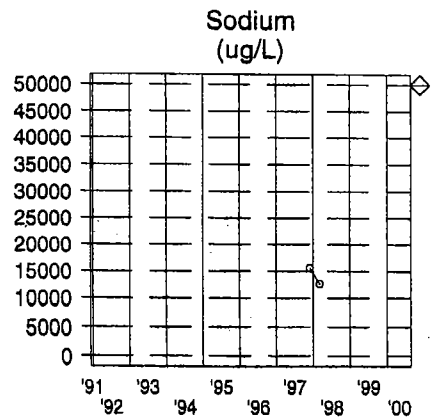
GW MONITORING
Bldg. 2567
Table / Graph A

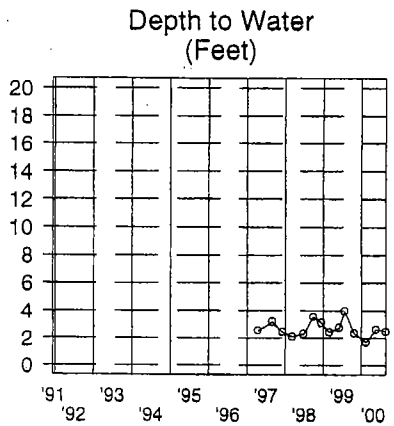
Source 4 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV









SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 08/22/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	METHY-LENE CHLORIDE	Iron	Manganese	Sodium	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	NA	10	2	300	50	50000	-				-
05/25/1995	EMSL	4.0	1.2	-	-	-	-				-
08/15/1995	EMSL	ND	1.2	-	-	-	-				-
11/21/1995	EMSL	ND	ND	-	-	-	-				-
02/20/1996	EMSL	ND	0.8	-	-	-	-				-
09/27/1996	FMETL	ND	ND	-	-	-	-				-
04/11/1997	FMETL	2.7	ND	-	-	-	7.20				V,Pb
08/28/1997	FMETL	ND	ND	-	-	-	7.50				V,Pb
12/02/1997	FMETL	7.0	ND	19200	100	10500	7.20				V,S,P,M
03/04/1998	FMETL	ND	ND	16400	56	9100	7.30				V,S,P,M
06/01/1998	FMETL	ND	ND	-	-	-	7.55				V,Pb
09/25/1998	FMETL	ND	ND	-	-	-	7.59				V,Pb
12/16/1998	FMETL	ND	ND	-	-	-	7.34				V,Pb
02/24/1999	FMETL	ND	ND	-	-	-	8.16				V,Pb
06/08/1999	FMETL	ND	ND	-	-	-	7.33				V,Pb
07/21/1999	FMETL	ND	ND	-	-	-	7.87				V,Pb
10/21/1999	FMETL	4.4	ND	-	-	-	8.57				V,Pb
02/14/2000	FMETL	1.21	ND	-	-	-	5.75				V,Pb
05/15/2000	FMETL	ND	ND	-	-	-	6.92				V,Pb
08/22/2000	FMETL	1.6	ND	-	-	-	6.73				V,Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 08/22/2000

NOTES:

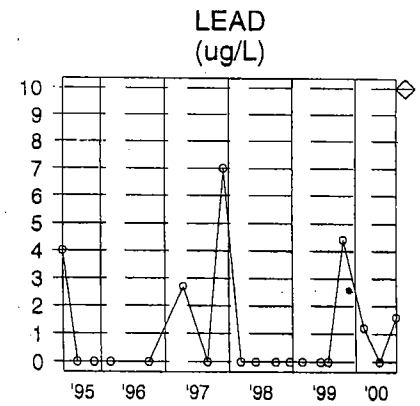
Page 1 of 1.

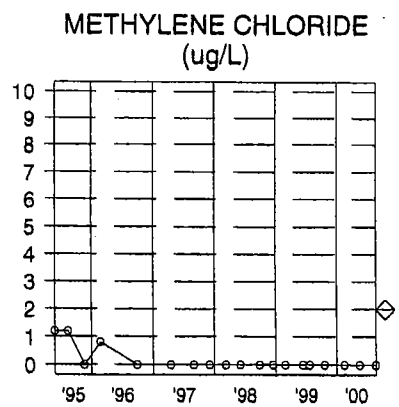
FORT MONMOUTH

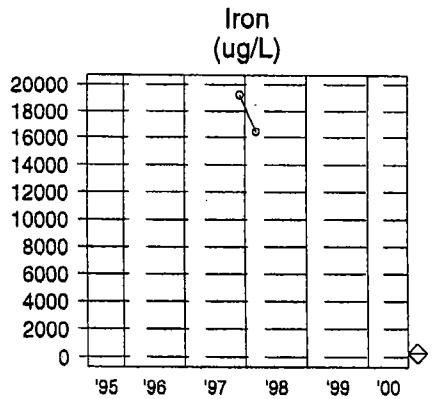
GW MONITORING
Bldg. 2567
Table / Graph A

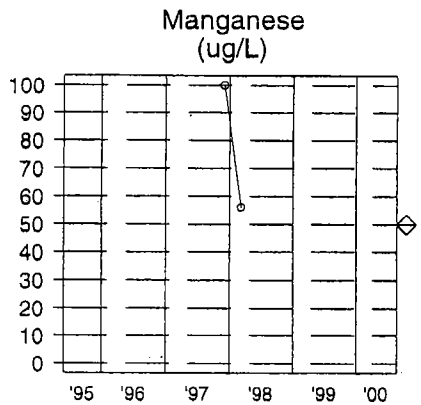
Source 5 of 7

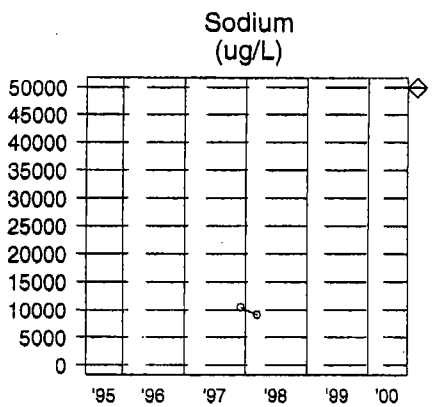
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

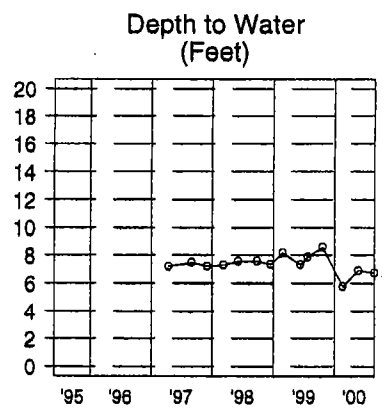












SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 08/22/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	ACETONE	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	NA	700	-								-
08/22/2000	FMETL	4.02	7.06								V,Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 08/22/2000

NOTES:

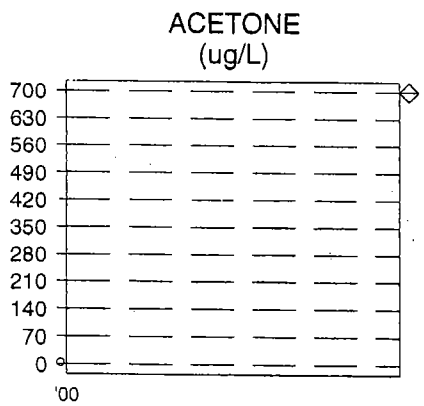
Page 1 of 1

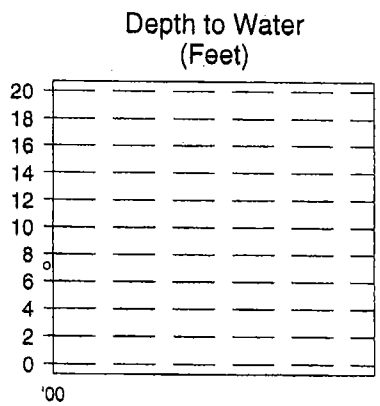
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 08/22/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	Depth to Water									NOTES
Units:	-	Feet									-
NJDEP Criteria:	NA	-									-
08/22/2000	FMETL	6.65									V,Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 08/22/2000

NOTES:

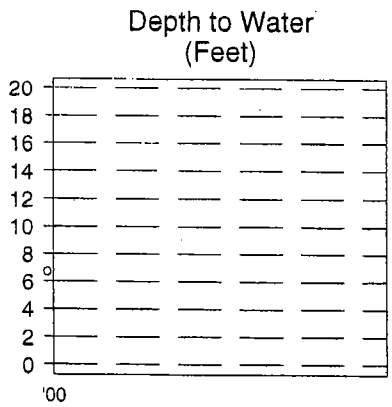
Page 1 of 1

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 08/22/2000

LEGEND:

PARAMETER

o = Date Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2000 x:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5825.04	2567MW01	29-26925	11/01/00
5825.05	2567MW02	29-26926	11/01/00
5825.06	2567MW03	29-26947	11/01/00
5825.07	2567MW04	29-26948	11/01/00
5825.08	2567MW05	29-31783	11/01/00
5825.09	2567MW06	29-42585	11/01/00
5825.10	2567MW07	29-42586	11/01/00

NJDEP Laboratory Certification # 13461

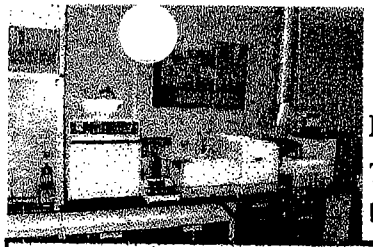
11-15-00

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallow / DERA/UST
Phone #: X26223
(X)DERA ( )OMA ( )Other:
Project No:
Location: 2567 4th Qtr '00
Samplers Name / Company: Corey McCormack, TVS

Analysis Parameters: VOTHS, Pb, Phys Read

Comments: HCL/HNO_3/<4°C

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOTHS	Pb						Phys Read	Remarks / Preservation Method
5825, .01	Trip	11/1/00	0739	AQ	2	✓							—	
.02	Field Blank		1000		3	✓	✓						—	
.03	Dupe		—		3	✓	✓						—	
.04	2567 mw01 ★		1015		3	✓	✓						0.1	29-26925
.05	2567 mw02		1019			✓	✓						0.0	29-26926
.06	2567 mw03		1025			✓	✓						8.0	29-26947
.07	2567 mw04		1030			✓	✓						0.0	29-26948
.08	2567 mw05		~~1033~~ 1036			✓	✓						0.0	29-31783
.09	2567 mw06		1035			✓	✓						0.0	29-42585
.10	2567 mw07	↓	1045	↓	↓	✓	✓						00	29-42586

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	11/1/00 1500	J. Fallow			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: Tide: N/A

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/01/00
WEATHER: Sunny, cold, windy.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.24 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.86 ft
(8.86) X .65 X 3 =17.27
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.1 ppm

PURGE START TIME: 09:00
pH 6.77 su TEMP 18.2 °C
DISSOLVED O2 5.67 ppm SPECIFIC CONDUCTIVITY 787 us/cm

PURGE END TIME: 10:14
pH 6.70 su TEMP 18.0 °C
DISSOLVED O2 3.88 ppm SPECIFIC CONDUCTIVITY 790 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.84 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 10:15
pH 6.71 su TEMP 18.1 °C
DISSOLVED O2 3.87 ppm SPECIFIC CONDUCTIVITY 791 us/cm

SAMPLE END TIME: 10:18

COMMENTS: DUP. Here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/01/00
WEATHER: Sunny, cold, windy.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.15 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.05 ft
(8.05) X .65 X 3 = 15.69
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:05
pH 6.84 su
TEMP 18.1 °C
DISSOLVED O2 5.79 ppm
SPECIFIC CONDUCTIVITY 453 us/cm

PURGE END TIME: 10:14
pH 6.80 su
TEMP 17.9 °C
DISSOLVED O2 3.22 ppm
SPECIFIC CONDUCTIVITY 450 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.15 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 10:19
pH 6.79 su
TEMP 18.0 °C
DISSOLVED O2 3.21 ppm
SPECIFIC CONDUCTIVITY 451 us/cm

SAMPLE END TIME: 10:22

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/01/00
WEATHER: Sunny, cold, windy.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.56 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.92 ft
(8.92) X .65 X 3 = 17.39
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:10
pH 6.83 su
DISSOLVED O2 5.91 ppm
TEMP 18.3 °C
SPECIFIC CONDUCTIVITY 579 us/cm

PURGE END TIME: 10:24
pH 6.78 su
DISSOLVED O2 3.39 ppm
TEMP 18.1 °C
SPECIFIC CONDUCTIVITY 574 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.37 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:25
pH 6.77 su
DISSOLVED O2 3.37 ppm
TEMP 18.2 °C
SPECIFIC CONDUCTIVITY 574 us/cm

SAMPLE END TIME: 10:28

COMMENTS: Cloudy, old fuel odor.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/01/00
WEATHER: Sunny, cold, windy.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.91 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.75 ft
(8.75) X .65 X 3 =17.06
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:15
pH 6.80 su
DISSOLVED O2 5.89 ppm
TEMP 16.9 °C
SPECIFIC CONDUCTIVITY 263 us/cm

PURGE END TIME: 10:29
pH 6.73 su
DISSOLVED O2 3.73 ppm
TEMP 16.8 °C
SPECIFIC CONDUCTIVITY 260 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.47 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 10:30
pH 6.72 su
DISSOLVED O2 3.71 ppm
TEMP 16.7 °C
SPECIFIC CONDUCTIVITY 259 us/cm

SAMPLE END TIME: 10:32

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/01/00
WEATHER: Sunny, cold, windy.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.16 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.59 ft
(7.59) X .65 X 3 =14.80
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.00 ppm

PURGE START TIME: 13:10
pH 6.87 su — TEMP 16.5 °C
DISSOLVED O2 5.87 ppm — SPECIFIC CONDUCTIVITY 333 us/cm

PURGE END TIME: 14:15
pH 6.82 su — TEMP 16.4 °C
DISSOLVED O2 3.78 ppm — SPECIFIC CONDUCTIVITY 328 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.24 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 14:16
pH 6.81 su — TEMP 16.5 °C
DISSOLVED O2 3.76 ppm — SPECIFIC CONDUCTIVITY 327 us/cm

SAMPLE END TIME: 14:19

COMMENTS: Cloudy.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/01/00
WEATHER: Sunny, cold, windy.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.26 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.48 ft
(8.48) X .65 X 3 =16.53
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.00 ppm

PURGE START TIME: 09:20
pH 6.91 su
DISSOLVED O2 5.77 ppm
TEMP 16.5 °C
SPECIFIC CONDUCTIVITY 247 us/cm

PURGE END TIME: 10:34
pH 6.88 su
DISSOLVED O2 3.82 ppm
TEMP 16.3 °C
SPECIFIC CONDUCTIVITY 244 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.75 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 10:35
pH 6.87 su
DISSOLVED O2 3.81 ppm
TEMP 16.4 °C
SPECIFIC CONDUCTIVITY 243 us/cm

SAMPLE END TIME: 10:37

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/01/00
WEATHER: Sunny, cold, windy.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: N/A ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.80 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.64 ft
(9.64) X .65 X 3 =18.79
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.00 ppm

PURGE START TIME: 09:22
pH 6.93 su
DISSOLVED O2 5.91 ppm
TEMP 16.3 °C
SPECIFIC CONDUCTIVITY 537 us/cm

PURGE END TIME: 10:44
pH 6.89 su
DISSOLVED O2 3.89 ppm
TEMP 16.1 °C
SPECIFIC CONDUCTIVITY 533 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.72 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 10:45
pH 6.88 su
DISSOLVED O2 3.87 ppm
TEMP 16.2 °C
SPECIFIC CONDUCTIVITY 532 us/cm

SAMPLE END TIME: 10:48

COMMENTS:

VOLATILES

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	: Method Detection Limit
J	: Compound Identified Below Detection Limit
B	: Compound is in Both Sample and Blank
D	: Results are from a Dilution of the Sample
U	: Compound Searched for but not Detected
E	: Compound Exceeds Calibration Limit

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB008696.D	Sample Name	Vblk256
Operator	Skelton	Field ID	Vblk256
Date Acquired	6 Nov 2000 12:17 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB008712.D	Sample Name	5825.01
Operator	Skelton	Field ID	Trip Blank
Date Acquired	7 Nov 2000 12:04 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

C:\Hpchem\Custrpt\Volatile\624fy99.crt

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB008713.D**	Sample Name	**5825.02**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**7 Nov 2000 12:44 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

C:\Hpchem\Custrpt\Volatile\624fy99.crt

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB008714.D**	Sample Name	**5825.03**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**7 Nov 2000 1:24 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	12.12	1192141	15.33 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB008715.D**	Sample Name	**5825.04**
Operator	**Skelton**	Field ID	**2567MW01**
Date Acquired	**7 Nov 2000 2:04 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	12.12	1143418	15.04 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB008716.D	Sample Name	5825.05
Operator	Skelton	Field ID	2567MW02
Date Acquired	7 Nov 2000 2:44 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB008717.D	Sample Name	5825.06
Operator	Skelton	Field ID	2567MW03
Date Acquired	7 Nov 2000 3:24 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	12.12	1502993	20.24 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB008718.D	Sample Name	5825.07
Operator	Skelton	Field ID	2567MW04
Date Acquired	7 Nov 2000 4:05 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB008719.D	Sample Name	5825.08
Operator	Skelton	Field ID	2567MW05
Date Acquired	7 Nov 2000 4:45 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB008720.D	Sample Name	5825.09
Operator	Skelton	Field ID	2567MW06
Date Acquired	7 Nov 2000 5:25 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB008721.D**	Sample Name	**5825.10**
Operator	**Skelton**	Field ID	**2567MW07**
Date Acquired	**7 Nov 2000 6:05 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

C:\Hpchem\Custrpt\Volatile\624fy99.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Vblk256

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5825 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: Vblk256

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008696.D

Level: (low/med) LOW Date Received: 11/1/00

% Moisture: not dec. _____ Date Analyzed: 11/6/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5825 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5825.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008712.D

Level: (low/med) LOW Date Received: 11/1/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5825 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5825.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008713.D

Level: (low/med) LOW Date Received: 11/1/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5825 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5825.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008714.D

Level: (low/med) LOW Date Received: 11/1/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW01

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5825 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5825.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008715.D

Level: (low/med) LOW Date Received: 11/1/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW02

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5825 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5825.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008716.D

Level: (low/med) LOW Date Received: 11/1/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW03

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5825 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5825.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008717.D

Level: (low/med) LOW Date Received: 11/1/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 13

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.49	83	JN
2. 000109-66-0	Pentane	7.34	23	JN
3.	unknown	8.78	9	J
4. 000107-83-5	Pentane, 2-methyl-	10.75	58	JN
5.	unknown	11.77	31	J
6. 000096-37-7	Cyclopentane, methyl-	15.40	100	JN
7.	unknown	17.66	26	J
8.	unknown	18.28	3	J
9. 002270-61-3	2H-Pyran, 3,4-dihydro-4-methyl-	20.67	5	JN
10. 000098-82-8	Benzene, (1-methylethyl)-	29.83	28	JN
11. 000103-65-1	Benzene, propyl-	30.80	34	JN
12. 000496-11-7	Indane	33.95	73	JN
13.	unknown	34.63	4	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW04

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5825 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5825.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008718.D

Level: (low/med) LOW Date Received: 11/1/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW05

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5825 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5825.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008719.D

Level: (low/med) LOW Date Received: 11/1/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW06

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5825 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 5825.09

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008720.D

Level: (low/med) LOW Date Received: 11/1/00

% Moisture: not dec. Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW07

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5825 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5825.10

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB008721.D

Level: (low/med) LOW Date Received: 11/1/00

% Moisture: not dec. _____ Date Analyzed: 11/7/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 11/07/00
Analysis Completed: 11/07/00

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 5825.02-.10
Sample Received: 11/01/00
Analysis Start: 11/07/00
Analysis Completed: 11/07/00

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
5825.02	Field Blank	ND	10	0.8
5825.03	Dupe	ND	10	0.8
5825.04	2567MW01	ND	10	0.8
5825.05	2567MW02	ND	10	0.8
5825.06	2567MW03	ND	10	0.8
5825.07	2567MW04	ND	10	0.8
5825.08	2567MW05	2.4	10	0.8
5825.09	2567MW06	ND	10	0.8
5825.10	2567MW07	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	BROMODI-CHLORO-METHANE	1,2-DI-CHLORO-PROPANE	CIS-1,3-DI-CHLORO-PROPENE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	1	NLE	NLE	70	1	1	NLE	-
12/10/1991	ENV PRO	4	240	2400	42	4400	2200	ND	ND	ND	-
10/26/1992	ENV PRO	ND	420	2800	302	5400	1200	77	62	48	-
10/26/1992D	ENV PRO	ND	130	3200	57	7000	1500	ND	ND	ND	-
04/21/1993	21st CEN	70	16	520	ND	470	890	ND	ND	ND	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/1994	21st CEN	ND	26	21	41	28	650	ND	ND	ND	-
03/31/1994	21st CEN	ND	ND	ND	ND	22	10	ND	ND	ND	-
06/14/1994	21st CEN	ND	ND	ND	ND	120	88	ND	ND	ND	-
09/15/1994	21st CEN	ND	ND	ND	ND	600	56	ND	ND	ND	-
05/25/1995	EMSL	ND	1.5	ND	ND	930	110	ND	ND	ND	-
08/15/1995	EMSL	3.3	1.3	ND	ND	930	29	ND	ND	ND	-
11/21/1995	EMSL	ND	36	ND	ND	860	80	ND	ND	ND	-
02/20/1996	EMSL	4	2.1	ND	ND	780	100	ND	ND	ND	-
06/13/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	2.5	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	1.4	ND	39.4	72.7	ND	240	ND	ND	ND	V,Pb
12/02/1997	FMETL	7.0	ND	ND	ND	357	20.3	ND	ND	ND	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	560	37	ND	ND	ND	V,S,P,M
06/01/1998	FMETL	0.5	ND	ND	ND	95.63	24.23	ND	ND	ND	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	283	10.02	ND	ND	ND	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	143.26	3.43	ND	ND	ND	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	675	26.15	ND	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	605.1	9.16	ND	ND	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	155.56	3.33	ND	ND	ND	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	497.3	4.8	ND	ND	ND	V,Pb
02/14/2000	FMETL	1.31	ND	ND	ND	992	8.2	ND	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	458.88	5.24	ND	ND	ND	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	218.42	1.20	ND	ND	ND	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	15.04	ND	ND	ND	V,Pb
11/01/2000D	FMETL	ND	ND	ND	ND	ND	15.33	ND	ND	ND	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 11/01/2000

NOTES:

Page 1 of 3.

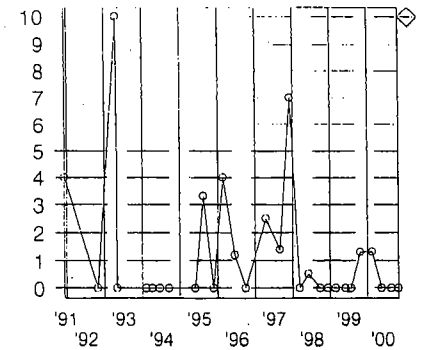
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

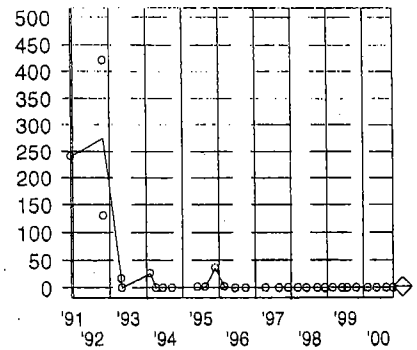
Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

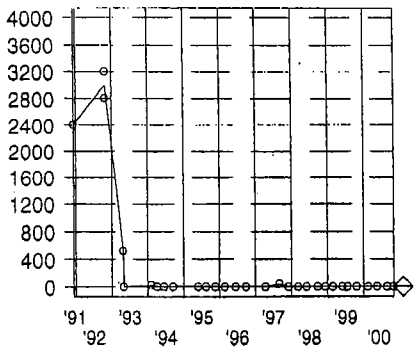
LEAD
(ug/L)



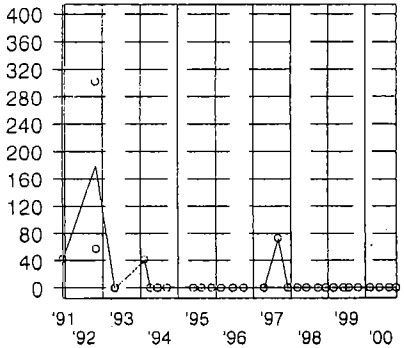
METHYLENE CHLORIDE
(ug/L)



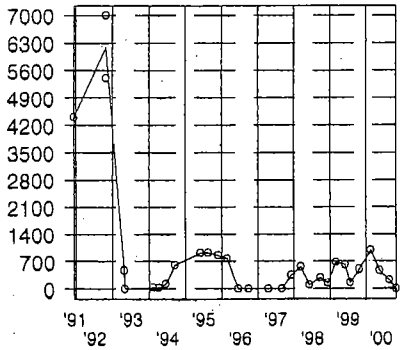
BENZENE
(ug/L)



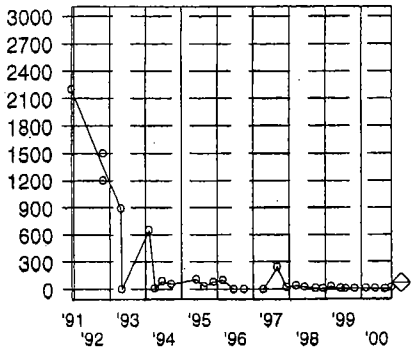
XYLENE
(ug/L)



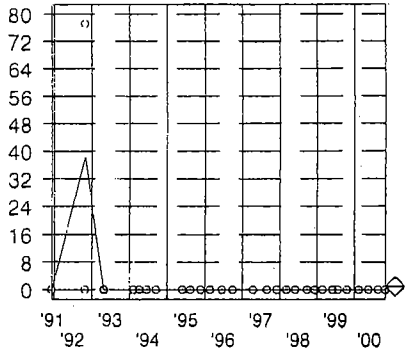
TERT-BUTYL ALCOHOL
(ug/L)



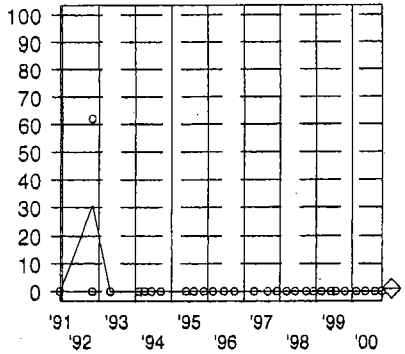
METHYL TERT-BUTYL ETHER
(ug/L)



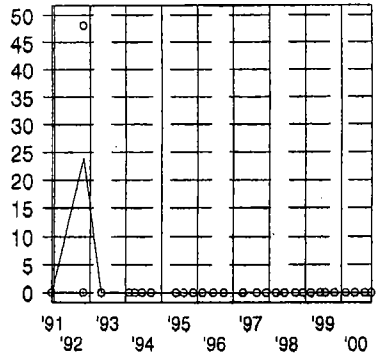
BROMODICHLOROMETHANE
(ug/L)



1,2-DICHLOROPROPANE
(ug/L)



CIS-1,3-DICHLOROPROPENE
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 11/01/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	TRI-CHLORO-ETHENE	DIBROMO-CHLORO-METHANE	1,1,2-TRI-CHLORO-ETHANE	TRANS-1,3 DICHLORO PROPENE	BROMO-FORM	TETRA-CHLORO-ETHENE	1,1,2,2-TET-RACHLORO ETHANE	TOLUENE	CHLORO-BENZENE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	1	10	3	NLE	4	1	2	1000	4	-
12/10/1991	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
10/26/1992	ENV PRO	32	130	140	220	140	51	170	73	99	-
10/26/1992D	ENV PRO	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/21/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	66	ND	-
03/31/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
05/25/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	0.7	ND	-
08/15/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
11/21/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
02/20/1996	EMSL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	1.3	ND	V,Pb
12/02/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,S,P,M
06/01/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
10/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
02/14/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
11/01/2000D	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 11/01/2000

NOTES:

Page 2 of 3.

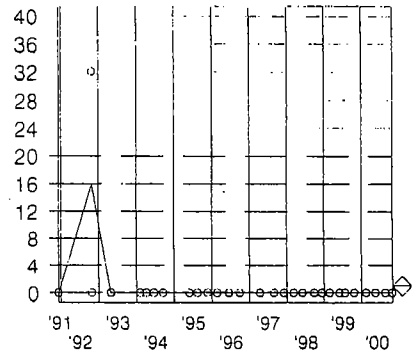
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

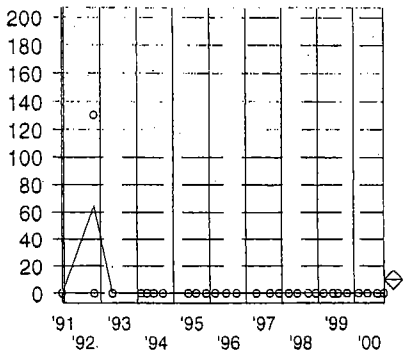
Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

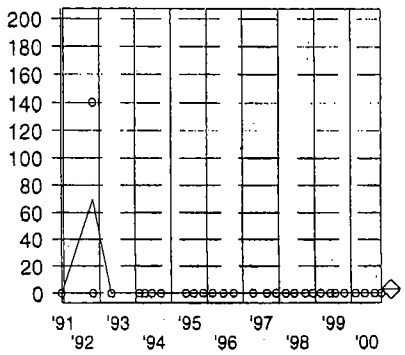
TRICHLOROETHENE
(ug/L)



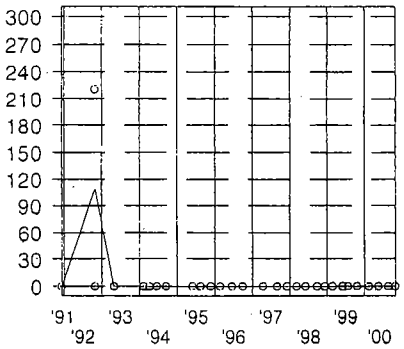
DIBROMOCHLOROMETHANE
(ug/L)



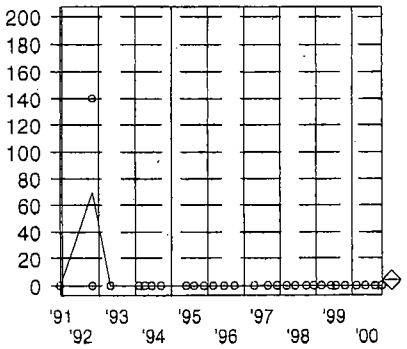
1,1,2-TRICHLOROETHANE
(ug/L)



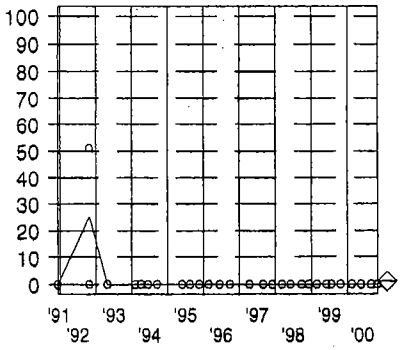
TRANS-1,3-DICHLOROPROPENE
(ug/L)



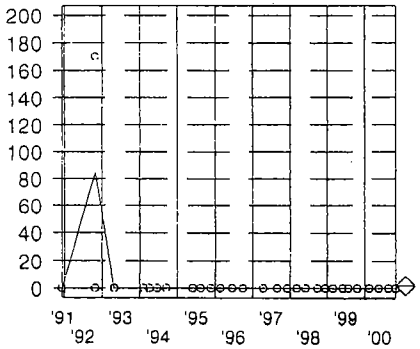
BROMOFORM
(ug/L)



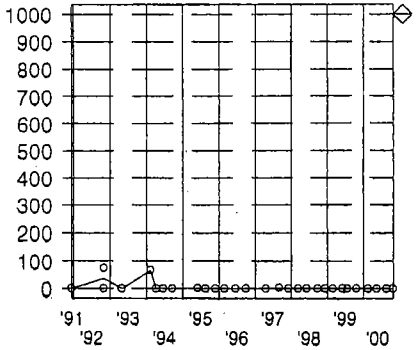
TETRACHLOROETHENE
(ug/L)



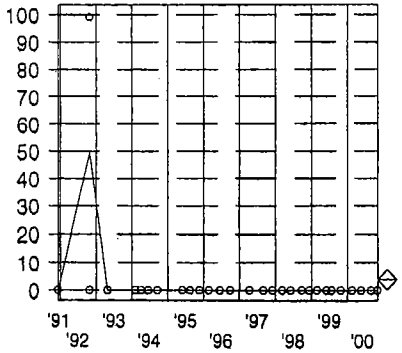
1,1,2,2-TETRACHLOROETHANE
(ug/L)



TOLUENE
(ug/L)



CHLOROBENZENE
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 11/01/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	ETHYL-BENZENE	STYRENE	1,3-DI-CHLORO-BENZENE	1,2-DI-CHLORO-BENZENE	1,4-DI-CHLORO-BENZENE	ACETONE	Depth to Water			NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet			-
NJDEP Criteria:	NA	700	100	600	600	75	700	-			-
12/10/1991	ENV PRO	ND	ND	ND	ND	ND	ND	-			-
10/26/1992	ENV PRO	90	84	100	120	120	ND	-			-
10/26/1992D	ENV PRO	ND	ND	ND	ND	ND	ND	-			-
04/21/1993	21st CEN	ND	ND	ND	ND	ND	ND	-			-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	-			BNA Only
02/03/1994	21st CEN	16	ND	ND	ND	ND	54	-			-
03/31/1994	21st CEN	ND	ND	ND	ND	ND	6.9	-			-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	ND	-			-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	ND	-			-
05/25/1995	EMSL	ND	ND	ND	ND	ND	ND	-			-
08/15/1995	EMSL	ND	ND	ND	ND	ND	ND	-			-
11/21/1995	EMSL	ND	ND	ND	ND	ND	ND	-			-
02/20/1996	EMSL	ND	ND	ND	ND	ND	ND	-			-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	-			-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	-			-
04/11/1997	FMETL	ND	ND	ND	ND	ND	ND	3.80			V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	4.80			V,Pb
12/02/1997	FMETL	ND	ND	ND	ND	ND	ND	3.90			V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	ND	ND	3.51			V,S,P,M
06/01/1998	FMETL	ND	ND	ND	ND	ND	ND	4.06			V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	5.21			V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	4.90			V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	3.75			V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	4.20			V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	5.48			V,Pb
10/21/1999	FMETL	ND	ND	ND	ND	ND	ND	4.03			V,Pb
02/14/2000	FMETL	ND	ND	ND	ND	ND	ND	3.31			V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	4.04			V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	ND	3.87			V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	ND	4.24			V,Pb
11/01/2000D	FMETL	ND	ND	ND	ND	ND	ND	4.24			V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 11/01/2000

NOTES:

Page 3 of 3.

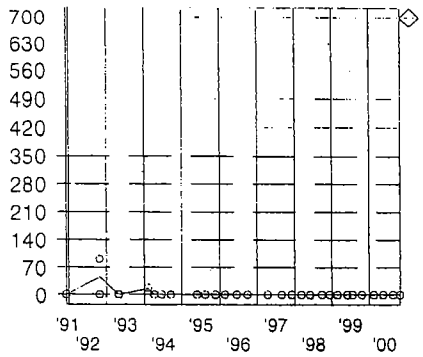
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

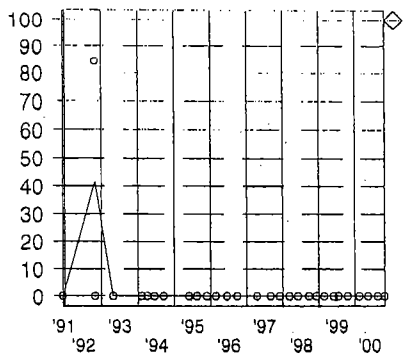
Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

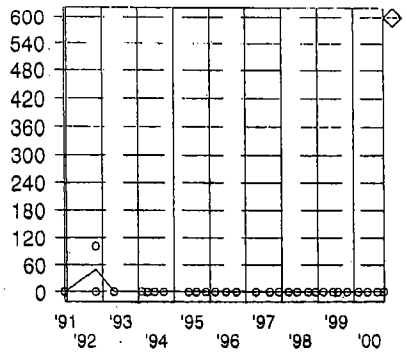
ETHYLBENZENE
(ug/L)



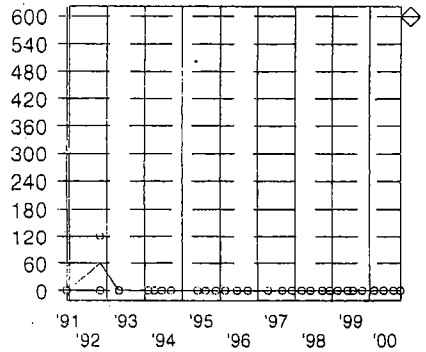
STYRENE
(ug/L)



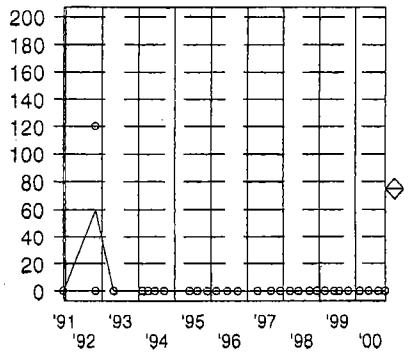
1,3-DICHLOROBENZENE
(ug/L)



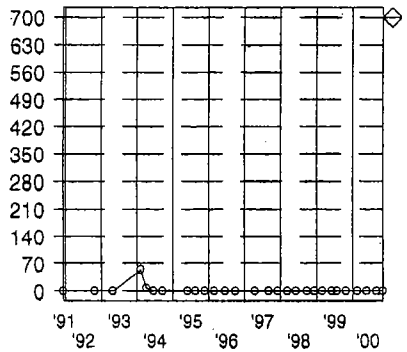
1,2-DICHLOROBENZENE
(ug/L)



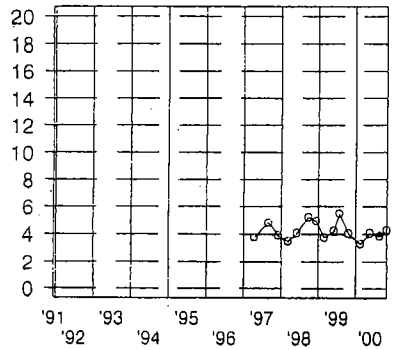
1,4 DICHLOROBENZENE
(ug/L)



ACETONE
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 11/01/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	NAPTH-ALENE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	1	NLE	70	1000	700	700	NLE	-
12/10/1991	ENV PRO	ND	7	3	ND	ND	ND	ND	ND	ND	-
10/26/1992	ENV PRO	11	23	ND	3	ND	ND	ND	ND	ND	-
04/21/1993	ENV PRO	ND	ND	ND	2.0	ND	ND	ND	2.5	ND	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/1994	21st CEN	260	4.0	19	43	7.0	55	7.4	ND	ND	-
03/31/1994	21st CEN	ND	17	ND	2.5	11	ND	ND	140	ND	-
06/14/1994	21st CEN	ND	ND	ND	3.0	11	ND	1.1	ND	ND	-
09/15/1994	21st CEN	ND	ND	ND	5.5	4.1	1.8	1.2	ND	ND	-
05/25/1995	EMSL	ND	0.9	ND	6.5	3.1	ND	0.8	ND	11	-
08/15/1995	EMSL	5.6	1.3	ND	5.3	2.5	ND	ND	ND	11	-
11/21/1995	EMSL	ND	0.6	ND	3.6	1.6	ND	ND	ND	7.3	-
02/20/1996	EMSL	ND	2.0	ND	4.2	2	ND	ND	ND	7.2	-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	10.7	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
12/02/1997	FMETL	20	ND	ND	ND	ND	ND	ND	ND	4.79	V,S,P,M
03/04/1998	FMETL	8.0	ND	ND	ND	ND	ND	ND	ND	1.67	V,S,P,M
06/01/1998	FMETL	1.4	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
02/14/2000	FMETL	1.49	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	5.99	-	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 11/01/2000

NOTES:

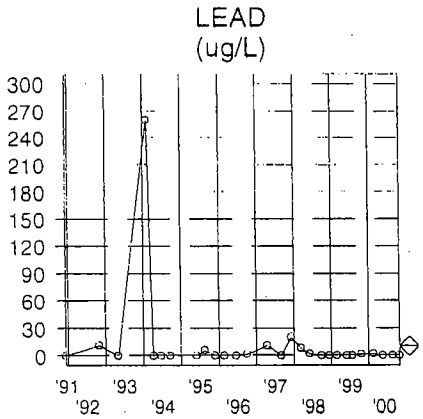
Page 1 of 2.

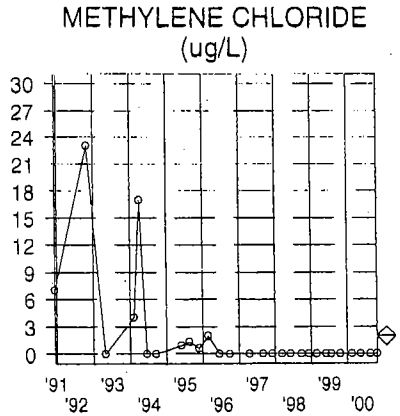
FORT MONMOUTH

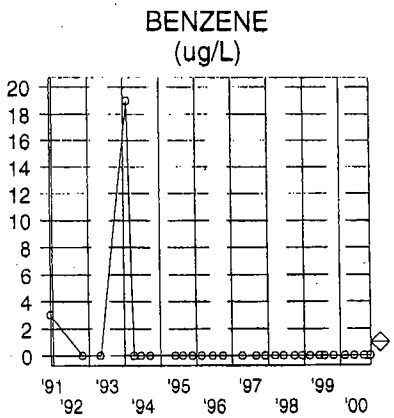
GW MONITORING
Bldg. 2567
Table / Graph A

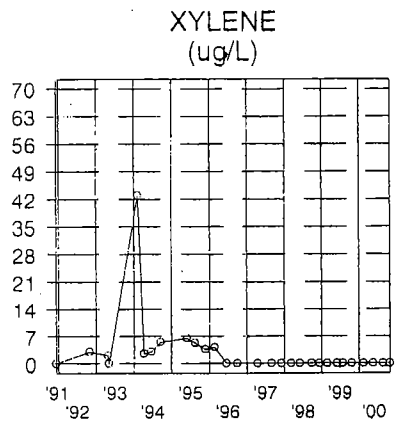
Source 2 of 7

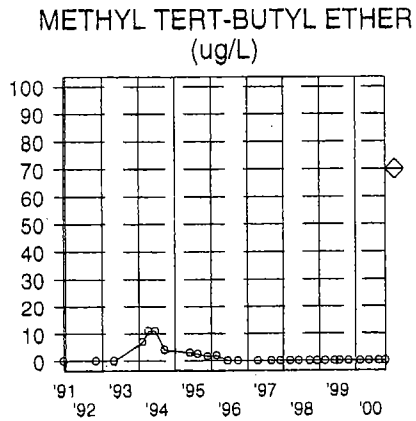
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

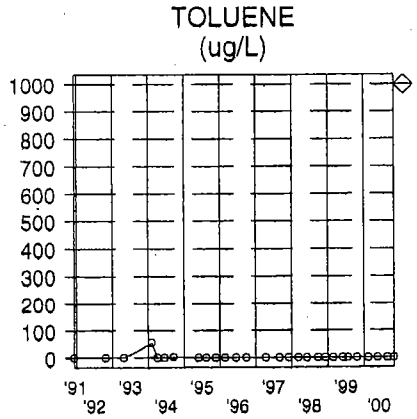


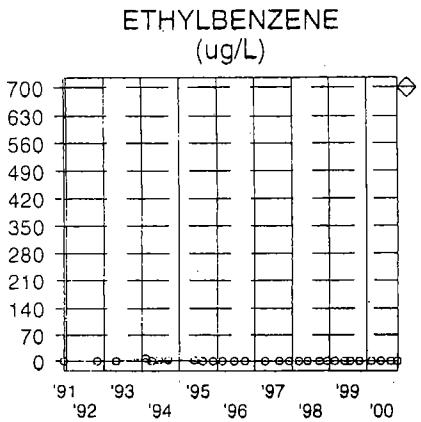


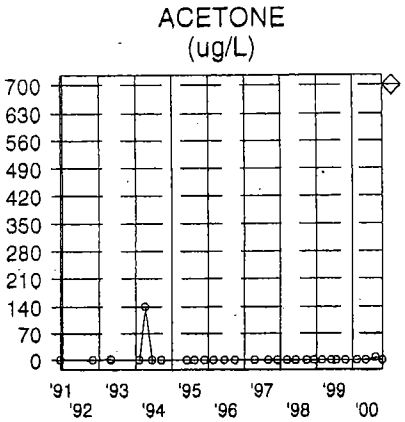


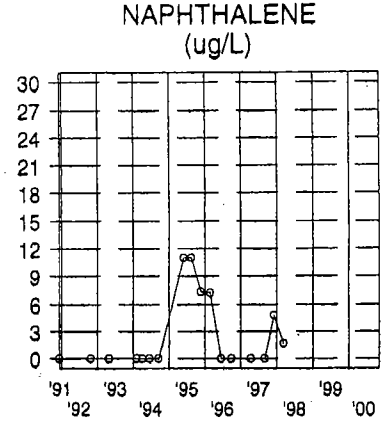












SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 11/01/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Depth to Water									NOTES
Units:	-	Feet									-
NJDEP Criteria:	NA	-									-
12/10/1991	ENV PRO	-									-
10/26/1992	ENV PRO	-									-
04/21/1993	ENV PRO	-									-
04/28/1993	21st CEN	-									BNA Only
02/03/1994	21st CEN	-									-
03/31/1994	21st CEN	-									-
06/14/1994	21st CEN	-									-
09/15/1994	21st CEN	-									-
05/25/1995	EMSL	-									-
08/15/1995	EMSL	-									-
11/21/1995	EMSL	-									-
02/20/1996	EMSL	-									-
06/13/1996	FMETL	-									-
09/27/1996	FMETL	-									-
04/11/1997	FMETL	3.40									V,Pb
08/28/1997	FMETL	4.30									V,Pb
12/02/1997	FMETL	3.45									V,S,P,M
03/04/1998	FMETL	2.92									V,S,P,M
06/01/1998	FMETL	3.59									V,Pb
09/24/1998	FMETL	4.73									V,Pb
12/09/1998	FMETL	3.42									V,Pb
02/24/1999	FMETL	3.38									V,Pb
05/29/1999	FMETL	3.83									V,Pb
07/21/1999	FMETL	5.03									V,Pb
10/21/1999	FMETL	3.65									V,Pb
02/14/2000	FMETL	3.00									V,Pb
05/15/2000	FMETL	3.77									V,Pb
08/22/2000	FMETL	3.51									V,Pb
11/01/2000	FMETL	4.15									V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 11/01/2000

NOTES:

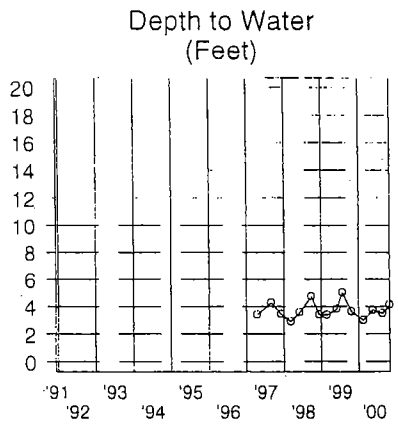
Page 2 of 2.

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 11/01/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	NA	10	2	1	NLE	NLE	70	1000	700	700	-
12/10/1991	ENV PRO	ND	240	110	200	ND	69	ND	ND	ND	-
10/26/1992	ENV PRO	5	24	ND	3	ND	ND	ND	ND	1	-
04/21/1993	ENV PRO	60	ND	180	74.2	ND	27	15	ND	7.7	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/1994	21st CEN	41	4.4	19	65	ND	9.1	43	7.0	ND	-
03/31/1994	21st CEN	25	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/1994	21st CEN	3	ND	15	3.4	ND	100	ND	5.4	ND	-
09/15/1994	21st CEN	ND	ND	ND	1.4	ND	61	ND	ND	ND	-
05/25/1995	EMSL	2.7	21	94	190	ND	400	3.8	6.3	ND	-
08/15/1995	EMSL	ND	25	89	360	ND	670	ND	8.4	ND	-
11/21/1995	EMSL	ND	18	35	91	46	360	ND	ND	ND	-
02/20/1996	EMSL	6	ND	40	70	43	250	1	4.5	ND	-
06/13/1996	FMETL	0.7	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	6.2	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	1.8	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	ND	25	ND	ND	940	62	ND	ND	ND	V,Pb
12/02/1997	FMETL	10	ND	4.31	ND	ND	188	ND	ND	ND	V,S,P,M
03/04/1998	FMETL	ND	ND	19	8.6	ND	102	ND	ND	ND	V,S,P,M
06/19/1998	FMETL	ND	ND	4.68	ND	27.52	81.82	ND	ND	ND	V,Pb
09/25/1998	FMETL	ND	ND	5.96	3.62	ND	27.27	ND	ND	ND	V,Pb
12/16/1998	FMETL	ND	ND	15.45	3.67	19.38	20.54	ND	ND	ND	V,Pb
02/24/1999	FMETL	1.0	ND	1.03	ND	ND	3.3	ND	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	1.70	1.29	ND	26.34	ND	1.04	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	8.98	ND	ND	ND	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	ND	13.08	ND	ND	ND	V,Pb
02/14/2000	FMETL	1.22	ND	ND	ND	ND	3.78	ND	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	9.35	ND	ND	ND	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	5.36	ND	ND	ND	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	20.24	ND	ND	ND	V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 11/01/2000

NOTES:

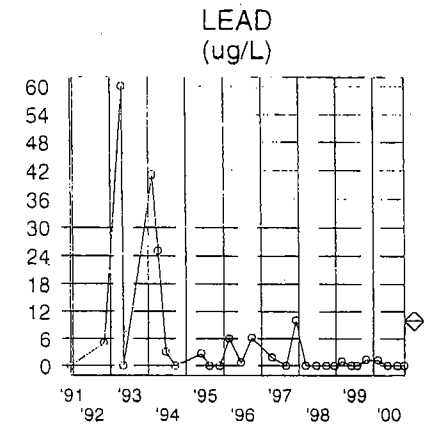
Page 1 of 2.

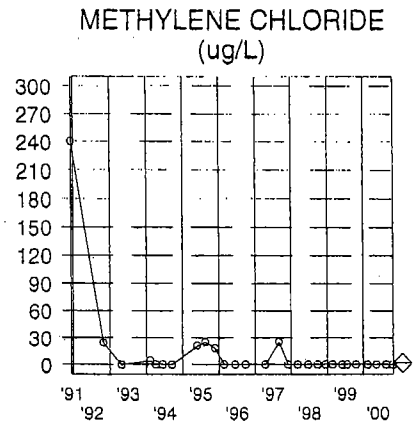
FORT MONMOUTH

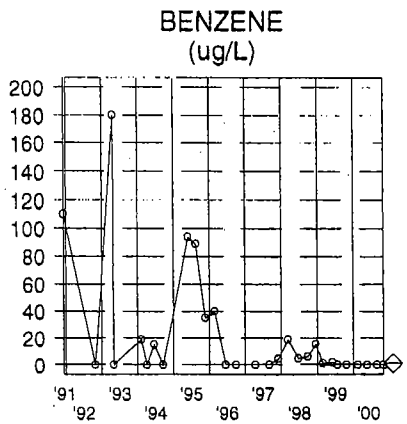
GW MONITORING
Bldg. 2567
Table / Graph A

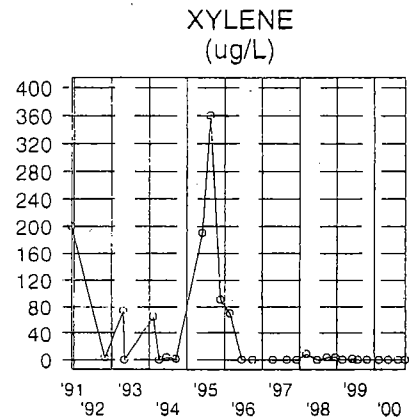
Source 3 of 7

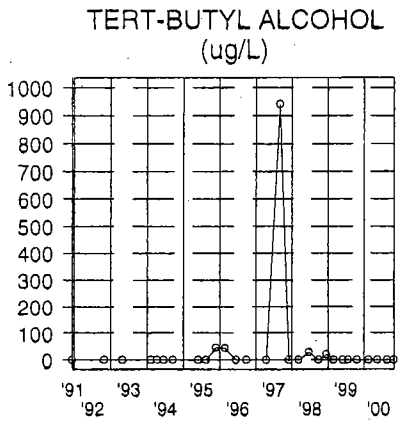
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

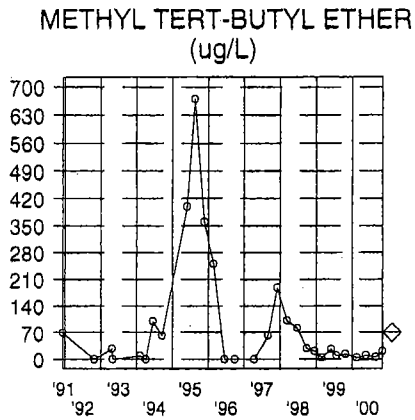


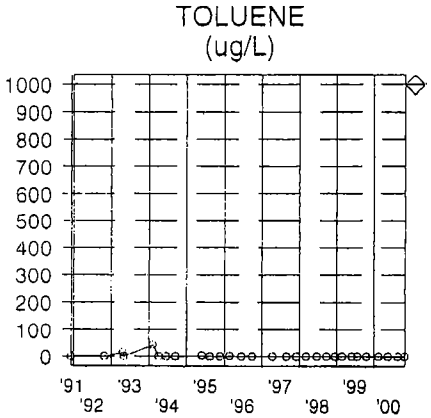


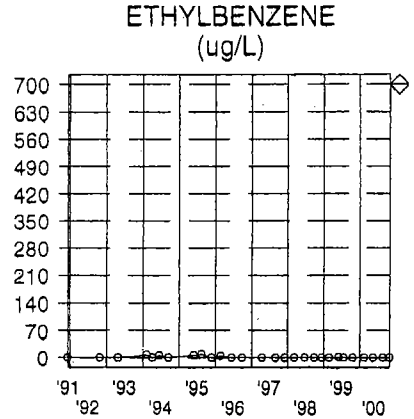


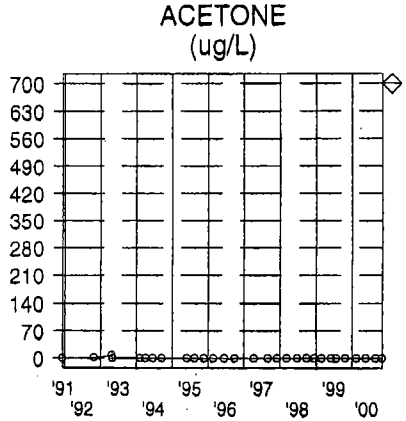












SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 11/01/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	NAPTH-ALENE	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	NA	NLE	-								-
12/10/1991	ENV PRO	ND	-								-
10/26/1992	ENV PRO	ND	-								-
04/21/1993	ENV PRO	ND	-								-
04/28/1993	21st CEN	1.2	-								BNA Only
02/03/1994	21st CEN	ND	-								-
03/31/1994	21st CEN	ND	-								-
06/14/1994	21st CEN	ND	-								-
09/15/1994	21st CEN	ND	-								-
05/25/1995	EMSL	ND	-								-
08/15/1995	EMSL	21	-								-
11/21/1995	EMSL	6.6	-								-
02/20/1996	EMSL	5.4	-								-
06/13/1996	FMETL	ND	-								-
09/27/1996	FMETL	ND	-								-
04/11/1997	FMETL	ND	3.15								V,Pb
08/28/1997	FMETL	ND	4.00								V,Pb
12/02/1997	FMETL	1.92	3.10								V,S,P,M
03/04/1998	FMETL	1.67	2.48								V,S,P,M
06/19/1998	FMETL	-	3.99								V,Pb
09/25/1998	FMETL	-	4.56								V,Pb
12/16/1998	FMETL	-	4.25								V,Pb
02/24/1999	FMETL	-	3.16								V,Pb
05/29/1999	FMETL	-	3.55								V,Pb
07/21/1999	FMETL	-	4.85								V,Pb
10/21/1999	FMETL	-	3.93								V,Pb
02/14/2000	FMETL	-	3.42								V,Pb
05/15/2000	FMETL	-	3.40								V,Pb
08/22/2000	FMETL	-	3.17								V,Pb
11/01/2000	FMETL	-	3.56								V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 11/01/2000

NOTES:

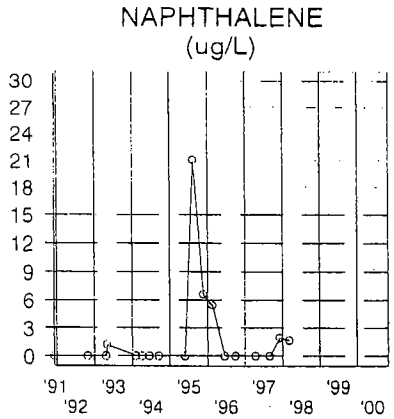
Page 2 of 2.

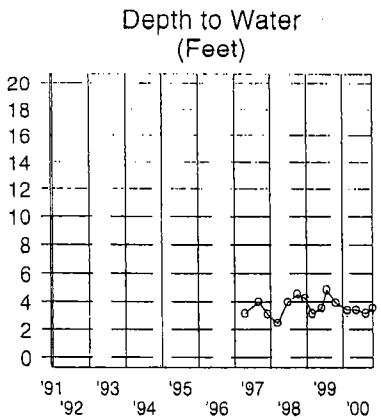
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 11/01/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TOLUENE	ETHYL-BENZENE	Depth to Water			NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet			-
NJDEP Criteria:	NA	10	2	1	NLE	1000	700	-			-
12/10/1991	EMSL	5	ND	ND	ND	ND	ND	-			-
10/26/1992	ENV PRO	ND	27	ND	ND	ND	ND	-			-
04/21/1993	ENV PRO	ND	ND	ND	ND	ND	ND	-			-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	-			BNA Only
02/03/1994	21st CEN	ND	5.0	14	60	56	8.9	-			-
03/31/1994	21st CEN	ND	2.3	ND	ND	ND	ND	-			-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	ND	-			-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	ND	-			-
05/25/1995	EMSL	ND	1.0	ND	ND	ND	ND	-			-
08/15/1995	EMSL	2.6	1.3	ND	ND	ND	ND	-			-
11/21/1995	EMSL	ND	0.6	ND	ND	ND	ND	-			-
02/20/1996	EMSL	ND	1.2	ND	ND	ND	ND	-			-
06/13/1996	FMETL	1.8	ND	ND	ND	ND	ND	-			-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	-			-
04/11/1997	FMETL	2.3	ND	ND	ND	ND	ND	2.55			V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	3.20			V,Pb
12/02/1997	FMETL	9.0	ND	ND	ND	ND	ND	2.45			V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	ND	ND	2.11			V,S,P,M
06/19/1998	FMETL	ND	ND	ND	ND	ND	ND	2.33			V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	3.55			V,Pb
12/12/1998	FMETL	ND	ND	ND	ND	ND	ND	3.11			V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	2.44			V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	2.76			V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	3.98			V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	ND	2.37			V,Pb
02/14/2000	FMETL	1.4	ND	ND	ND	ND	ND	1.69			V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	2.65			V,Pb
05/15/2000D	FMETL	ND	ND	ND	ND	ND	ND	2.65			V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	ND	2.49			V,Pb
08/22/2000D	FMETL	ND	ND	ND	ND	ND	ND	2.49			V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	ND	2.91			V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 11/01/2000

NOTES:

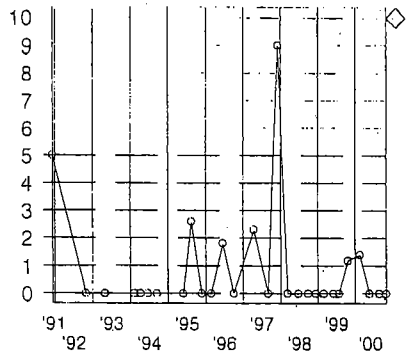
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

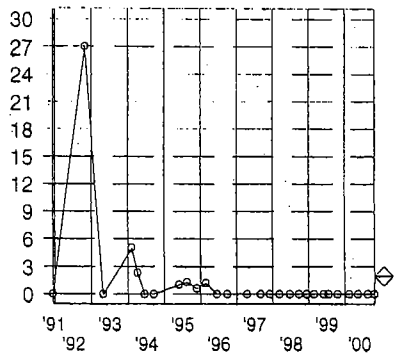
Source 4 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

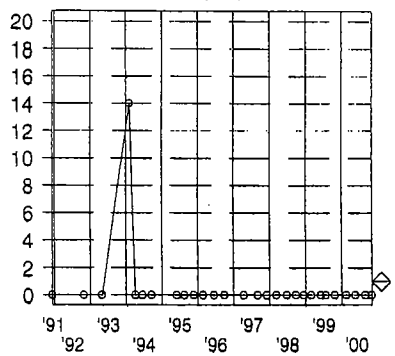
LEAD
(ug/L)



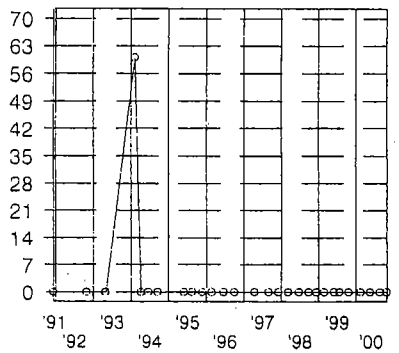
METHYLENE CHLORIDE
(ug/L)



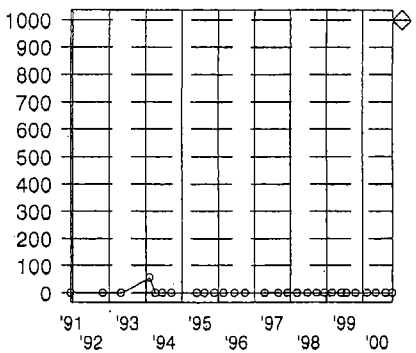
BENZENE
(ug/L)



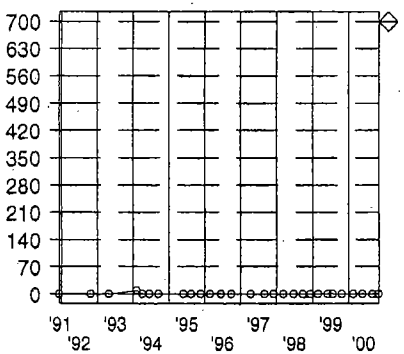
XYLENE
(ug/L)



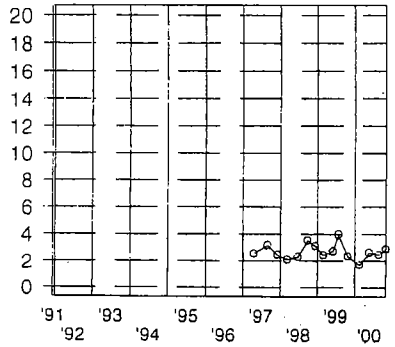
TOLUENE
(ug/L)



ETHYLBENZENE
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 11/01/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	Depth to Water							NOTES
Units:	-	ug/L	ug/L	Feet							-
NJDEP Criteria:	NA	10	2	-							-
05/25/1995	EMSL	4.0	1.2	-							-
08/15/1995	EMSL	ND	1.2	-							-
11/21/1995	EMSL	ND	ND	-							-
02/20/1996	EMSL	ND	0.8	-							-
09/27/1996	FMETL	ND	ND	-							-
04/11/1997	FMETL	2.7	ND	7.20							V,Pb
08/28/1997	FMETL	ND	ND	7.50							V,Pb
12/02/1997	FMETL	7.0	ND	7.20							V,S,P,M
03/04/1998	FMETL	ND	ND	7.30							V,S,P,M
06/01/1998	FMETL	ND	ND	7.55							V,Pb
09/25/1998	FMETL	ND	ND	7.59							V,Pb
12/16/1998	FMETL	ND	ND	7.34							V,Pb
02/24/1999	FMETL	ND	ND	8.16							V,Pb
06/08/1999	FMETL	ND	ND	7.33							V,Pb
07/21/1999	FMETL	ND	ND	7.87							V,Pb
10/21/1999	FMETL	4.4	ND	8.57							V,Pb
02/14/2000	FMETL	1.21	ND	5.75							V,Pb
05/15/2000	FMETL	ND	ND	6.92							V,Pb
08/22/2000	FMETL	1.6	ND	6.73							V,Pb
11/01/2000	FMETL	2.4	ND	7.16							V,Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 11/01/2000

NOTES:

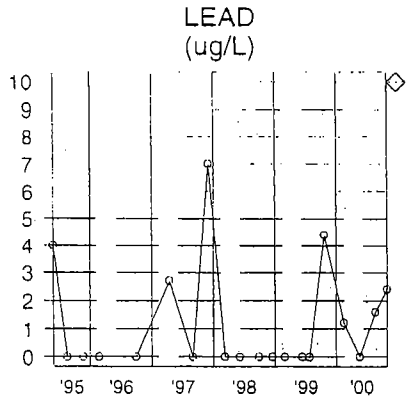
Page 1 of 1.

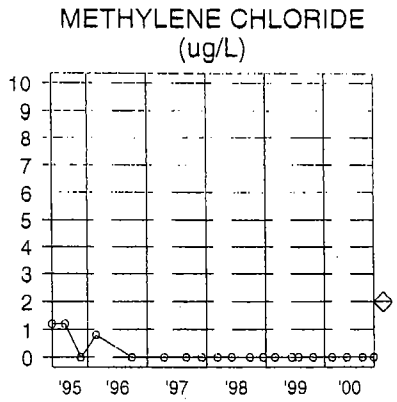
FORT MONMOUTH

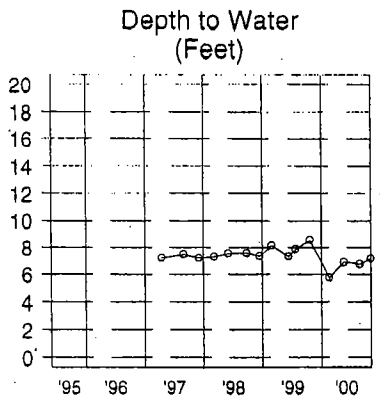
GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 11/01/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	ACETONE	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	NA	700	-								-
08/22/2000	FMETL	4.02	7.06								V,Pb
11/01/2000	FMETL	ND	7.26								V,Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 11/01/2000

NOTES:

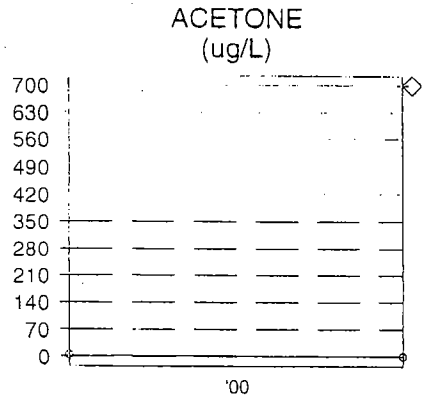
Page 1 of 1

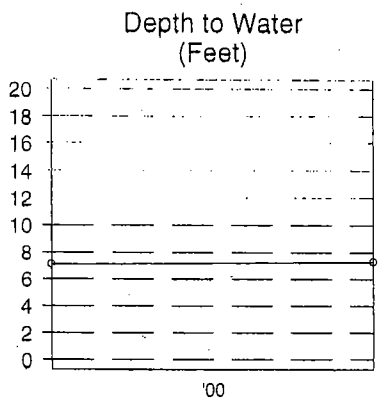
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 11/01/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2000 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Depth to Water									NOTES
Units:	-	Feet									-
NJDEP Criteria:	NA	-									-
08/22/2000	FMETL	6.65									V,Pb
11/02/2000	FMETL	6.80									V,Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 11/02/2000

NOTES:

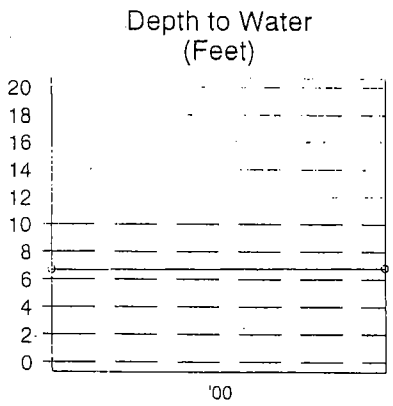
Page 1 of 1

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 11/02/2000

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2000 x:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
710	2567MW01	29-26925	02/09/01
711	2567MW02	29-26926	02/09/01
712	2567MW03	29-26947	02/09/01
713	2567MW04	29-26948	02/09/01
714	2567MW05	29-31783	02/09/01
715	2567MW06	29-42585	02/09/01
716	2567MW07	29-42586	02/09/01

NJDEP Laboratory Certification # 13461

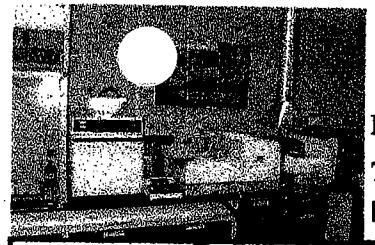
3-22-01

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: X26223
(X)DERA ( )OMA ( )Other:_____

Project No:
Location: 2567 wells
1st Qrtr '01

Samplers Name / Company: Corey McCormack, TVS

Analysis Parameters: VOC's, Pb, Haz Read

Comments: HCL/HNO3/<4°C

Lims Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	VOC's	Pb						Haz Read	Remarks / Preservation Method
707 .01	Trip	2/9/01	0739	AQ	2	✓							—	
708 .02	Field Blank		0930		3	✓	✓						—	
709 .03	Dupe		—		3	✓	✓						—	
710 .04	2567 MW01		1002		3	✓	✓						0.1	29 - 26925
711 .05	2567 MW02		0946			✓	✓						0.0	29 - 26926
712 .06	2567 MW03		0950			✓	✓						3.1	29 - 26947
713 .07	2567 MW04		0956			✓	✓						0.0	29 - 26948
714 .08	2567 MW05		1319			✓	✓						0.0	29 - 31783
715 .09	2567 MW06		1304			✓	✓						0.0	29 - 294585
716 .10	2567 MW07		1313			✓	✓						0.0	29 - 42586

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	2/9/01 1410	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks: Tide: N/A

print legibly

Coc.xls2/6/01

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02 /09 /01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.30 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.80 ft
(9.80) X .65 X 3 = 19.11
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.1 ppm

PURGE START TIME: 08:39
pH 7.11 su
DISSOLVED O2 5.87 ppm
TEMP 9.9 °C
SPECIFIC CONDUCTIVITY 673 us/cm

PURGE END TIME: 10:01
pH 7.14 su
DISSOLVED O2 5.23 ppm
TEMP 9.7 °C
SPECIFIC CONDUCTIVITY 674 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.20 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 10:02
pH 7.14 su
DISSOLVED O2 5.22 ppm
TEMP 9.7 °C
SPECIFIC CONDUCTIVITY 674 us/cm

SAMPLE END TIME: 10:07

COMMENTS: Slightly cloudy, orange tinge.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02 /09 /01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.75 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.45 ft
(9.45) X .65 X 3 = 18:42
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:27
pH 6.92 su
DISSOLVED O2 5.78 ppm
TEMP 10.6 °C
SPECIFIC CONDUCTIVITY 374 us/cm

PURGE END TIME: 09:45
pH 6.90 su
DISSOLVED O2 5.11 ppm
TEMP 10.0 °C
SPECIFIC CONDUCTIVITY 371 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.79 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 09:46
pH 6.96 su
DISSOLVED O2 5.07 ppm
TEMP 9.9 °C
SPECIFIC CONDUCTIVITY 370 us/cm

SAMPLE END TIME: 09:49

COMMENTS: Slightly cloudy, orange tinge.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02 /09 /01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.50 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 10.00 ft
(10.00) X .65 X 3 = 19.5
GALLONS OF H2O TO BE PURGED: 20 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 3.1 ppm

PURGE START TIME: 08:20
pH 7.00 su TEMP 9.7 °C
DISSOLVED O2 5.79 ppm SPECIFIC CONDUCTIVITY 543 us/cm

PURGE END TIME: 09:47
pH 6.98 su TEMP 9.3 °C
DISSOLVED O2 5.07 ppm SPECIFIC CONDUCTIVITY 540 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.30 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 20 gal

SAMPLE START TIME: 09:50
pH 6.98 su TEMP 9.3 °C
DISSOLVED O2 5.07 ppm SPECIFIC CONDUCTIVITY 540 us/cm

SAMPLE END TIME: 09:55

COMMENTS: Fuel odor. Slightly cloudy.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02 /09 /01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 1.99 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.67 ft
(9.67) X .65 X 3 = 18.80
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:31
pH 6.85 su TEMP 7.5 °C
DISSOLVED O2 5.81 ppm SPECIFIC CONDUCTIVITY 325 us/cm

PURGE END TIME: 09:51
pH 6.83 su TEMP 7.4 °C
DISSOLVED O2 5.21 ppm SPECIFIC CONDUCTIVITY 325 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 2.59 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 09:56
pH 6.82 su TEMP 7.4 °C
DISSOLVED O2 5.20 ppm SPECIFIC CONDUCTIVITY 325 us/cm

SAMPLE END TIME: 10:00

COMMENTS: DUP. Here. Slightly cloudy, root parts.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02 /09 /01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.26 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.49 ft
(9.49) X .65 X 3 = 18.50
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:43
pH 7.11 su TEMP 8.9 °C
DISSOLVED O2 6.00 ppm SPECIFIC CONDUCTIVITY 1397 us/cm

PURGE END TIME: 13:05
pH 7.07 su TEMP 8.3 °C
DISSOLVED O2 5.32 ppm SPECIFIC CONDUCTIVITY 1391 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.12 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 13:19
pH 7.07 su TEMP 8.3 °C
DISSOLVED O2 5.31 ppm SPECIFIC CONDUCTIVITY 1391 us/cm

SAMPLE END TIME: 13:25

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02 /09 /01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.44 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.30 ft
(9.30) X .65 X 3 = 18.13
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:44
pH 4.32 su TEMP 7.7 °C
DISSOLVED O2 6.11 ppm SPECIFIC CONDUCTIVITY 250 us/cm

PURGE END TIME: 13:03
pH 4.31 su TEMP 7.3 °C
DISSOLVED O2 5.30 ppm SPECIFIC CONDUCTIVITY 248 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.03 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 13:04
pH 4.30 su TEMP 7.2 °C
DISSOLVED O2 5.27 ppm SPECIFIC CONDUCTIVITY 248 us/cm

SAMPLE END TIME: 13:09

COMMENTS: Very low pH. Recalibrate pH count.

VOLATILES

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	**:**	**Method Detection Limit**
J	**:**	**Compound identified below detection limit**
B	**:**	**Compound found in blank**
D	**:**	**Results are from a dilution of the sample**
U	**:**	**Compound searched for but not detected**
E	**:**	**Compound exceeds calibration limit**
PQL	**:**	**Practical Quantitation Limit**
NLE	**:**	**No limit established**
RT	**:**	**Retention time**

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004942.D**	Sample Name	**MB**
Operator	**Skelton**	Field ID	**MB 020901**
Date Aquired	**9-Feb-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/13/01 2:06 PM

D:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MB 020901**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 707-716 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: MB

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004942.D

Level: (low/med) LOW Date Received: 2/9/01

% Moisture: not dec. Date Analyzed: 2/9/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004987.D**	Sample Name	**MB**
Operator	**Skelton**	Field ID	**MB 021501**
Date Aquired	**15-Feb-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MB 021501**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 707-716 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MB

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004987.D

Level: (low/med) LOW Date Received: 2/9/01

% Moisture: not dec. _____ Date Analyzed: 2/15/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC005021.D	Sample Name	MB
Operator	Skelton	Field ID	MB 022101
Date Aquired	21-Feb-01	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/13/01 2:18 PM

D:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MB 022101**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 707-716 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MB

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC005021.D

Level: (low/med) LOW Date Received: 2/9/01

% Moisture: not dec. _____ Date Analyzed: 2/21/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004967.D**	Sample Name	**707**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Aquired	**10-Feb-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/13/01 2:06 PM

D:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 707-716 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 707

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004967.D

Level: (low/med) LOW Date Received: 2/9/01

% Moisture: not dec. Date Analyzed: 2/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC004968.D**	Sample Name	**708**
Operator	**Skelton**	Field ID	**Field Blank**
Date Aquired	**10-Feb-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 707-716 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 708

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004968.D

Level: (low/med) LOW Date Received: 2/9/01

% Moisture: not dec. _____ Date Analyzed: 2/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC004969.D	Sample Name	709
Operator	Skelton	Field ID	Dupe
Date Aquired	10-Feb-01	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/13/01 2:06 PM

D:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 707-716 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 709

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004969.D

Level: (low/med) LOW Date Received: 2/9/01

% Moisture: not dec. _____ Date Analyzed: 2/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC004970.D	Sample Name	710
Operator	Skelton	Field ID	2567MW01
Date Aquired	10-Feb-01	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	9.67	17731406	2096.40 ug/L	nle	8.52 ug/L	E
1634044	Methyl-tert-Butyl ether	11.86	1407842	4.83 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/13/01 2:06 PM

D:\HPCHEM\Custrpt\Volatile\624fy00.crt

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC005023.D**	Sample Name	**710**
Operator	**Skelton**	Field ID	**2567MW01**
Date Aquired	**21-Feb-01**	Multiplier	**20**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	37.00 ug/L	
107131	Acrylonitrile			not detected	50	55.60 ug/L	
75650	tert-Butyl alcohol	9.72	345329	1488.05 ug/L	nle	170.40 ug/L	D
1634044	Methyl-tert-Butyl ether			not detected	70	3.20 ug/L	
108203	Di-isopropyl ether			not detected	nle	5.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	33.60 ug/L	
74-87-3	Chloromethane			not detected	30	23.20 ug/L	
75-01-4	Vinyl Chloride			not detected	5	21.20 ug/L	
74-83-9	Bromomethane			not detected	10	22.00 ug/L	
75-00-3	Chloroethane			not detected	nle	20.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	10.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	4.80 ug/L	
67-64-1	Acetone			not detected	700	27.20 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	9.20 ug/L	
75-09-2	Methylene Chloride			not detected	2	4.80 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	3.20 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	2.40 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	15.60 ug/L	
78-93-3	2-Butanone			not detected	300	12.40 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	3.40 ug/L	
67-66-3	Chloroform			not detected	6	6.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	4.60 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	9.40 ug/L	
71-43-2	Benzene			not detected	1	4.60 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	3.60 ug/L	
79-01-6	Trichloroethene			not detected	1	4.60 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	8.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	11.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	13.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	13.80 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	11.80 ug/L	
108-88-3	Toluene			not detected	1000	7.40 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	17.40 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	9.60 ug/L	
127-18-4	Tetrachloroethene			not detected	1	6.40 ug/L	
591-78-6	2-Hexanone			not detected	nle	14.20 ug/L	
126-48-1	Dibromochloromethane			not detected	10	17.20 ug/L	
108-90-7	Chlorobenzene			not detected	4	7.80 ug/L	
100-41-4	Ethylbenzene			not detected	700	13.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	22.80 ug/L	
1330-20-7	o-Xylene			not detected	nle	12.40 ug/L	
100-42-5	Styrene			not detected	100	11.20 ug/L	
75-25-2	Bromoform			not detected	4	14.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	9.40 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	11.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	11.40 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	12.80 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/13/01 2:18 PM

D:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 707-716 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 710

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004970.D

Level: (low/med) LOW Date Received: 2/9/01

% Moisture: not dec. _____ Date Analyzed: 2/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC004971.D	Sample Name	711
Operator	Skelton	Field ID	2567MW02
Date Aquired	10-Feb-01	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 707-716 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 711

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004971.D

Level: (low/med) LOW Date Received: 2/9/01

% Moisture: not dec. Date Analyzed: 2/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC004972.D	Sample Name	712
Operator	Skelton	Field ID	2567MW03
Date Aquired	10-Feb-01	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.87	541683	1.96 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 707-716 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 712

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004972.D

Level: (low/med) LOW Date Received: 2/9/01

% Moisture: not dec. _____ Date Analyzed: 2/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC004989.D	Sample Name	713
Operator	Skelton	Field ID	2567MW04
Date Aquired	15-Feb-01	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 707-716 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 713

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004989.D

Level: (low/med) LOW Date Received: 2/9/01

% Moisture: not dec. _____ Date Analyzed: 2/15/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC004990.D	Sample Name	714
Operator	Skelton	Field ID	2567MW05
Date Aquired	15-Feb-01	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW05**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 707-716 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 714

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004990.D

Level: (low/med) LOW Date Received: 2/9/01

% Moisture: not dec. _____ Date Analyzed: 2/15/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC004991.D	Sample Name	715
Operator	Skelton	Field ID	2567MW06
Date Aquired	15-Feb-01	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

3/13/01 2:17 PM

D:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW06**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 707-716 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 715

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004991.D

Level: (low/med) LOW Date Received: 2/9/01

% Moisture: not dec. _____ Date Analyzed: 2/15/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC004992.D	Sample Name	716
Operator	Skelton	Field ID	2567MW07
Date Aquired	15-Feb-01	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW07**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 707-716 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 716

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC004992.D

Level: (low/med) LOW Date Received: 2/9/01

% Moisture: not dec. _____ Date Analyzed: 2/15/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 2/12/01
Analysis Completed: 2/12/01

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 708 - 716
Sample Received: 02/09/01
Analysis Start: 02/12/01
Analysis Completed: 02/12/01

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
708	Field Blank	ND	10	0.8
709	Dupe	ND	10	0.8
710	2567MW01	ND	10	0.8
711	2567MW02	ND	10	0.8
712	2567MW03	ND	10	0.8
713	2567MW04	ND	10	0.8
714	2567MW05	ND	10	0.8
715	2567MW06	ND	10	0.8
716	2567MW07	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TETRA-CHLORO-ETHENE	TOLUENE	Depth to Water	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet	-
NJDEP Criteria:	-	10	2	1	NLE	NLE	70	1	1000	-	-
12/10/1991	ENV PRO	4	240	2400	42	4400	2200	ND	ND	-	-
10/26/1992	ENV PRO	ND	420	2800	302	5400	1200	51	73	-	-
10/26/1992D	ENV PRO	ND	130	3200	57	7000	1500	ND	ND	-	-
04/21/1993	21st CEN	70	16	520	ND	470	890	ND	ND	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	BNA Only
02/03/1994	21st CEN	ND	26	21	41	28	650	ND	66	-	-
03/31/1994	21st CEN	ND	ND	ND	ND	22	10	ND	ND	-	-
06/14/1994	21st CEN	ND	ND	ND	ND	120	88	ND	ND	-	-
09/15/1994	21st CEN	ND	ND	ND	ND	600	56	ND	ND	-	-
05/25/1995	EMSL	ND	1.5	ND	ND	930	110	ND	0.7	-	-
08/15/1995	EMSL	3.3	1.3	ND	ND	930	29	ND	ND	-	-
11/21/1995	EMSL	ND	36	ND	ND	860	80	ND	ND	-	-
02/20/1996	EMSL	4	2.1	ND	ND	780	100	ND	ND	-	-
06/13/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	-	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
04/11/1997	FMETL	2.5	ND	ND	ND	ND	ND	ND	ND	3.80	V,Pb
08/28/1997	FMETL	1.4	ND	39.4	72.7	ND	240	ND	1.3	4.80	V,Pb
12/02/1997	FMETL	7.0	ND	ND	ND	357	20.3	ND	ND	3.90	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	560	37	ND	ND	3.51	V,S,P,M
06/01/1998	FMETL	0.5	ND	ND	ND	95.63	24.23	ND	ND	4.06	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	283	10.02	ND	ND	5.21	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	143.26	3.43	ND	ND	4.90	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	675	26.15	ND	ND	3.75	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	605.1	9.16	ND	ND	4.20	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	155.56	3.33	ND	ND	5.48	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	497.3	4.8	ND	ND	4.03	V,Pb
02/14/2000	FMETL	1.31	ND	ND	ND	992	8.2	ND	ND	3.31	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	458.88	5.24	ND	ND	4.04	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	218.42	1.20	ND	ND	3.87	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	15.04	ND	ND	4.24	V,Pb
11/01/2000D	FMETL	ND	ND	ND	ND	ND	15.33	ND	ND	4.24	V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	1488.05	4.83	ND	ND	3.30	V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 02/09/2001

NOTES:

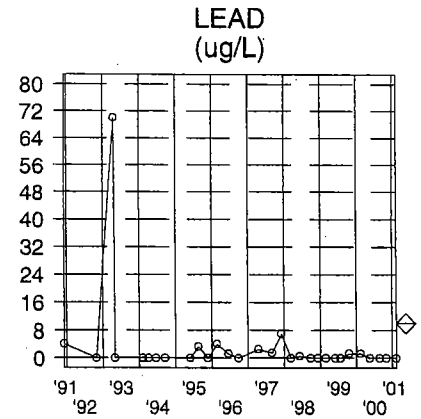
Page 1 of 1.

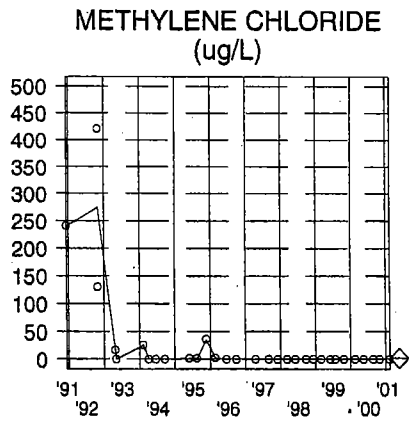
FORT MONMOUTH

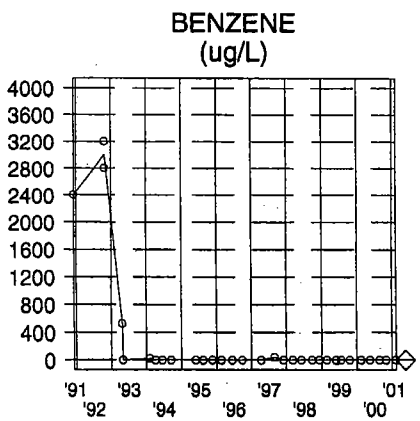
GW MONITORING
Bldg. 2567
Table / Graph A

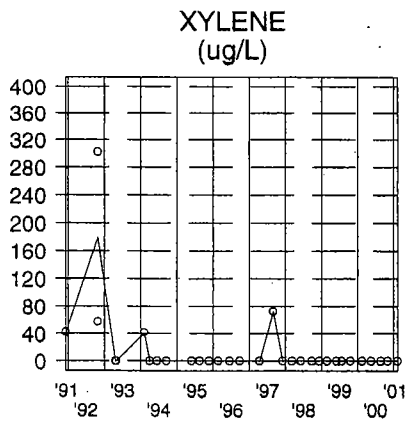
Source 1 of 7

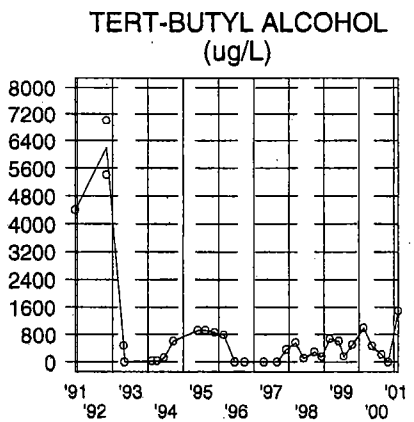
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

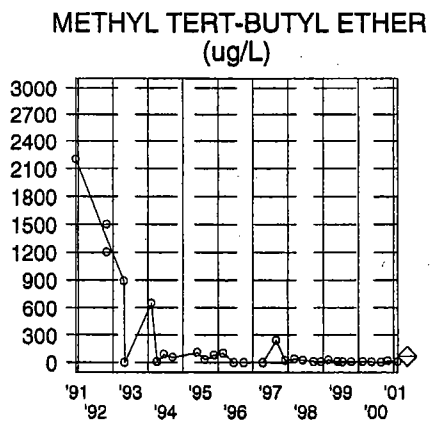


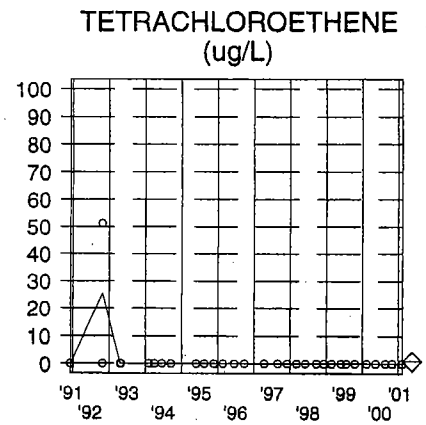


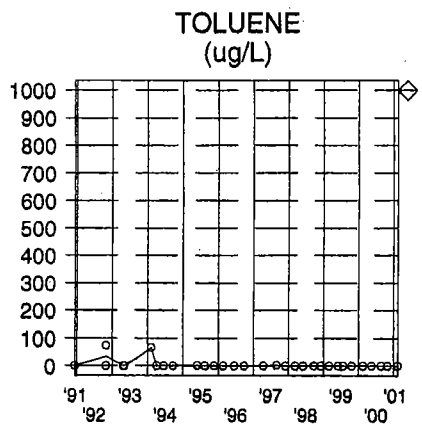


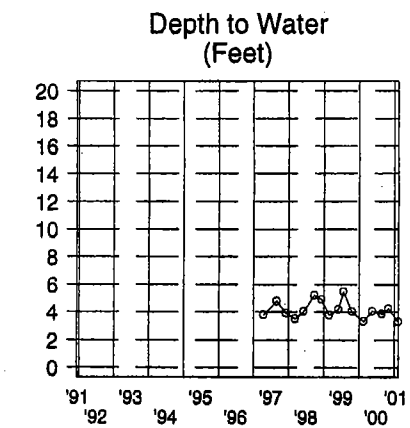












SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 02/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-15-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	Depth to Water	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet	-
NJDEP Criteria:	-	10	2	1	NLE	70	1000	700	700	-	-
12/10/1991	ENV PRO	ND	7	3	ND	ND	ND	ND	ND	-	-
10/26/1992	ENV PRO	11	23	ND	3	ND	ND	ND	ND	-	-
04/21/1993	ENV PRO	ND	ND	ND	2.0	ND	ND	ND	2.5	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	BNA Only
02/03/1994	21st CEN	260	4.0	19	43	7.0	55	7.4	ND	-	-
03/31/1994	21st CEN	ND	17	ND	2.5	11	ND	ND	140	-	-
06/14/1994	21st CEN	ND	ND	ND	3.0	11	ND	1.1	ND	-	-
09/15/1994	21st CEN	ND	ND	ND	5.5	4.1	1.8	1.2	ND	-	-
05/25/1995	EMSL	ND	0.9	ND	6.5	3.1	ND	0.8	ND	-	-
08/15/1995	EMSL	5.6	1.3	ND	5.3	2.5	ND	ND	ND	-	-
11/21/1995	EMSL	ND	0.6	ND	3.6	1.6	ND	ND	ND	-	-
02/20/1996	EMSL	ND	2.0	ND	4.2	2	ND	ND	ND	-	-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
09/27/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	-	-
04/11/1997	FMETL	10.7	ND	ND	ND	ND	ND	ND	ND	3.40	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	4.30	V,Pb
12/02/1997	FMETL	20	ND	ND	ND	ND	ND	ND	ND	3.45	V,S,P,M
03/04/1998	FMETL	8.0	ND	ND	ND	ND	ND	ND	ND	2.92	V,S,P,M
06/01/1998	FMETL	1.4	ND	ND	ND	ND	ND	ND	ND	3.59	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	4.73	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	3.42	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	3.38	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	3.83	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	5.03	V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	3.65	V,Pb
02/14/2000	FMETL	1.49	ND	ND	ND	ND	ND	ND	ND	3.00	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	3.77	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	5.99	3.51	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	4.15	V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	2.75	V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 02/09/2001

NOTES:

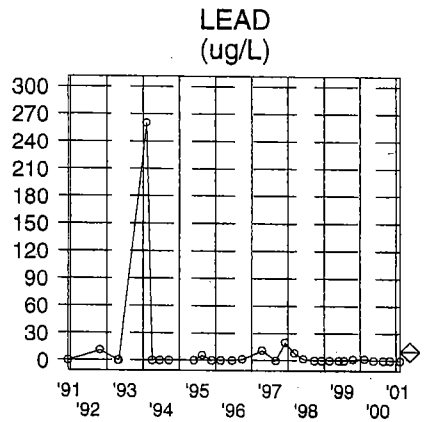
Page 1 of 1.

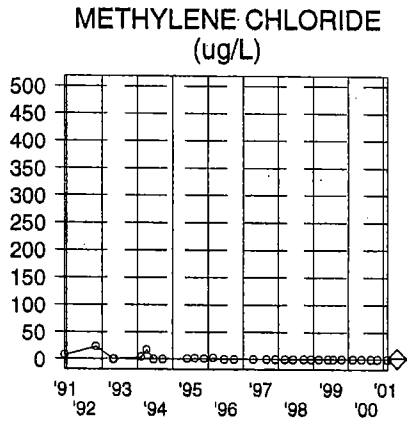
FORT MONMOUTH

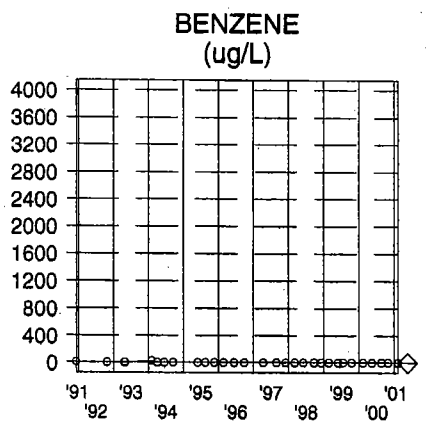
GW MONITORING
Bldg. 2567
Table / Graph A

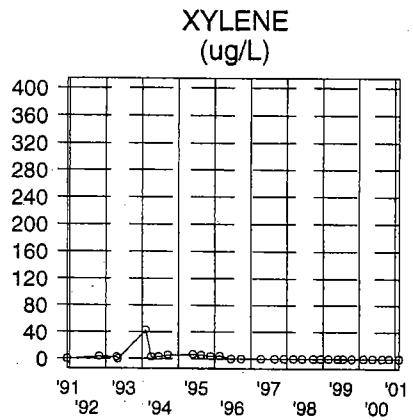
Source 2 of 7

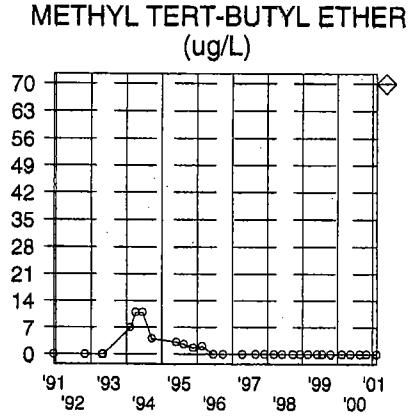
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

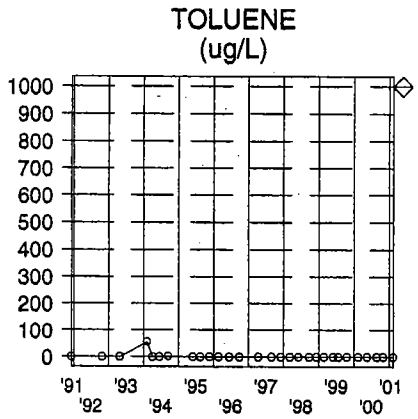


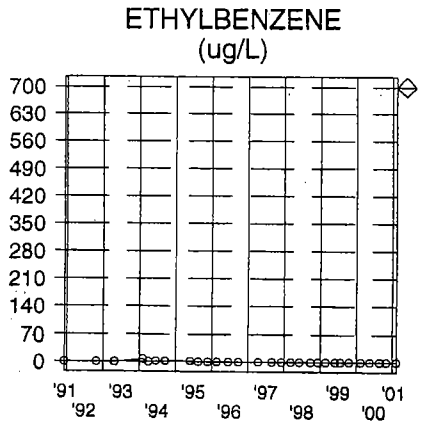


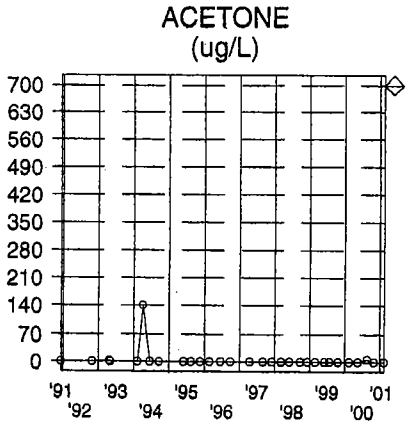


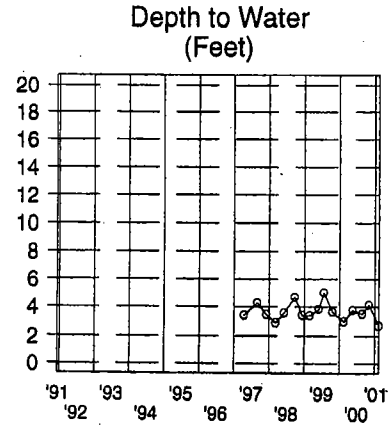












SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 02/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-15-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TOLUENE	ETHYL-BENZENE	Depth to Water	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet	-
NJDEP Criteria:	-	10	2	1	NLE	NLE	70	1000	700	-	-
12/10/1991	ENV PRO	ND	240	110	200	ND	69	ND	ND	-	-
10/26/1992	ENV PRO	5	24	ND	3	ND	ND	ND	ND	-	-
04/21/1993	ENV PRO	60	ND	180	74.2	ND	27	15	ND	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	BNA Only
02/03/1994	21st CEN	41	4.4	19	65	ND	9.1	43	7.0	-	-
03/31/1994	21st CEN	25	ND	ND	ND	ND	ND	ND	ND	-	-
06/14/1994	21st CEN	3	ND	15	3.4	ND	100	ND	5.4	-	-
09/15/1994	21st CEN	ND	ND	ND	1.4	ND	61	ND	ND	-	-
05/25/1995	EMSL	2.7	21	94	190	ND	400	3.8	6.3	-	-
08/15/1995	EMSL	ND	25	89	360	ND	670	ND	8.4	-	-
11/21/1995	EMSL	ND	18	35	91	46	360	ND	ND	-	-
02/20/1996	EMSL	6	ND	40	70	43	250	1	4.5	-	-
06/13/1996	FMETL	0.7	ND	ND	ND	ND	ND	ND	ND	-	-
09/27/1996	FMETL	6.2	ND	ND	ND	ND	ND	ND	ND	-	-
04/11/1997	FMETL	1.8	ND	ND	ND	ND	ND	ND	ND	3.15	V,Pb
08/28/1997	FMETL	ND	25	ND	ND	940	62	ND	ND	4.00	V,Pb
12/02/1997	FMETL	10	ND	4.31	ND	ND	188	ND	ND	3.10	V,S,P,M
03/04/1998	FMETL	ND	ND	19	8.6	ND	102	ND	ND	2.48	V,S,P,M
06/19/1998	FMETL	ND	ND	4.68	ND	27.52	81.82	ND	ND	3.99	V,Pb
09/25/1998	FMETL	ND	ND	5.96	3.62	ND	27.27	ND	ND	4.56	V,Pb
12/16/1998	FMETL	ND	ND	15.45	3.67	19.38	20.54	ND	ND	4.25	V,Pb
02/24/1999	FMETL	1.0	ND	1.03	ND	ND	3.3	ND	ND	3.16	V,Pb
05/29/1999	FMETL	ND	ND	1.70	1.29	ND	26.34	ND	1.04	3.55	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	8.98	ND	ND	4.85	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	ND	13.08	ND	ND	3.93	V,Pb
02/14/2000	FMETL	1.22	ND	ND	ND	ND	3.78	ND	ND	3.42	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	9.35	ND	ND	3.40	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	5.36	ND	ND	3.17	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	20.24	ND	ND	3.56	V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	1.96	ND	ND	2.50	V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 02/09/2001

NOTES:

Page 1 of 1.

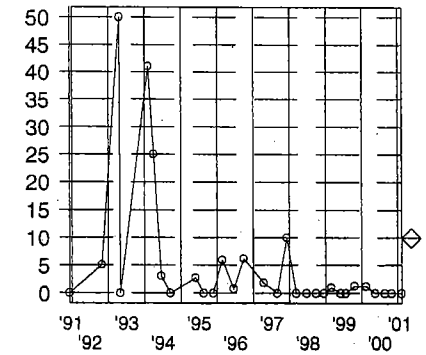
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

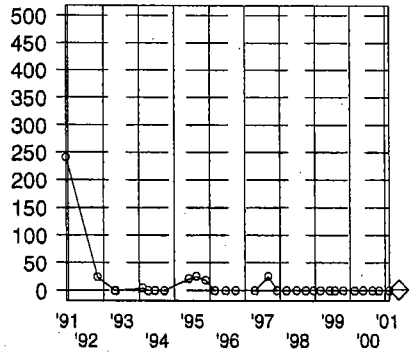
Source 3 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

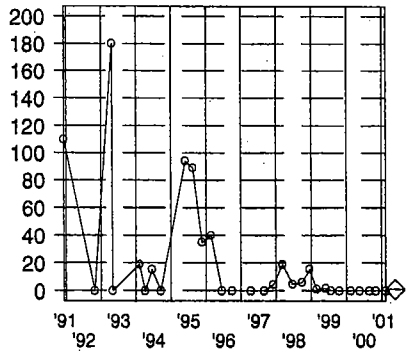
LEAD
(ug/L)



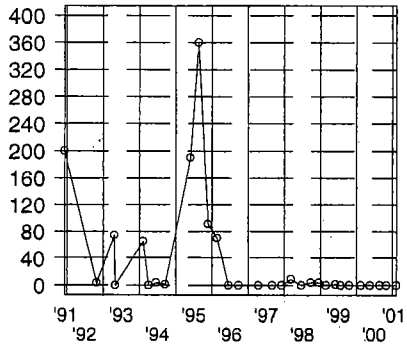
METHYLENE CHLORIDE
(ug/L)



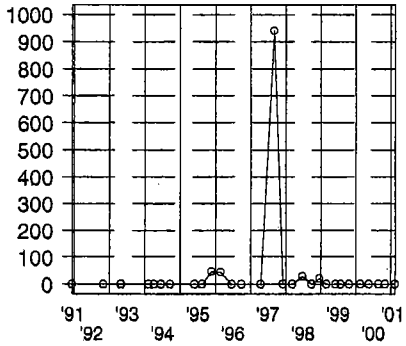
BENZENE
(ug/L)



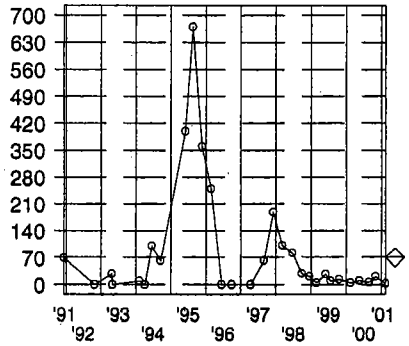
XYLENE
(ug/L)



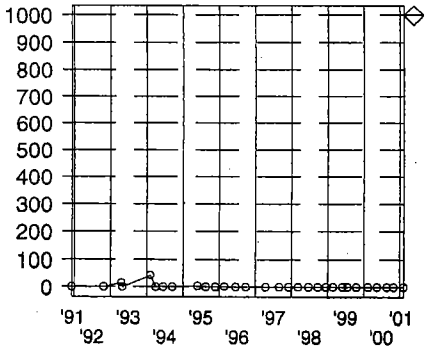
TERT-BUTYL ALCOHOL
(ug/L)



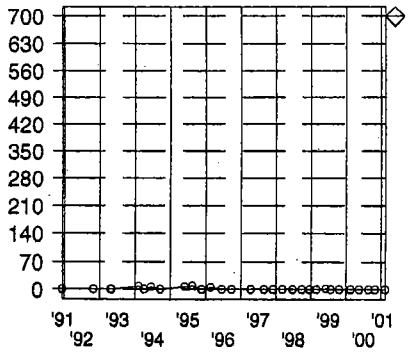
METHYL TERT-BUTYL ETHER
(ug/L)



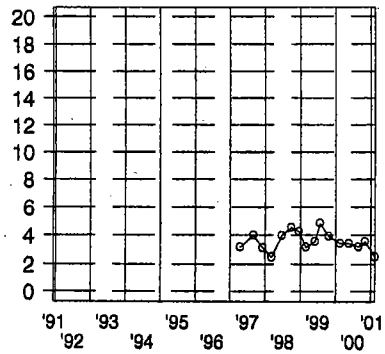
TOLUENE
(ug/L)



ETHYLBENZENE
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 02/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-15-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	Depth to Water		NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet		-
NJDEP Criteria:	-	10	2	1	NLE	70	1000	700	-		-
12/10/1991	EMSL	5	ND	ND	ND	ND	ND	ND	-		-
10/26/1992	ENV PRO	ND	27	ND	ND	ND	ND	ND	-		-
04/21/1993	ENV PRO	ND	ND	ND	ND	ND	ND	ND	-		-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	-		BNA Only
02/03/1994	21st CEN	ND	5.0	14	60	ND	56	8.9	-		-
03/31/1994	21st CEN	ND	2.3	ND	ND	1.3	ND	ND	-		-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	-		-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	ND	ND	-		-
05/25/1995	EMSL	ND	1.0	ND	ND	ND	ND	ND	-		-
08/15/1995	EMSL	2.6	1.3	ND	ND	ND	ND	ND	-		-
11/21/1995	EMSL	ND	0.6	ND	ND	ND	ND	ND	-		-
02/20/1996	EMSL	ND	1.2	ND	ND	ND	ND	ND	-		-
06/13/1996	FMETL	1.8	ND	ND	ND	-	ND	ND	-		-
09/27/1996	FMETL	ND	ND	ND	ND	-	ND	ND	-		-
04/11/1997	FMETL	2.3	ND	ND	ND	-	ND	ND	2.55		V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	-	ND	ND	3.20		V,Pb
12/02/1997	FMETL	9.0	ND	ND	ND	-	ND	ND	2.45		V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	-	ND	ND	2.11		V,S,P,M
06/19/1998	FMETL	ND	ND	ND	ND	-	ND	ND	2.33		V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	-	ND	ND	3.55		V,Pb
12/12/1998	FMETL	ND	ND	ND	ND	-	ND	ND	3.11		V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	-	ND	ND	2.44		V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	2.76		V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	3.98		V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	ND	ND	2.37		V,Pb
02/14/2000	FMETL	1.4	ND	ND	ND	ND	ND	ND	1.69		V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	2.65		V,Pb
05/15/2000D	FMETL	ND	ND	ND	ND	ND	ND	ND	2.65		V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	2.49		V,Pb
08/22/2000D	FMETL	ND	ND	ND	ND	ND	ND	ND	2.49		V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	2.91		V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	ND	ND	1.99		V,Pb
02/09/2001D	FMETL	ND	ND	ND	ND	ND	ND	ND	1.99		V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 02/09/2001

NOTES:

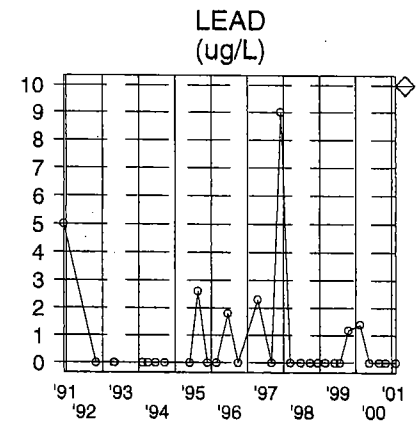
Page 1 of 1.

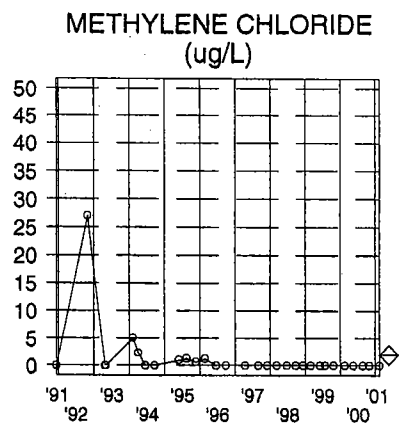
FORT MONMOUTH

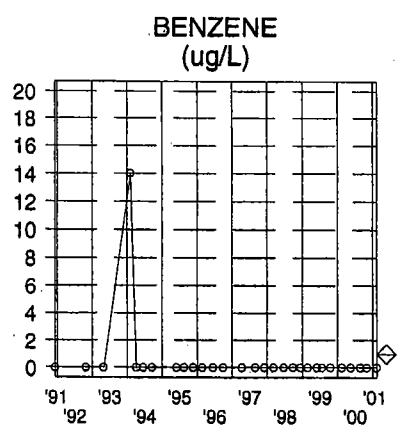
GW MONITORING
Bldg. 2567
Table / Graph A

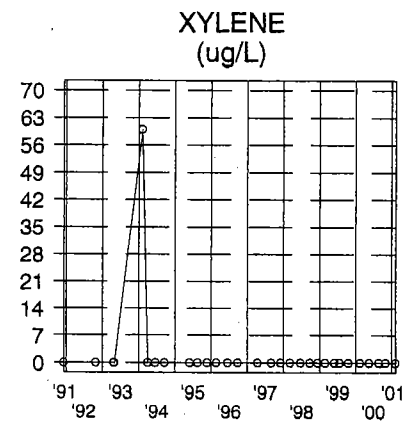
Source 4 of 7

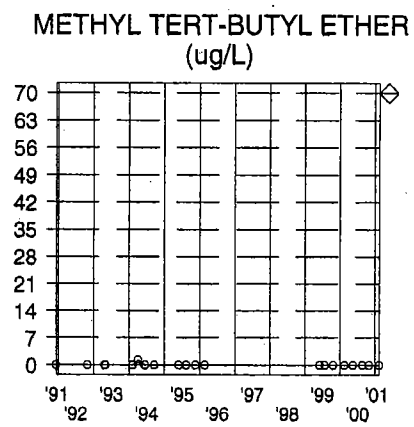
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

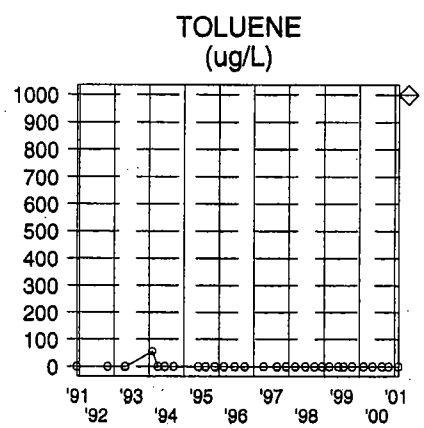


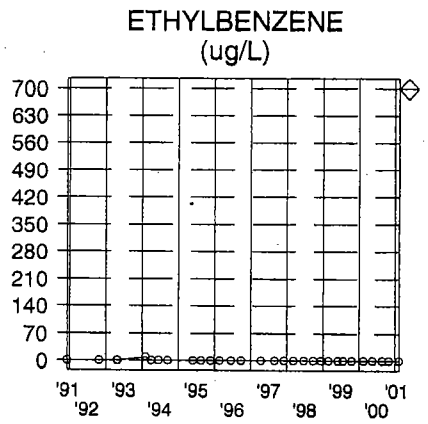


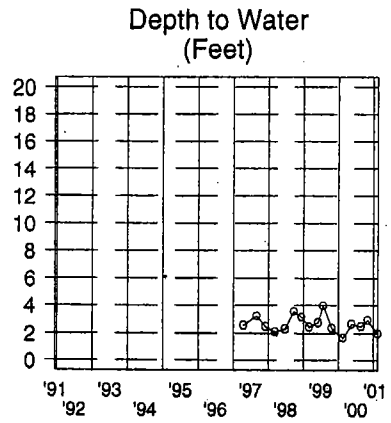












SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 02/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-15-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	Depth to Water							NOTES
Units:	-	ug/L	ug/L	Feet							-
NJDEP Criteria:	-	10	2	-							-
05/25/1995	EMSL	4.0	1.2	-							-
08/15/1995	EMSL	ND	1.2	-							-
11/21/1995	EMSL	ND	ND	-							-
02/20/1996	EMSL	ND	0.8	-							-
09/27/1996	FMETL	ND	ND	-							-
04/11/1997	FMETL	2.7	ND	7.20							V,Pb
08/28/1997	FMETL	ND	ND	7.50							V,Pb
12/02/1997	FMETL	7.0	ND	7.20							V,S,P,M
03/04/1998	FMETL	ND	ND	7.30							V,S,P,M
06/01/1998	FMETL	ND	ND	7.55							V,Pb
09/25/1998	FMETL	ND	ND	7.59							V,Pb
12/16/1998	FMETL	ND	ND	7.34							V,Pb
02/24/1999	FMETL	ND	ND	8.16							V,Pb
06/08/1999	FMETL	ND	ND	7.33							V,Pb
07/21/1999	FMETL	ND	ND	7.87							V,Pb
10/21/1999	FMETL	4.4	ND	8.57							V,Pb
02/14/2000	FMETL	1.21	ND	5.75							V,Pb
05/15/2000	FMETL	ND	ND	6.92							V,Pb
08/22/2000	FMETL	1.6	ND	6.73							V,Pb
11/01/2000	FMETL	2.4	ND	7.16							V,Pb
02/09/2001	FMETL	ND	ND	5.26							V,Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 02/09/2001

NOTES:

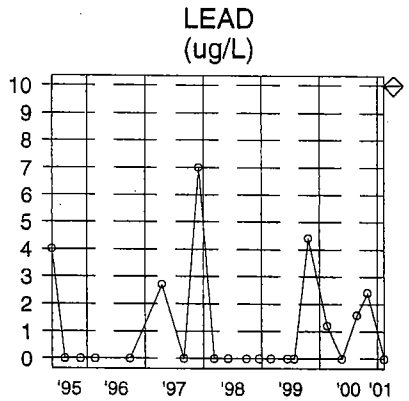
Page 1 of 1.

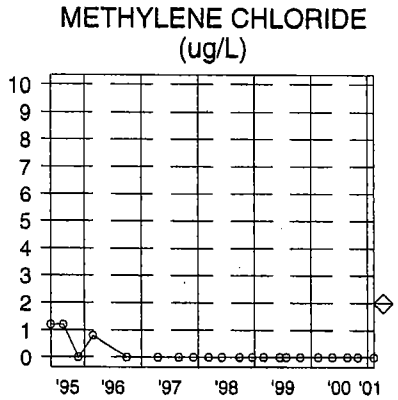
FORT MONMOUTH

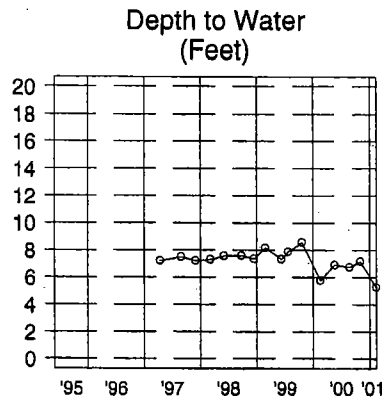
GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 02/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-15-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Depth to Water									NOTES
Units:	-	Feet									-
NJDEP Criteria:	-	-									-
08/22/2000	FMETL	7.06									V,Pb
11/01/2000	FMETL	7.26									V,Pb
02/09/2001	FMETL	6.44									V,Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 02/09/2001

NOTES:

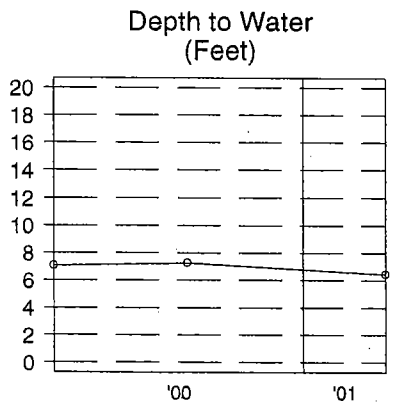
Page 1 of 1

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 02/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-15-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Depth to Water									NOTES
Units:	-	Feet									-
NJDEP Criteria:	-	-									-
08/22/2000	FMETL	6.65									V,Pb
11/02/2000	FMETL	6.80									V,Pb
02/09/2001	FMETL	6.23									V,Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 02/09/2001

NOTES:

Page 1 of 1

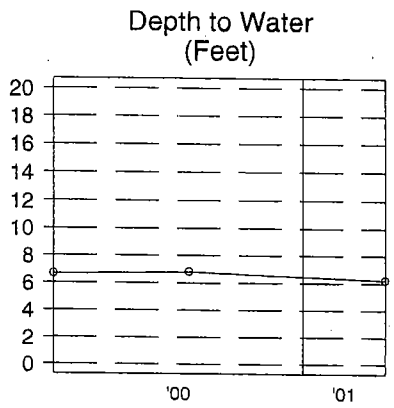
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-15-2001 x:\mtech46\fm\2567\gw\2567.wsf



SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 02/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-15-2001 x:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567 #17

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
16107.04	2567MW01	29-26925	05/08/01
16107.05	2567MW02	29-26926	05/08/01
16107.06	2567MW03	29-26947	05/08/01
16107.07	2567MW04	29-26948	05/08/01
16107.08	2567MW05	29-31783	05/08/01
16107.09	2567MW06	29-42585	05/08/01
16107.10	2567MW07	29-42586	05/08/01

NJDEP Laboratory Certification # 13461

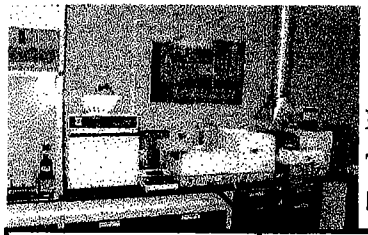
6-11-01

Daniel Wright/Date
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. FALLON
Phone #: 2162223
(X)DERA ( )OMA ( )Other:_____

Project No:
Location: 2567 wells
2nd Qtr '01

Samplers Name / Company: Corey McCormack, TKS

Comments: HCL/HNO_3/4°c

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	VOC+15	Pb						Hrs Read	Remarks / Preservation Method
Nellot .01	Trip	5/8/01	0739	AQ	2	✓							—	
.02	Field Blank		0930		3	✓	✓						—	
.03	Dupe		—		3	✓	✓						—	
.04	2567 MW01		1115			✓	✓						0.0	29-26925
.05	2567 MW02		0948			✓	✓						0.0	29-26926
.06	2567MW03		1119			✓	✓						0.0	29-26947
.07	2567 MW04		0952			✓	✓						0.0	29-26948
.08	2567 MW05		1422			✓	✓						0.0	29-31783
.09	2567 MW06		1255			✓	✓						0.0	29-42585
.10	2567 MW07		1300			✓	✓						0.0	29-45586

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	5/8/01 1510	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks: Tide: N/A

print legibly

Coc.xls4/18/01

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/08/01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.15 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.95 ft
(8.95) X .65 X 3 = 17.45
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.1 ppm

PURGE START TIME: 10:00
pH 6.93 su TEMP 15.1 °C
DISSOLVED O2 5.87 ppm SPECIFIC CONDUCTIVITY 663 us/cm

PURGE END TIME: 11:14
pH 6.99 su TEMP 14.3 °C
DISSOLVED O2 5.20 ppm SPECIFIC CONDUCTIVITY 665 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.00 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 11:15
pH 6.99 su TEMP 14.3 °C
DISSOLVED O2 5.17 ppm SPECIFIC CONDUCTIVITY 664 us/cm

SAMPLE END TIME: 11:18

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/08/01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.95 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.25 ft
(8.25) X .65 X 3 = 16.08
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:38
pH 6.79 su TEMP 15.8 °C
DISSOLVED O2 5.80 ppm SPECIFIC CONDUCTIVITY 298 us/cm

PURGE END TIME: 09:47
pH 6.78 su TEMP 14.5 °C
DISSOLVED O2 5.17 ppm SPECIFIC CONDUCTIVITY 297 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.16 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 09:48
pH 6.76 su TEMP 14.4 °C
DISSOLVED O2 5.14 ppm SPECIFIC CONDUCTIVITY 297 us/cm

SAMPLE END TIME: 09:51

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/08/01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.40 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.10 ft
(9.10) X .65 X 3 = 17.17
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 10.0 ppm

PURGE START TIME: 10:04
pH 6.87 su TEMP 15.9 °C
DISSOLVED O2 5.77 ppm SPECIFIC CONDUCTIVITY 767 us/cm

PURGE END TIME: 11:18
pH 6.80 su TEMP 15.2 °C
DISSOLVED O2 5.07 ppm SPECIFIC CONDUCTIVITY 767 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.64 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 11:19
pH 6.81 su TEMP 15.1 °C
DISSOLVED O2 5.05 ppm SPECIFIC CONDUCTIVITY 766 us/cm

SAMPLE END TIME: 11:21

COMMENTS: Strong fuel odor.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/08/01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.68 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.98 ft
(8.98) X .65 X 3 = 17.51
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:30
pH 6.41 su TEMP 13.5 °C
DISSOLVED O2 5.93 ppm SPECIFIC CONDUCTIVITY 336 us/cm

PURGE END TIME: 09:48
pH 6.38 su TEMP 12.8 °C
DISSOLVED O2 5.21 ppm SPECIFIC CONDUCTIVITY 336 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.15 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 09:52
pH 6.38 su TEMP 12.8 °C
DISSOLVED O2 5.20 ppm SPECIFIC CONDUCTIVITY 336 us/cm

SAMPLE END TIME: 09:54

COMMENTS: DUP. Here. Slightly cloudy.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/08/01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.47 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.28 ft
(7.28) X .65 X 3 = 14.19
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 13:20
pH 6.57 su
DISSOLVED O2 5.81 ppm
TEMP 15.0 °C
SPECIFIC CONDUCTIVITY 437 us/cm

PURGE END TIME: 14:21
pH 6.52 su
DISSOLVED O2 5.20 ppm
TEMP 14.4 °C
SPECIFIC CONDUCTIVITY 441 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.98 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 14:22
pH 6.52 su
DISSOLVED O2 5.18 ppm
TEMP 14.4 °C
SPECIFIC CONDUCTIVITY 441 us/cm

SAMPLE END TIME: 14:24

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/08/01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.42 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.32 ft
(8.32) X .65 X 3 = 16.22
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:45
pH 5.02 su
DISSOLVED O2 5.99 ppm
TEMP 12.5 °C
SPECIFIC CONDUCTIVITY 226 us/cm

PURGE END TIME: 12:54
pH 4.97 su
DISSOLVED O2 5.24 ppm
TEMP 11.2 °C
SPECIFIC CONDUCTIVITY 226 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.19 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 12:55
pH 4.98 su
DISSOLVED O2 5.23 ppm
TEMP 11.2 °C
SPECIFIC CONDUCTIVITY 226 us/cm

SAMPLE END TIME: 12:59

COMMENTS: Low pH.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/08/01
WEATHER: Sunny, cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.02 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.48 ft
(9.48) X .65 X 3 = 18.48
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:40
pH 6.41 su
TEMP 12.8 °C
DISSOLVED O2 5.97 ppm
SPECIFIC CONDUCTIVITY 430 us/cm

PURGE END TIME: 12:58
pH 6.36 su
TEMP 12.1 °C
DISSOLVED O2 5.23 ppm
SPECIFIC CONDUCTIVITY 430 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.90 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 13:00
pH 6.37 su
TEMP 12.1 °C
DISSOLVED O2 5.22 ppm
SPECIFIC CONDUCTIVITY 430 us/cm

SAMPLE END TIME: 13:04

COMMENTS: Slightly cloudy.

VOLATILES

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	:	**Method Detection Limit**
J	:	**Compound identified below detection limit**
B	:	**Compound found in blank**
D	:	**Results are from a dilution of the sample**
U	:	**Compound searched for but not detected**
E	:	**Compound exceeds calibration limit**
PQL	:	**Practical Quantitation Limit**
NLE	:	**No limit established**
RT	:	**Retention time**

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC005722.D**	Sample Name	**MB 1806s**
Operator	**Skelton**	Field ID	**MB 1806s**
Date Aquired	**16-May-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MB 1806**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 16107 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: MB

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC005722.D

Level: (low/med) LOW Date Received: 5/8/01

% Moisture: not dec. Date Analyzed: 5/16/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC005723.D**	Sample Name	**1610701**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Aquired	**16-May-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	11.18	123867	1.62 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 16107 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1610701

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC005723.D

Level: (low/med) LOW Date Received: 5/8/01

% Moisture: not dec. Date Analyzed: 5/16/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC005724.D**	Sample Name	**1610702**
Operator	**Skelton**	Field ID	**Field Blank**
Date Aquired	**16-May-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

5/30/01 11:47 AM

D:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 16107 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1610702

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC005724.D

Level: (low/med) LOW Date Received: 5/8/01

% Moisture: not dec. Date Analyzed: 5/16/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC005725.D**	Sample Name	**1610703**
Operator	**Skelton**	Field ID	**Dupe**
Date Aquired	**16-May-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 16107 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1610703

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC005725.D

Level: (low/med) LOW Date Received: 5/8/01

% Moisture: not dec. _____ Date Analyzed: 5/16/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC005726.D**	Sample Name	**1610704**
Operator	**Skelton**	Field ID	**2567MW01**
Date Aquired	**16-May-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	9.68	3859427	764.25 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.85	349416	2.10 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

5/30/01 11:47 AM

D:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 16107 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1610704

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC005726.D

Level: (low/med) LOW Date Received: 5/8/01

% Moisture: not dec. _____ Date Analyzed: 5/16/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC005729.D**	Sample Name	**1610705**
Operator	**Skelton**	Field ID	**2567MW02**
Date Aquired	**16-May-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	8.88	212766	3.31 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone	15.25	123428	2.25 ug/L	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 16107 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1610705

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC005729.D

Level: (low/med) LOW Date Received: 5/8/01

% Moisture: not dec. _____ Date Analyzed: 5/16/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC005730.D**	Sample Name	**1610706**
Operator	**Skelton**	Field ID	**2567MW03**
Date Aquired	**16-May-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.84	2025596	11.95 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 16107 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1610706

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC005730.D

Level: (low/med) LOW Date Received: 5/8/01

% Moisture: not dec. Date Analyzed: 5/16/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 8

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.35	46	JN
2. 000109-66-0	Pentane	7.18	13	JN
3.	unknown	11.53	27	J
4. 000096-37-7	Cyclopentane, methyl-	15.20	44	JN
5.	unknown	17.46	10	J
6. 000098-82-8	Benzene, (1-methylethyl)-	29.63	5	JN
7. 000103-65-1	Benzene, propyl-	30.62	6	JN
8. 000496-11-7	Indane	33.77	12	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC005731.D**	Sample Name	**1610707**
Operator	**Skelton**	Field ID	**2567MW04**
Date Aquired	**16-May-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	8.88	275400	4.54 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone	15.24	148912	2.88 ug/L	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 16107 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1610707

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC005731.D

Level: (low/med) LOW Date Received: 5/8/01

% Moisture: not dec. _____ Date Analyzed: 5/16/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC005732.D**	Sample Name	**1610708**
Operator	**Skelton**	Field ID	**2567MW05**
Date Aquired	**16-May-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	8.87	258207	4.35 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone	15.24	128698	2.54 ug/L	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

5/30/01 11:47 AM

D:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW05**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 16107 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1610708

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC005732.D

Level: (low/med) LOW Date Received: 5/8/01

% Moisture: not dec. _____ Date Analyzed: 5/16/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC005733.D**	Sample Name	**1610709**
Operator	**Skelton**	Field ID	**2567MW06**
Date Aquired	**16-May-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW06**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 16107 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1610709

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC005733.D

Level: (low/med) LOW Date Received: 5/8/01

% Moisture: not dec. _____ Date Analyzed: 5/16/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC005734.D**	Sample Name	**1610710**
Operator	**Skelton**	Field ID	**2567MW07**
Date Aquired	**16-May-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW07**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 16107 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1610710

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC005734.D

Level: (low/med) LOW Date Received: 5/8/01

% Moisture: not dec. _____ Date Analyzed: 5/16/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 16107
Sample Received: 05/08/01
Analysis Start: 07/23/01
Analysis Completed: 07/23/01

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
16107.02	Field Blank	ND	10	0.8
16107.03	Dupe	1.26	10	0.8
16107.04	2567MW01	0.93	10	0.8
16107.05	2567MW02	1.02	10	0.8
16107.06	2567MW03	0.96	10	0.8
16107.07	2567MW04	ND	10	0.8
16107.08	2567MW05	4.53	10	0.8
16107.09	2567MW06	1.48	10	0.8
16107.10	2567MW07	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Daniel K. Wright
Laboratory Director

LTM

	LAB	LEAD	METHY-LENE CHLORIDE	1,2-DI-CHLORO-ETHANE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TOLUENE	ACETONE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	10	2	2	1	NLE	NLE	70	1000	700	-
12/10/1991	ENV PRO	4	240	55	2400	42	4400	2200	ND	ND	-
10/26/1992	ENV PRO	ND	420	ND	2800	302	5400	1200	73	ND	-
10/26/1992D	ENV PRO	ND	130	ND	3200	57	7000	1500	ND	ND	-
04/21/1993	21st CEN	70	16	ND	520	ND	470	890	ND	ND	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/1994	21st CEN	ND	26	ND	21	41	28	650	66	54	-
03/31/1994	21st CEN	ND	ND	ND	ND	ND	22	10	ND	6.9	-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	120	88	ND	ND	-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	600	56	ND	ND	-
05/25/1995	EMSL	ND	1.5	ND	ND	ND	930	110	0.7	ND	-
08/15/1995	EMSL	3.3	1.3	ND	ND	ND	930	29	ND	ND	-
11/21/1995	EMSL	ND	36	ND	ND	ND	860	80	ND	ND	-
02/20/1996	EMSL	4	2.1	ND	ND	ND	780	100	ND	ND	-
06/13/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	2.5	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	1.4	ND	ND	39.4	72.7	ND	240	1.3	ND	V,Pb
12/02/1997	FMETL	7.0	ND	ND	ND	ND	357	20.3	ND	ND	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	ND	560	37	ND	ND	V,S,P,M
06/01/1998	FMETL	0.5	ND	ND	ND	ND	95.63	24.23	ND	ND	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	283	10.02	ND	ND	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	143.26	3.43	ND	ND	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	675	26.15	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	605.1	9.16	ND	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	155.56	3.33	ND	ND	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	ND	497.3	4.8	ND	ND	V,Pb
02/14/2000	FMETL	1.31	ND	ND	ND	ND	992	8.2	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	458.88	5.24	ND	ND	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	218.42	1.20	ND	ND	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	ND	15.04	ND	ND	V,Pb
11/01/2000D	FMETL	ND	ND	ND	ND	ND	ND	15.33	ND	ND	V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	1488.05	4.83	ND	ND	V,Pb
05/08/2001	FMETL	ND	ND	ND	ND	ND	764.25	2.10	ND	ND	V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/08/2001

NOTES:

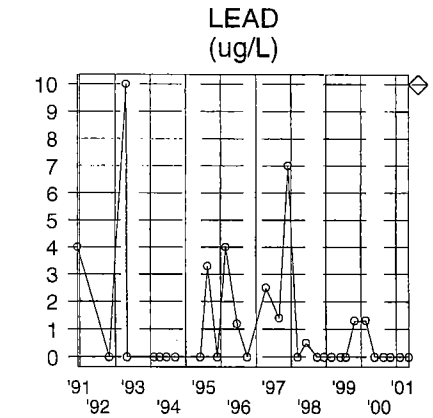
Page 1 of 2.

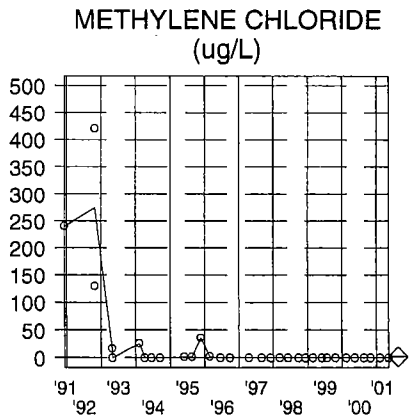
FORT MONMOUTH

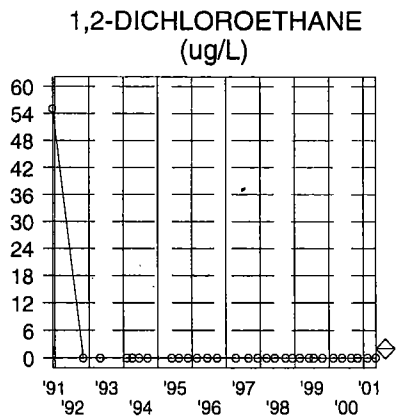
GW MONITORING
Bldg. 2567
Table / Graph A

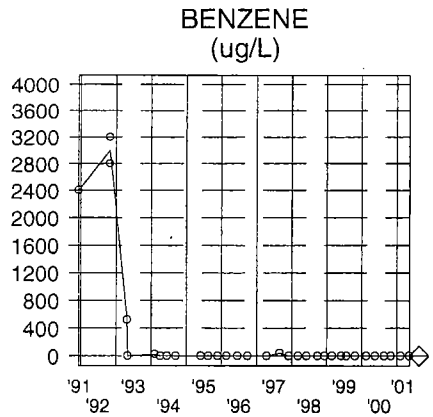
Source 1 of 7

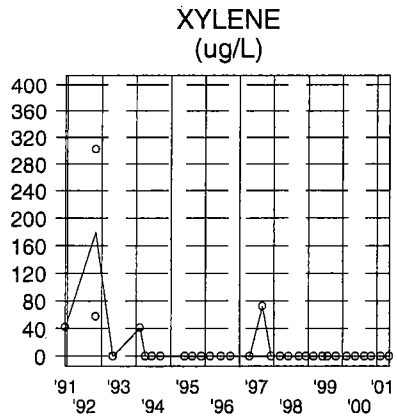
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

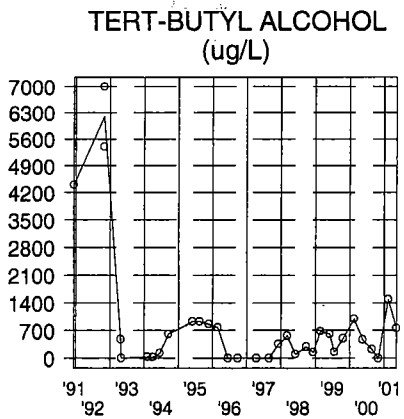


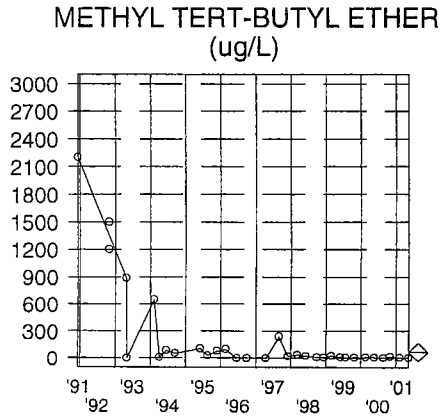


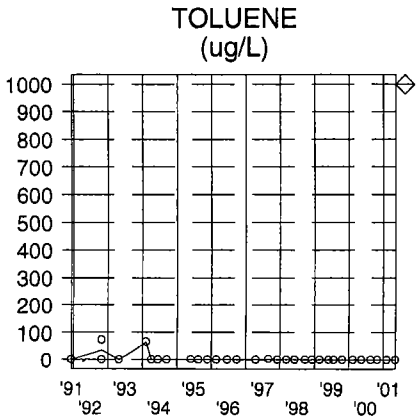


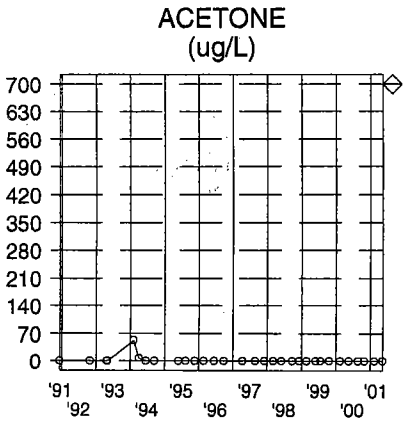












SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-31-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Iron	Manganese	Sodium	Depth to Water						NOTES
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	300	50	50000	-						-
12/10/1991	ENV PRO	-	-	-	-						-
10/26/1992	ENV PRO	-	-	-	-						-
10/26/1992D	ENV PRO	-	-	-	-						-
04/21/1993	21st CEN	-	-	-	-						-
04/28/1993	21st CEN	-	-	-	-						BNA Only
02/03/1994	21st CEN	-	-	-	-						-
03/31/1994	21st CEN	-	-	-	-						-
06/14/1994	21st CEN	-	-	-	-						-
09/15/1994	21st CEN	-	-	-	-						-
05/25/1995	EMSL	-	-	-	-						-
08/15/1995	EMSL	-	-	-	-						-
11/21/1995	EMSL	-	-	-	-						-
02/20/1996	EMSL	-	-	-	-						-
06/13/1996	FMETL	-	-	-	-						-
09/27/1996	FMETL	-	-	-	-						-
04/11/1997	FMETL	-	-	-	3.80						V,Pb
08/28/1997	FMETL	-	-	-	4.80						V,Pb
12/02/1997	FMETL	4110	93	76000	3.90						V,S,P,M
03/04/1998	FMETL	5800	108	48900	3.51						V,S,P,M
06/01/1998	FMETL	-	-	-	4.06						V,Pb
09/24/1998	FMETL	-	-	-	5.21						V,Pb
12/09/1998	FMETL	-	-	-	4.90						V,Pb
02/24/1999	FMETL	-	-	-	3.75						V,Pb
05/29/1999	FMETL	-	-	-	4.20						V,Pb
07/21/1999	FMETL	-	-	-	5.48						V,Pb
10/21/1999	FMETL	-	-	-	4.03						V,Pb
02/14/2000	FMETL	-	-	-	3.31						V,Pb
05/15/2000	FMETL	-	-	-	4.04						V,Pb
08/22/2000	FMETL	-	-	-	3.87						V,Pb
11/01/2000	FMETL	-	-	-	4.24						V,Pb
11/01/2000D	FMETL	-	-	-	4.24						V,Pb
02/09/2001	FMETL	-	-	-	3.30						V,Pb
05/08/2001	FMETL	-	-	-	4.15						V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/08/2001

NOTES:

Page 2 of 2.

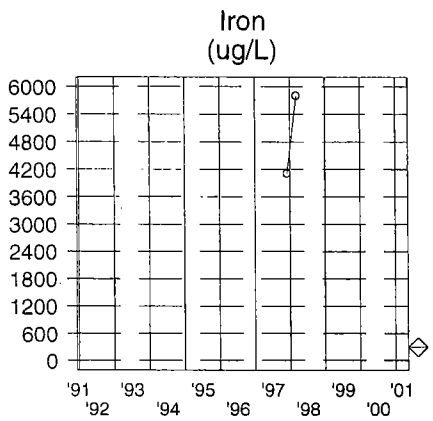
FORT MONMOUTH

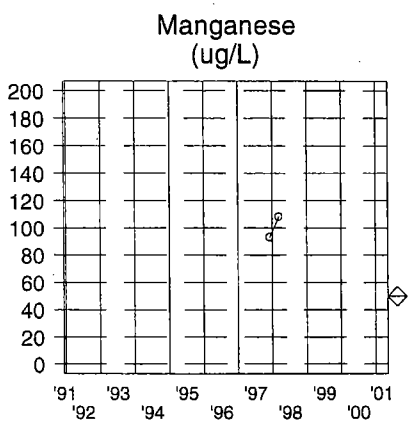
GW MONITORING
Bldg. 2567
Table / Graph A

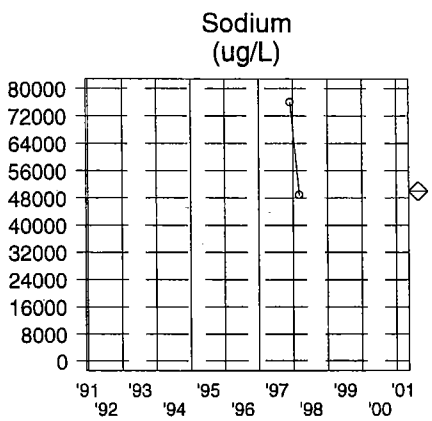
Source 1 of 7

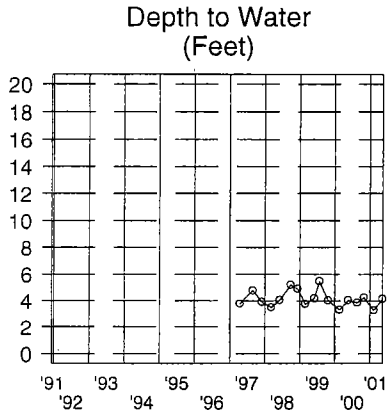
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-31-2001 x:\mtech46\fm\2567\gw\2567.wsf









SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-31-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	NAPTH-ALENE	Iron	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	10	2	NLE	70	1000	700	700	NLE	300	-
12/10/1991	ENV PRO	ND	7	ND	ND	ND	ND	ND	ND	-	-
10/26/1992	ENV PRO	11	23	3	ND	ND	ND	ND	ND	-	-
04/21/1993	ENV PRO	ND	ND	2.0	ND	ND	ND	2.5	ND	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	BNA Only
02/03/1994	21st CEN	260	4.0	43	7.0	55	7.4	ND	ND	-	-
03/31/1994	21st CEN	ND	17	2.5	11	ND	ND	140	ND	-	-
06/14/1994	21st CEN	ND	ND	3.0	11	ND	1.1	ND	ND	-	-
09/15/1994	21st CEN	ND	ND	5.5	4.1	1.8	1.2	ND	ND	-	-
05/25/1995	EMSL	ND	0.9	6.5	3.1	ND	0.8	ND	11	-	-
08/15/1995	EMSL	5.6	1.3	5.3	2.5	ND	ND	ND	11	-	-
11/21/1995	EMSL	ND	0.6	3.6	1.6	ND	ND	ND	7.3	-	-
02/20/1996	EMSL	ND	2.0	4.2	2	ND	ND	ND	7.2	-	-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
09/27/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	-	-
04/11/1997	FMETL	10.7	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
12/02/1997	FMETL	20	ND	ND	ND	ND	ND	ND	4.79	16300	V,S,P,M
03/04/1998	FMETL	8.0	ND	ND	ND	ND	ND	ND	1.67	12400	V,S,P,M
06/01/1998	FMETL	1.4	ND	ND	ND	ND	ND	ND	-	-	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	ND	ND	-	-	V,Pb
02/14/2000	FMETL	1.49	ND	ND	ND	ND	ND	ND	-	-	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	ND	5.99	-	-	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
05/08/2001	FMETL	ND	ND	ND	ND	ND	ND	3.31	ND	-	V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 05/08/2001

NOTES:

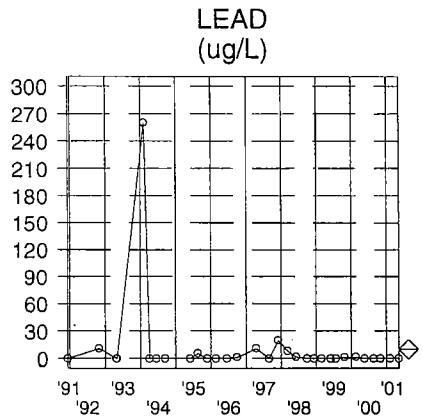
Page 1 of 2.

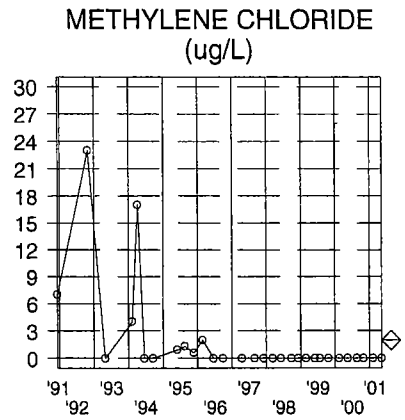
FORT MONMOUTH

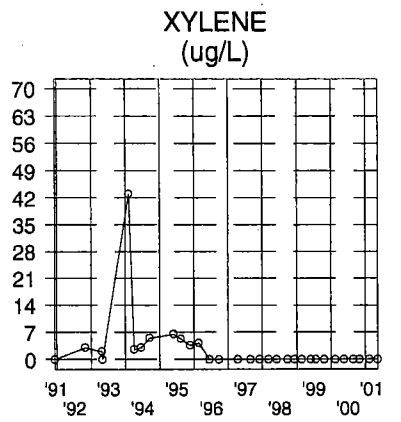
GW MONITORING
Bldg. 2567
Table / Graph A

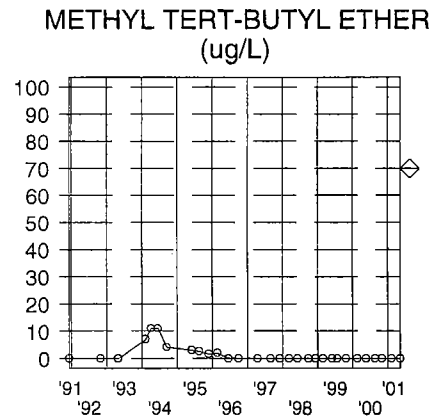
Source 2 of 7

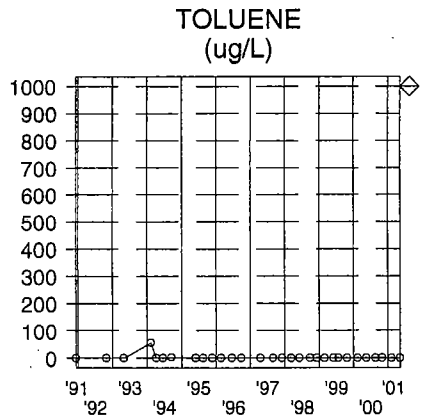
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

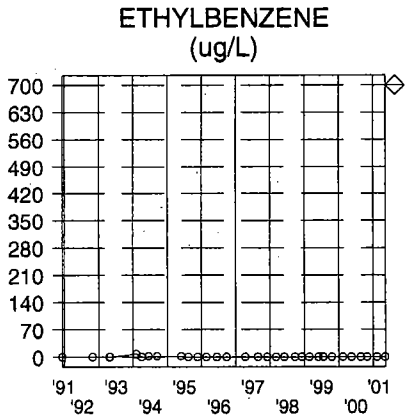


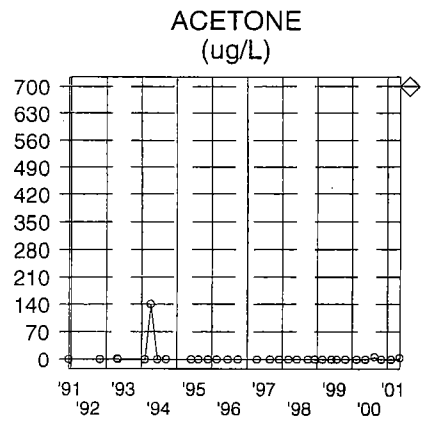


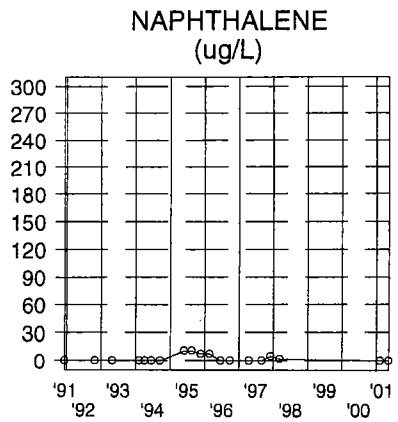


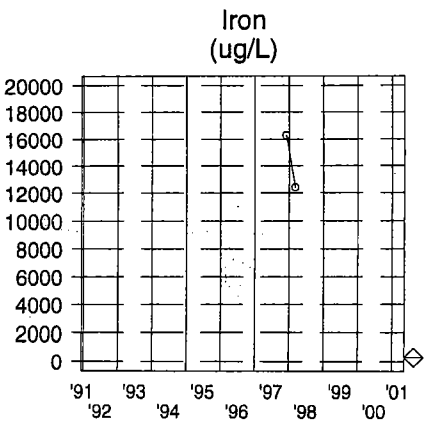












SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 05/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-31-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Manganese	Sodium	Depth to Water							NOTES
Units:	-	ug/L	ug/L	Feet							-
NJDEP Criteria:	-	50	50000	-							-
12/10/1991	ENV PRO	-	-	-							-
10/26/1992	ENV PRO	-	-	-							-
04/21/1993	ENV PRO	-	-	-							-
04/28/1993	21st CEN	-	-	-							BNA Only
02/03/1994	21st CEN	-	-	-							-
03/31/1994	21st CEN	-	-	-							-
06/14/1994	21st CEN	-	-	-							-
09/15/1994	21st CEN	-	-	-							-
05/25/1995	EMSL	-	-	-							-
08/15/1995	EMSL	-	-	-							-
11/21/1995	EMSL	-	-	-							-
02/20/1996	EMSL	-	-	-							-
06/13/1996	FMETL	-	-	-							-
09/27/1996	FMETL	-	-	-							-
04/11/1997	FMETL	-	-	3.40							V,Pb
08/28/1997	FMETL	-	-	4.30							V,Pb
12/02/1997	FMETL	272	58700	3.45							V,S,P,M
03/04/1998	FMETL	100	26600	2.92							V,S,P,M
06/01/1998	FMETL	-	-	3.59							V,Pb
09/24/1998	FMETL	-	-	4.73							V,Pb
12/09/1998	FMETL	-	-	3.42							V,Pb
02/24/1999	FMETL	-	-	3.38							V,Pb
05/29/1999	FMETL	-	-	3.83							V,Pb
07/21/1999	FMETL	-	-	5.03							V,Pb
10/21/1999	FMETL	-	-	3.65							V,Pb
02/14/2000	FMETL	-	-	3.00							V,Pb
05/15/2000	FMETL	-	-	3.77							V,Pb
08/22/2000	FMETL	-	-	3.51							V,Pb
11/01/2000	FMETL	-	-	4.15							V,Pb
02/09/2001	FMETL	-	-	2.75							V,Pb
05/08/2001	FMETL	-	-	3.95							V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 05/08/2001

NOTES:

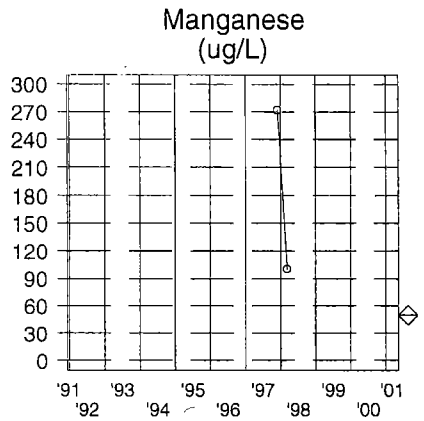
Page 2 of 2.

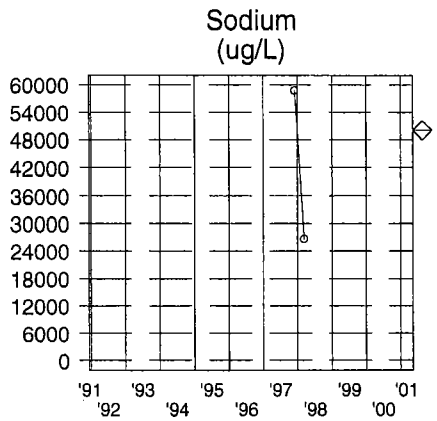
FORT MONMOUTH

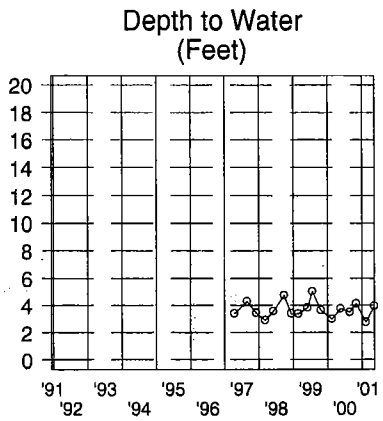
GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 05/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-31-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TOLUENE	ETHYL-BENZENE	ACETONE	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	10	2	1	NLE	NLE	70	1000	700	700	-
12/10/1991	ENV PRO	ND	240	110	200	ND	69	ND	ND	ND	-
10/26/1992	ENV PRO	5	24	ND	3	ND	ND	ND	ND	1	-
04/21/1993	ENV PRO	60	ND	180	74.2	ND	27	15	ND	7.7	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	ND	BNA Only
02/03/1994	21st CEN	41	4.4	19	65	ND	9.1	43	7.0	ND	-
03/31/1994	21st CEN	25	ND	ND	ND	ND	ND	ND	ND	ND	-
06/14/1994	21st CEN	3	ND	15	3.4	ND	100	ND	5.4	ND	-
09/15/1994	21st CEN	ND	ND	ND	1.4	ND	61	ND	ND	ND	-
05/25/1995	EMSL	2.7	21	94	190	ND	400	3.8	6.3	ND	-
08/15/1995	EMSL	ND	25	89	360	ND	670	ND	8.4	ND	-
11/21/1995	EMSL	ND	18	35	91	46	360	ND	ND	ND	-
02/20/1996	EMSL	6	ND	40	70	43	250	1	4.5	ND	-
06/13/1996	FMETL	0.7	ND	ND	ND	ND	ND	ND	ND	ND	-
09/27/1996	FMETL	6.2	ND	ND	ND	ND	ND	ND	ND	ND	-
04/11/1997	FMETL	1.8	ND	ND	ND	ND	ND	ND	ND	ND	V,Pb
08/28/1997	FMETL	ND	25	ND	ND	940	62	ND	ND	ND	V,Pb
12/02/1997	FMETL	10	ND	4.31	ND	ND	188	ND	ND	ND	V,S,P,M
03/04/1998	FMETL	ND	ND	19	8.6	ND	102	ND	ND	ND	V,S,P,M
06/19/1998	FMETL	ND	ND	4.68	ND	27.52	81.82	ND	ND	ND	V,Pb
09/25/1998	FMETL	ND	ND	5.96	3.62	ND	27.27	ND	ND	ND	V,Pb
12/16/1998	FMETL	ND	ND	15.45	3.67	19.38	20.54	ND	ND	ND	V,Pb
02/24/1999	FMETL	1.0	ND	1.03	ND	ND	3.3	ND	ND	ND	V,Pb
05/29/1999	FMETL	ND	ND	1.70	1.29	ND	26.34	ND	1.04	ND	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	8.98	ND	ND	ND	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	ND	13.08	ND	ND	ND	V,Pb
02/14/2000	FMETL	1.22	ND	ND	ND	ND	3.78	ND	ND	ND	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	9.35	ND	ND	ND	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	5.36	ND	ND	ND	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	20.24	ND	ND	ND	V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	1.96	ND	ND	ND	V,Pb
05/08/2001	FMETL	ND	ND	ND	ND	ND	11.95	ND	ND	ND	V, Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 05/08/2001

NOTES:

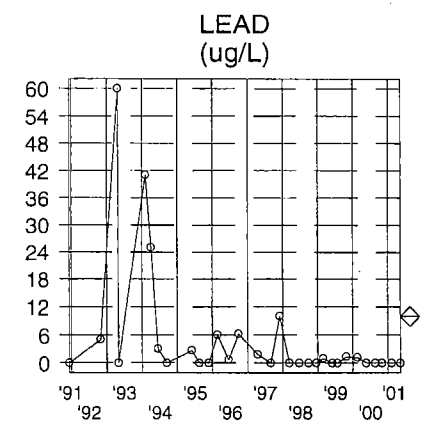
Page 1 of 2.

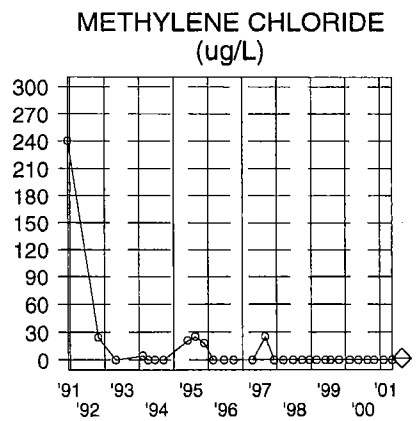
FORT MONMOUTH

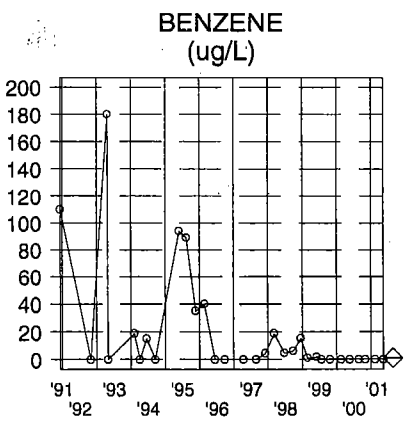
GW MONITORING
Bldg. 2567
Table / Graph A

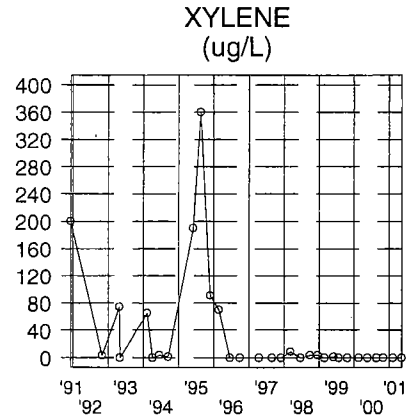
Source 3 of 7

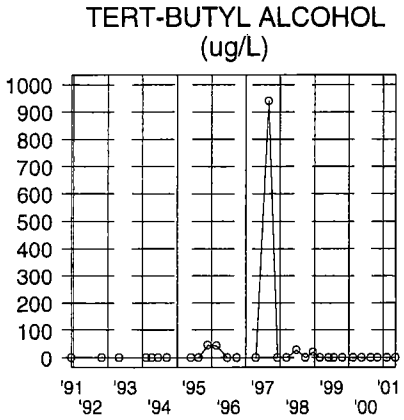
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

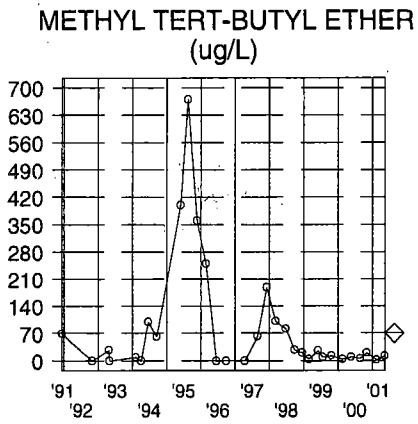


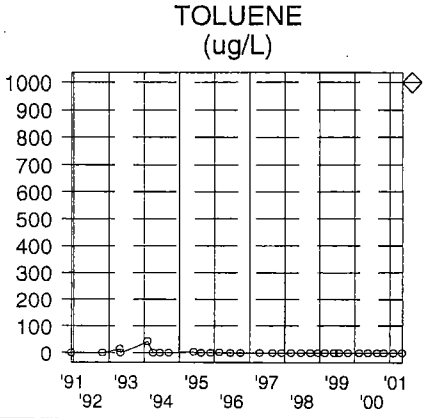


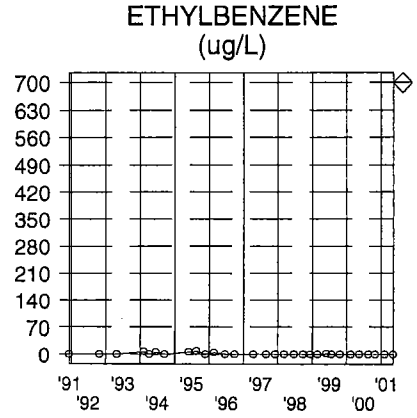


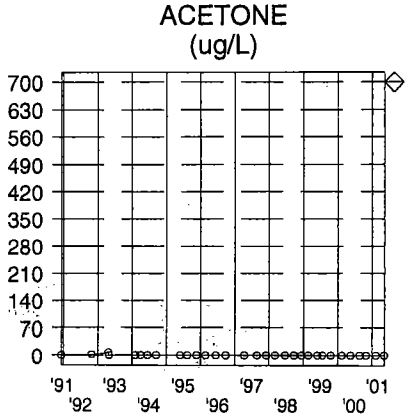












SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 05/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-31-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	NAPTH-ALENE	Iron	Manganese	Sodium	Depth to Water					NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	Feet					-
NJDEP Criteria:	-	NLE	300	50	50000	-					-
12/10/1991	ENV PRO	ND	-	-	-	-					-
10/26/1992	ENV PRO	ND	-	-	-	-					-
04/21/1993	ENV PRO	ND	-	-	-	-					-
04/28/1993	21st CEN	1.2	-	-	-	-					BNA Only
02/03/1994	21st CEN	ND	-	-	-	-					-
03/31/1994	21st CEN	ND	-	-	-	-					-
06/14/1994	21st CEN	ND	-	-	-	-					-
09/15/1994	21st CEN	ND	-	-	-	-					-
05/25/1995	EMSL	ND	-	-	-	-					-
08/15/1995	EMSL	21	-	-	-	-					-
11/21/1995	EMSL	6.6	-	-	-	-					-
02/20/1996	EMSL	5.4	-	-	-	-					-
06/13/1996	FMETL	ND	-	-	-	-					-
09/27/1996	FMETL	ND	-	-	-	-					-
04/11/1997	FMETL	ND	-	-	-	3.15					V,Pb
08/28/1997	FMETL	ND	-	-	-	4.00					V,Pb
12/02/1997	FMETL	1.92	5340	56.6	26900	3.10					V,S,P,M
03/04/1998	FMETL	1.67	13900	144	39600	2.48					V,S,P,M
06/19/1998	FMETL	-	-	-	-	3.99					V,Pb
09/25/1998	FMETL	-	-	-	-	4.56					V,Pb
12/16/1998	FMETL	-	-	-	-	4.25					V,Pb
02/24/1999	FMETL	-	-	-	-	3.16					V,Pb
05/29/1999	FMETL	-	-	-	-	3.55					V,Pb
07/21/1999	FMETL	-	-	-	-	4.85					V,Pb
10/21/1999	FMETL	-	-	-	-	3.93					V,Pb
02/14/2000	FMETL	-	-	-	-	3.42					V,Pb
05/15/2000	FMETL	-	-	-	-	3.40					V,Pb
08/22/2000	FMETL	-	-	-	-	3.17					V,Pb
11/01/2000	FMETL	-	-	-	-	3.56					V,Pb
02/09/2001	FMETL	ND	-	-	-	2.50					V,Pb
05/08/2001	FMETL	ND	-	-	-	3.40					V, Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 05/08/2001

NOTES:

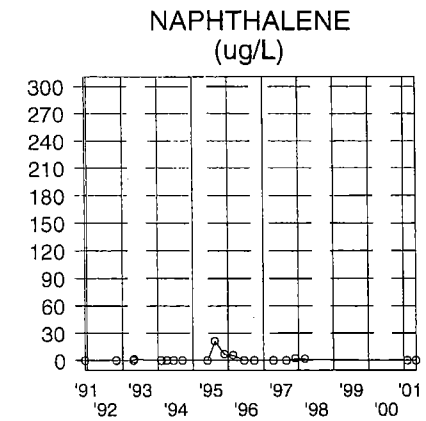
Page 2 of 2.

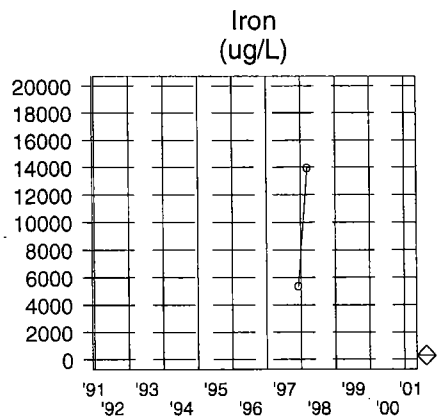
FORT MONMOUTH

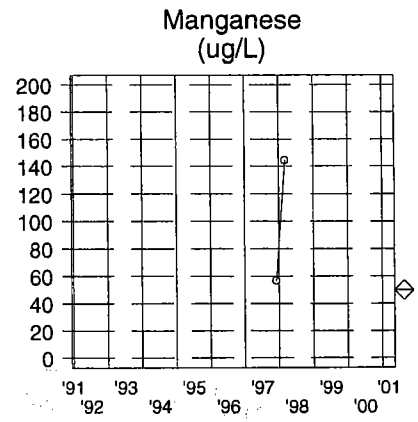
GW MONITORING
Bldg. 2567
Table / Graph A

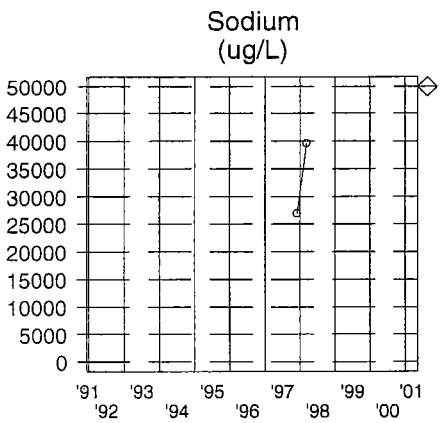
Source 3 of 7

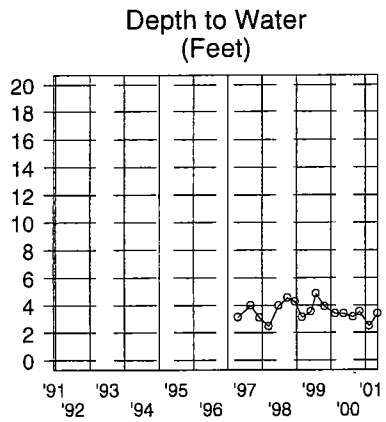
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV











SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 05/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-31-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TOLUENE	Iron	Manganese	Sodium	Depth to Water	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet	-
NJDEP Criteria:	-	10	2	1	NLE	1000	300	50	50000	-	-
12/10/1991	EMSL	5	ND	ND	ND	ND	-	-	-	-	-
10/26/1992	ENV PRO	ND	27	ND	ND	ND	-	-	-	-	-
04/21/1993	ENV PRO	ND	ND	ND	ND	ND	-	-	-	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	BNA Only
02/03/1994	21st CEN	ND	5.0	14	60	56	-	-	-	-	-
03/31/1994	21st CEN	ND	2.3	ND	ND	ND	-	-	-	-	-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	-	-	-	-	-
05/25/1995	EMSL	ND	1.0	ND	ND	ND	-	-	-	-	-
08/15/1995	EMSL	2.6	1.3	ND	ND	ND	-	-	-	-	-
11/21/1995	EMSL	ND	0.6	ND	ND	ND	-	-	-	-	-
02/20/1996	EMSL	ND	1.2	ND	ND	ND	-	-	-	-	-
06/13/1996	FMETL	1.8	ND	ND	ND	ND	-	-	-	-	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	-	-	-	-	-
04/11/1997	FMETL	2.3	ND	ND	ND	ND	-	-	-	2.55	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	-	-	-	3.20	V,Pb
12/02/1997	FMETL	9.0	ND	ND	ND	ND	3590	90	15600	2.45	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	ND	4200	79	12600	2.11	V,S,P,M
06/19/1998	FMETL	ND	ND	ND	ND	ND	-	-	-	2.33	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	-	-	-	3.55	V,Pb
12/12/1998	FMETL	ND	ND	ND	ND	ND	-	-	-	3.11	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	-	-	-	2.44	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	-	-	-	2.76	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	-	-	-	3.98	V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	-	-	-	2.37	V,Pb
02/14/2000	FMETL	1.4	ND	ND	ND	ND	-	-	-	1.69	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	-	-	-	2.65	V,Pb
05/15/2000D	FMETL	ND	ND	ND	ND	ND	-	-	-	2.65	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	-	-	-	2.49	V,Pb
08/22/2000D	FMETL	ND	ND	ND	ND	ND	-	-	-	2.49	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	-	-	-	2.91	V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	-	-	-	1.99	V,Pb
02/09/2001D	FMETL	ND	ND	ND	ND	ND	-	-	-	1.99	V,Pb
05/08/2001	FMETL	ND	ND	ND	ND	ND	-	-	-	2.68	V, Pb
05/08/2001D	FMETL	ND	ND	ND	ND	ND	-	-	-	2.68	V, Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 05/08/2001

NOTES:

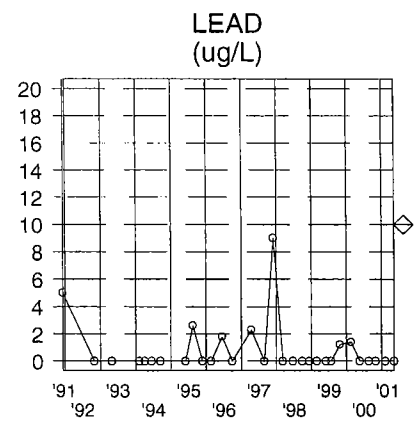
Page 1 of 1.

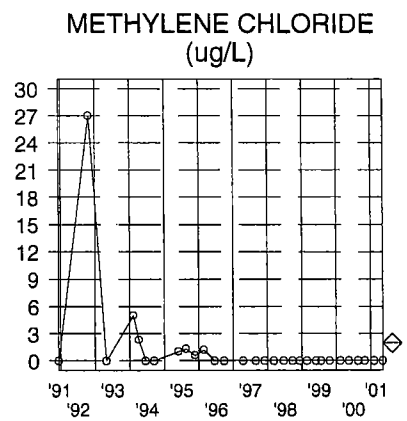
FORT MONMOUTH

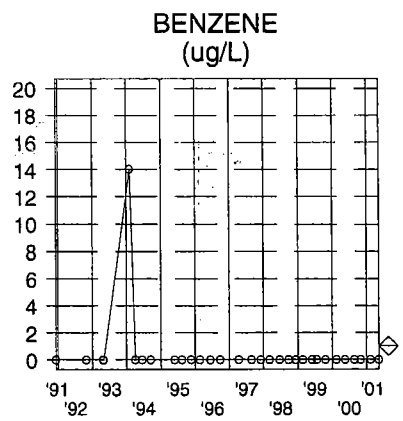
GW MONITORING
Bldg. 2567
Table / Graph A

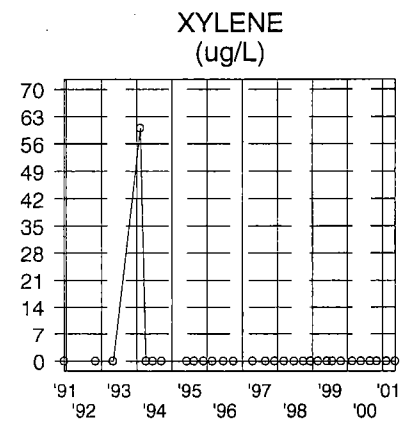
Source 4 of 7

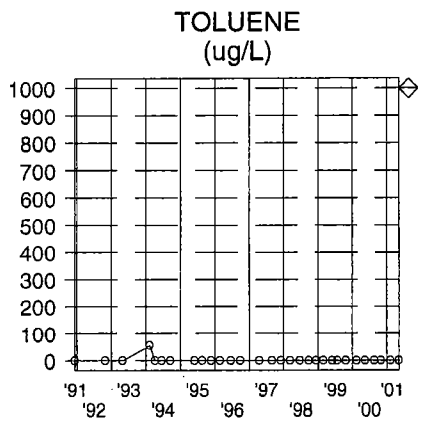
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

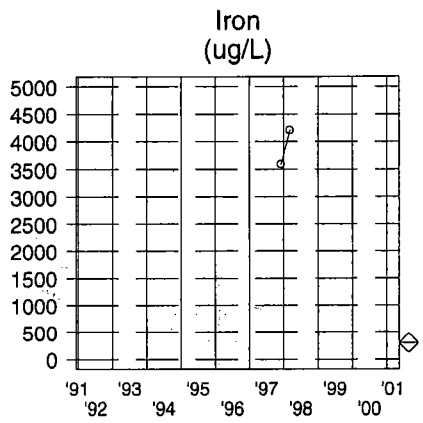


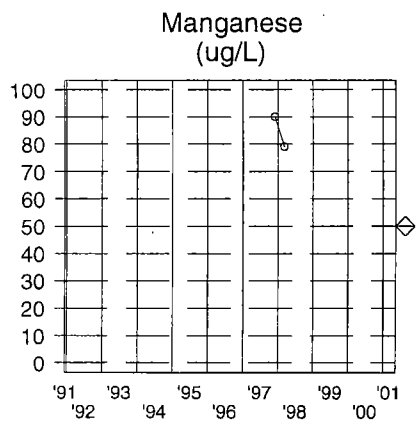


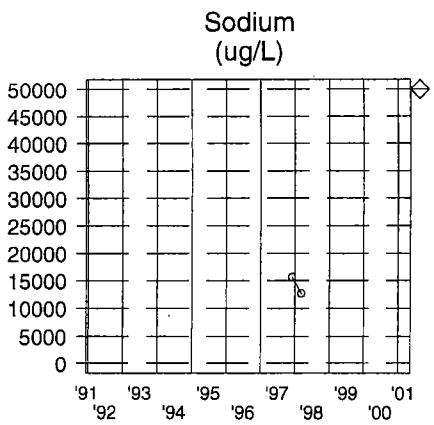


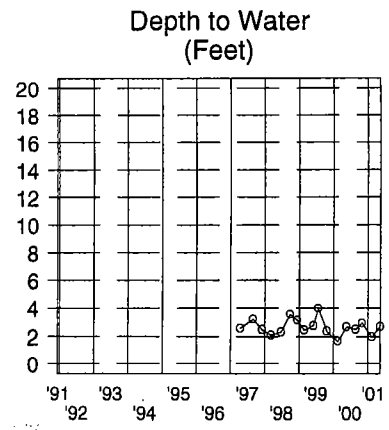












SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 05/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-31-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	ACETONE	Iron	Manganese	Sodium	Depth to Water			NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet			-
NJDEP Criteria:	-	10	2	700	300	50	50000	-			-
05/25/1995	EMSL	4.0	1.2	ND	-	-	-	-			-
08/15/1995	EMSL	ND	1.2	ND	-	-	-	-			-
11/21/1995	EMSL	ND	ND	ND	-	-	-	-			-
02/20/1996	EMSL	ND	0.8	ND	-	-	-	-			-
09/27/1996	FMETL	ND	ND	-	-	-	-	-			-
04/11/1997	FMETL	2.7	ND	-	-	-	-	7.20			V,Pb
08/28/1997	FMETL	ND	ND	-	-	-	-	7.50			V,Pb
12/02/1997	FMETL	7.0	ND	-	19200	100	10500	7.20			V,S,P,M
03/04/1998	FMETL	ND	ND	-	16400	56	9100	7.30			V,S,P,M
06/01/1998	FMETL	ND	ND	-	-	-	-	7.55			V,Pb
09/25/1998	FMETL	ND	ND	-	-	-	-	7.59			V,Pb
12/16/1998	FMETL	ND	ND	-	-	-	-	7.34			V,Pb
02/24/1999	FMETL	ND	ND	-	-	-	-	8.16			V,Pb
06/08/1999	FMETL	ND	ND	-	-	-	-	7.33			V,Pb
07/21/1999	FMETL	ND	ND	-	-	-	-	7.87			V,Pb
10/21/1999	FMETL	4.4	ND	-	-	-	-	8.57			V,Pb
02/14/2000	FMETL	1.21	ND	-	-	-	-	5.75			V,Pb
05/15/2000	FMETL	ND	ND	-	-	-	-	6.92			V,Pb
08/22/2000	FMETL	1.6	ND	ND	-	-	-	6.73			V,Pb
11/01/2000	FMETL	2.4	ND	ND	-	-	-	7.16			V,Pb
02/09/2001	FMETL	ND	ND	ND	-	-	-	5.26			V,Pb
05/08/2001	FMETL	ND	ND	4.35	-	-	-	7.47			V, Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 05/08/2001

NOTES:

Page 1 of 1.

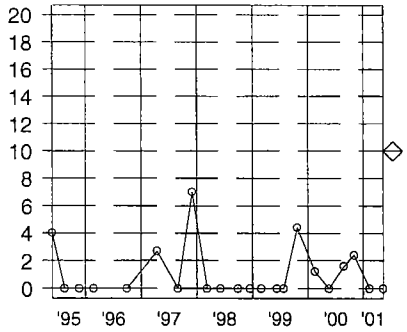
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

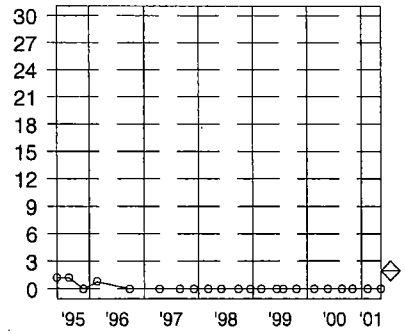
Source 5 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

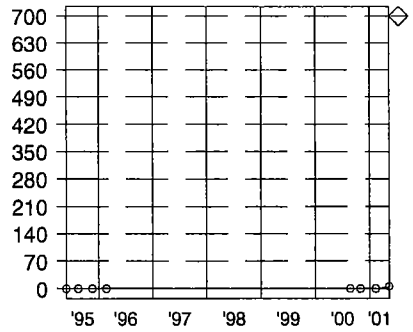
LEAD
(ug/L)



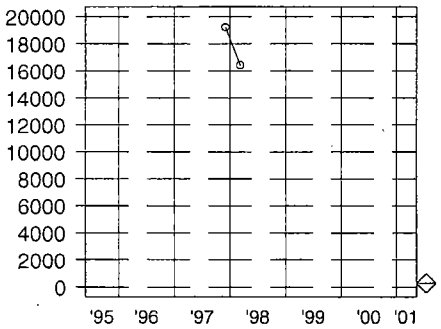
METHYLENE CHLORIDE
(ug/L)



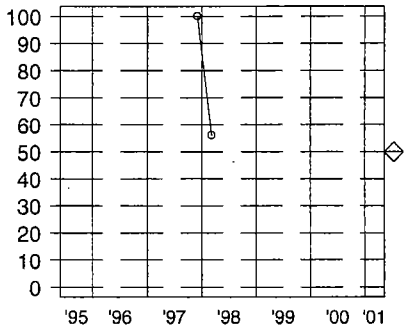
ACETONE
(ug/L)



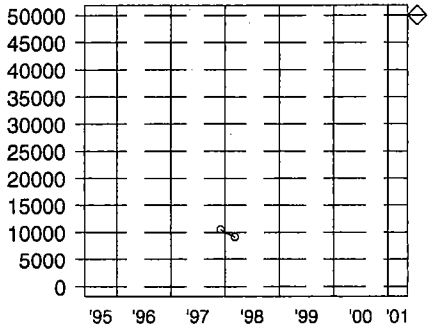
Iron
(ug/L)



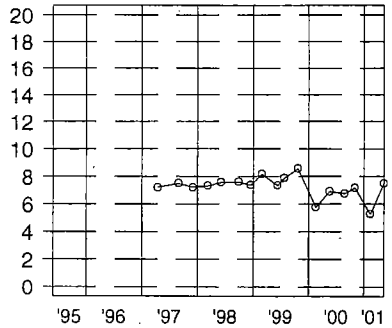
Manganese
(ug/L)



Sodium
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 05/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-31-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	ACETONE	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	700	-								-
08/22/2000	FMETL	4.02	7.06								V,Pb
11/01/2000	FMETL	ND	7.26								V,Pb
02/09/2001	FMETL	ND	6.44								V,Pb
05/08/2001	FMETL	ND	7.42								V, Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 05/08/2001

NOTES:

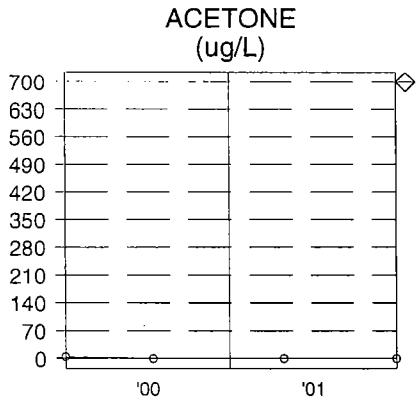
Page 1 of 1

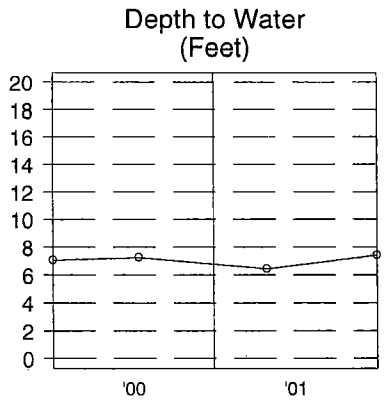
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 05/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-31-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Depth to Water									NOTES
Units:	-	Feet									-
NJDEP Criteria:	-	-									-
08/22/2000	FMETL	6.65									V,Pb
11/02/2000	FMETL	6.80									V,Pb
02/09/2001	FMETL	6.23									V,Pb
05/08/2001	FMETL	7.02									V, Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 05/08/2001

NOTES:

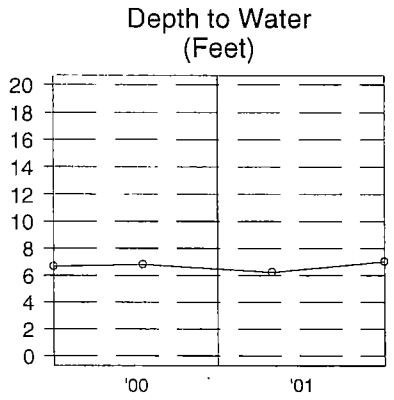
Page 1 of 1

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 05/08/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

05-31-2001 x:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567 #18

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
1635604	2567MW01	29-26925	08/15/01
1635605	2567MW02	29-26926	08/15/01
1635606	2567MW03	29-26947	08/15/01
1635607	2567MW04	29-26948	08/15/01
1635608	2567MW05	29-31783	08/15/01
1635609	2567MW06	29-42585	08/15/01
1635610	2567MW07	29-42586	08/15/01

NJDEP Laboratory Certification # 13461

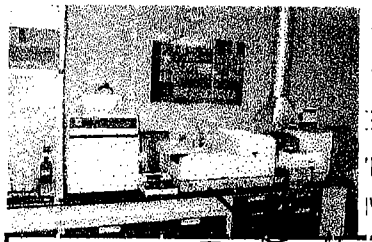
9-24-01

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallow
Phone #: 126223
(X)DERA ( )OMA ( )Other:
Project No:
Location: 2567 wells 3rd Qtr '01
Samplers Name / Company: ~~Corey McCormack~~, TVS

Analysis Parameters: VOTIS, Pb, Hno Read

Comments: HCL/ HNO_3 / <4°C

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	VOTIS	Pb						Hno Read	Remarks / Preservation Method
10356-.01	Trip	8/15/01	0632	AQ	2	✓							—	
.02	Field Blank		~~0930~~		3	✓	✓						—	
.03	Dupe		—		3	✓	✓						—	
.04	2567mw01		~~1040~~ 830		3	✓	✓						·	29-26925
.05	2567mw02		843			✓	✓							29-26926
.06	2567mw03		1009			✓	✓							29-26947
.07	2567mw04		948			✓	✓							29-26948
.08	2567mw05		1456			✓	✓							29-31783
.09	2567mw06		1441			✓	✓							29-42585
.10	2567mw07		1445			✓	✓							29-42586

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	/ /				
John Leonard	8-15-01 1545	[signature]			

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ___ Days, ( )ASAP Verbal ___ Hrs.

Remarks: Tide:

print legibly

Coc.xls7/20/01

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Justin Leonard
DATE: 08/15/01
WEATHER: Sunny.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.95 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.15 ft
(8.15) X .65 X 3 = 15.89
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: .27 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:30
pH 6.87 su TEMP 20.52 °C
DISSOLVED O2 .07 ppm SPECIFIC CONDUCTIVITY 383.3 us/cm

PURGE END TIME: 09:39
pH 6.70 su TEMP 22.61 °C
DISSOLVED O2 0.00 ppm SPECIFIC CONDUCTIVITY 687.1 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 6.05 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 09:40
pH 6.69 su TEMP 22.64 °C
DISSOLVED O2 0.01 ppm SPECIFIC CONDUCTIVITY 686.8 us/cm

SAMPLE END TIME: 09:48

COMMENTS: DUP. Here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Justin Leonard
DATE: 08/15/01
WEATHER: Sunny.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.65 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.55 ft
(7.55) X .65 X 3 = 14.7
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: .29 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:43
pH 6.63 su TEMP 21.53 °C
DISSOLVED O2 .07 ppm SPECIFIC CONDUCTIVITY 310.2 us/cm

PURGE END TIME: 09:48
pH 6.51 su TEMP 22.47 °C
DISSOLVED O2 .05 ppm SPECIFIC CONDUCTIVITY 332.5 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.4 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 09:49
pH 6.50 su TEMP 22.49 °C
DISSOLVED O2 .05 ppm SPECIFIC CONDUCTIVITY 332.7 us/cm

SAMPLE END TIME: 09:58

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Justin Leonard
DATE: 05/15/01
WEATHER: Sunny.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.3 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.2 ft
(8.2) X .65 X 3 = 16
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: .27 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:51
pH 6.01 su TEMP 22.04 °C
DISSOLVED O2 0.39 ppm SPECIFIC CONDUCTIVITY 133.9 us/cm

PURGE END TIME: 10:01
pH 6.57 su TEMP 23.12 °C
DISSOLVED O2 0.00 ppm SPECIFIC CONDUCTIVITY 572.6 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.85 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 10:02
pH 6.59 su TEMP 23.16 °C
DISSOLVED O2 0.00 ppm SPECIFIC CONDUCTIVITY 572.8 us/cm

SAMPLE END TIME: 10:09

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: Justin Leonard
WEATHER: Sunny.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.5 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.16 ft
(8.16) X .65 X 3 = 16
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: .27 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:37
pH 7.03 su TEMP 19.92 °C
DISSOLVED O2 .68 ppm SPECIFIC CONDUCTIVITY 120.9 us/cm

PURGE END TIME: 09:47
pH 6.46 su TEMP 21.11 °C
DISSOLVED O2 .14 ppm SPECIFIC CONDUCTIVITY 284.2 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.95 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 09:48
pH 6.50 su TEMP 21.13 °C
DISSOLVED O2 .13 ppm SPECIFIC CONDUCTIVITY 284.1 us/cm

SAMPLE END TIME: 09:56

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Justin Leonard
DATE: 08/15/01
WEATHER: Sunny.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.7 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.05 ft
(7.05) X .65 X 3 = 14
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: .30 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 13:53
pH 6.45 su
TEMP 16.33 °C
DISSOLVED O2 0.22 ppm
SPECIFIC CONDUCTIVITY 257.5 us/cm

PURGE END TIME: 14:54
pH 6.17 su
TEMP 17.67 °C
DISSOLVED O2 0.73 ppm
SPECIFIC CONDUCTIVITY 169.5 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.05 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 14:56
pH 6.19 su
TEMP 17.66 °C
DISSOLVED O2 0.17 ppm
SPECIFIC CONDUCTIVITY 169.3 us/cm

SAMPLE END TIME: 15:04

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Justin Leonard
DATE: 08/15/01
WEATHER: Sunny.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 8.15 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.60 ft
(7.60) X .65 X 3 = 14.82
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: .28 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 13:35
pH 6.05 su TEMP 14.95 °C
DISSOLVED O2 0.22 ppm SPECIFIC CONDUCTIVITY 123.4 us/cm

PURGE END TIME: 14:40
pH 5.57 su TEMP 16.41 °C
DISSOLVED O2 0.32 ppm SPECIFIC CONDUCTIVITY 154.3 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.3 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 14:41
pH 5.50 su TEMP 16.47 °C
DISSOLVED O2 .30 ppm SPECIFIC CONDUCTIVITY 154.4 us/cm

SAMPLE END TIME: 14:47

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Justin Leonard
DATE: 08/15/01
WEATHER: Sunny.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.75 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.75 ft
(8.75) X .65 X 3 = 17
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: .25 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 13:30
pH 6.11 su TEMP 18.00 °C
DISSOLVED O2 .02 ppm SPECIFIC CONDUCTIVITY 418.1 us/cm

PURGE END TIME: 14:43
pH 6.28 su TEMP 19.36 °C
DISSOLVED O2 0.04 ppm SPECIFIC CONDUCTIVITY 435.8 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.6 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 14:45
pH 6.30 su TEMP 19.41 °C
DISSOLVED O2 0.05 ppm SPECIFIC CONDUCTIVITY 435.9 us/cm

SAMPLE END TIME: 14:52

COMMENTS:

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	:	**Method Detection Limit**
J	:	**Compound identified below detection limit**
B	:	**Compound found in blank**
D	:	**Results are from a dilution of the sample**
U	:	**Compound searched for but not detected**
E	:	**Compound exceeds calibration limit**
PQL	:	**Practical Quantitation Limit**
NLE	:	**No limit established**
RT	:	**Retention time**

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB009900.D**	Sample Name	**MB**
Operator	**Skelton**	Field ID	**MB**
Date Acquired	**22 Aug 2001 10:12 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

MB

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16356 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: MB

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB009900.D

Level: (low/med) LOW Date Received: 8/15/01

% Moisture: not dec. Date Analyzed: 8/22/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB009917.D**	Sample Name	**1635601**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**22 Aug 2001 9:48 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform	16.30	343505	3.81 ug/L	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16356 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1635601

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB009917.D

Level: (low/med) LOW Date Received: 8/15/01

% Moisture: not dec. Date Analyzed: 8/22/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB009918.D**	Sample Name	**1635602**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**22 Aug 2001 10:29 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform	16.29	317889	3.51 ug/L	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16356 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1635602

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB009918.D

Level: (low/med) LOW Date Received: 8/15/01

% Moisture: not dec. Date Analyzed: 8/22/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB009919.D**	Sample Name	**1635603**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**22 Aug 2001 11:09 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	10.15	2464412	457.64 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.90	235741	1.54 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16356 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1635603

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB009919.D

Level: (low/med) LOW Date Received: 8/15/01

% Moisture: not dec. Date Analyzed: 8/22/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB009920.D**	Sample Name	**1635604**
Operator	**Skelton**	Field ID	**2567MW01**
Date Acquired	**22 Aug 2001 11:50 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	10.12	1316490	248.74 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW01

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16356 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1635604

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB009920.D

Level: (low/med) LOW Date Received: 8/15/01

% Moisture: not dec. _____ Date Analyzed: 8/22/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB009921.D**	Sample Name	**1635605**
Operator	**Skelton**	Field ID	**2567MW02**
Date Acquired	**23 Aug 2001 12:30 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW02

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16356 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1635605

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB009921.D

Level: (low/med) LOW Date Received: 8/15/01

% Moisture: not dec. Date Analyzed: 8/23/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB009922.D**	Sample Name	**1635606**
Operator	**Skelton**	Field ID	**2567MW03**
Date Acquired	**23 Aug 2001 1:11 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	10.09	358619	67.42 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.91	2694979	17.80 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone	15.28	916011	31.95 ug/L	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW03

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16356 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1635606

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB009922.D

Level: (low/med) LOW Date Received: 8/15/01

% Moisture: not dec. Date Analyzed: 8/23/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.40	110	JN
2. 000109-66-0	Pentane	7.24	38	JN
3.	unknown	8.66	10	J
4. 000079-29-8	Butane, 2,3-dimethyl-	10.50	25	JN
5.	unknown	11.63	81	J
6. 000110-54-3	Hexane	12.66	7	JN
7. 000110-82-7	Cyclohexane	17.53	37	JN
8. 000098-82-8	Benzene, (1-methylethyl)-	29.72	25	JN
9. 000103-65-1	Benzene, propyl-	30.71	24	JN
10. 000496-11-7	Indane	33.87	22	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB009923.D**	Sample Name	**1635607**
Operator	**Skelton**	Field ID	**2567MW04**
Date Acquired	**23 Aug 2001 1:51 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW04

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16356 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1635607

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB009923.D

Level: (low/med) LOW Date Received: 8/15/01

% Moisture: not dec. Date Analyzed: 8/23/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB009924.D**	Sample Name	**1635608**
Operator	**Skelton**	Field ID	**2567MW05**
Date Acquired	**23 Aug 2001 2:32 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW05

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16356 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1635608

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB009924.D

Level: (low/med) LOW Date Received: 8/15/01

% Moisture: not dec. Date Analyzed: 8/23/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB009925.D**	Sample Name	**1635609**
Operator	**Skelton**	Field ID	**2567MW06**
Date Acquired	**23 Aug 2001 3:12 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW06

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16356 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1635609

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB009925.D

Level: (low/med) LOW Date Received: 8/15/01

% Moisture: not dec. _____ Date Analyzed: 8/23/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB009926.D**	Sample Name	**1635610**
Operator	**Skelton**	Field ID	**2567MW07**
Date Acquired	**23 Aug 2001 3:53 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
00-00-0	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW07

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16356 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1635610

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB009926.D

Level: (low/med) LOW Date Received: 8/15/01

% Moisture: not dec. Date Analyzed: 8/23/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Analysis Start: 08/21/01
Analysis Completed: 08/21/01

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 1635602-10
Sample Received: 08/15/01
Analysis Start: 08/21/01
Analysis Completed: 08/21/01

Site: Ft. Monmouth
Bldg. 2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
1635602	Field Blank	ND	10	0.8
1635603	Dupe	ND	10	0.8
1635604	2567MW01	ND	10	0.8
1635605	2567MW02	ND	10	0.8
1635606	2567MW03	ND	10	0.8
1635607	2567MW04	2.2	10	0.8
1635608	2567MW05	8.4	10	0.8
1635609	2567MW06	ND	10	0.8
1635610	2567MW07	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	METHY-LENE CHLORIDE	1,2-DI-CHLORO-ETHANE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Iron	Manganese	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	10	2	2	1	NLE	NLE	70	300	50	-
12/10/1991	ENV PRO	4	240	55	2400	42	4400	2200	-	-	-
10/26/1992	ENV PRO	ND	420	ND	2800	302	5400	1200	-	-	-
10/26/1992D	ENV PRO	ND	130	ND	3200	57	7000	1500	-	-	-
04/21/1993	21st CEN	70	16	ND	520	ND	470	890	-	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	-	-	BNA Only
02/03/1994	21st CEN	ND	26	ND	21	41	28	650	-	-	-
03/31/1994	21st CEN	ND	ND	ND	ND	ND	22	10	-	-	-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	120	88	-	-	-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	600	56	-	-	-
05/25/1995	EMSL	ND	1.5	ND	ND	ND	930	110	-	-	-
08/15/1995	EMSL	3.3	1.3	ND	ND	ND	930	29	-	-	-
11/21/1995	EMSL	ND	36	ND	ND	ND	860	80	-	-	-
02/20/1996	EMSL	4	2.1	ND	ND	ND	780	100	-	-	-
06/13/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	-	-	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	-
04/11/1997	FMETL	2.5	ND	ND	ND	ND	ND	ND	-	-	V,Pb
08/28/1997	FMETL	1.4	ND	ND	39.4	72.7	ND	240	-	-	V,Pb
12/02/1997	FMETL	7.0	ND	ND	ND	ND	357	20.3	4110	93	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	ND	560	37	5800	108	V,S,P,M
06/01/1998	FMETL	0.5	ND	ND	ND	ND	95.63	24.23	-	-	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	283	10.02	-	-	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	143.26	3.43	-	-	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	675	26.15	-	-	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	605.1	9.16	-	-	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	155.56	3.33	-	-	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	ND	497.3	4.8	-	-	V,Pb
02/14/2000	FMETL	1.31	ND	ND	ND	ND	992	8.2	-	-	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	458.88	5.24	-	-	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	218.42	1.20	-	-	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	ND	15.04	-	-	V,Pb
11/01/2000D	FMETL	ND	ND	ND	ND	ND	ND	15.33	-	-	V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	1488.05	4.83	-	-	V,Pb
05/08/2001	FMETL	0.93	ND	ND	ND	ND	764.25	2.10	-	-	V, Pb
08/15/2001	FMETL	ND	ND	ND	ND	ND	248.74	ND	-	-	V, Pb
08/15/2001D	FMETL	ND	ND	ND	ND	ND	457.64	1.54	-	-	V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/15/2001

NOTES:

Page 1 of 2.

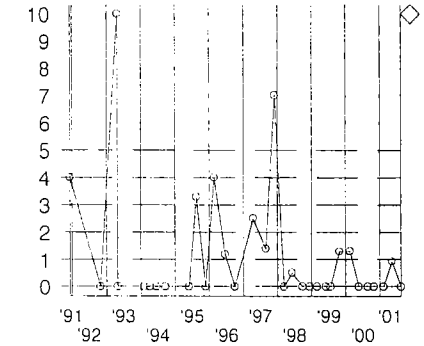
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

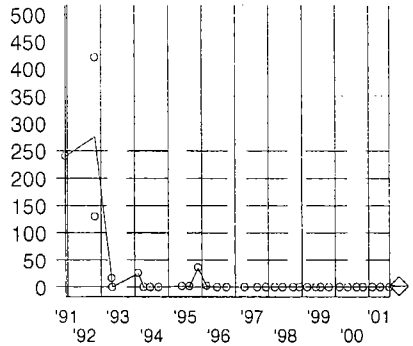
Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

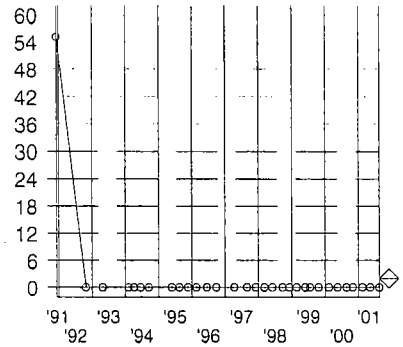
LEAD
(ug/L)



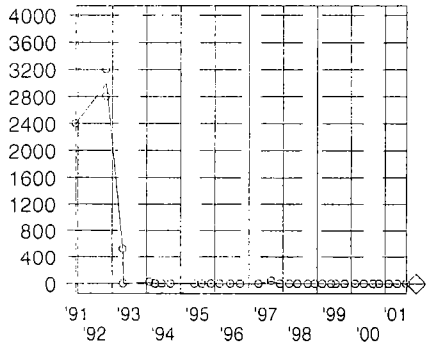
METHYLENE CHLORIDE
(ug/L)



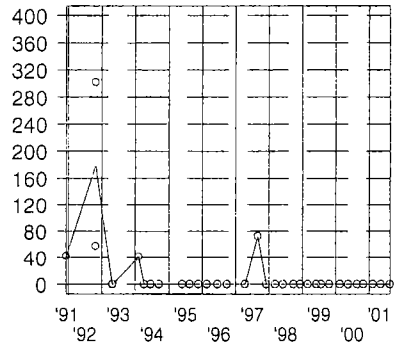
1,2-DICHLOROETHANE
(ug/L)



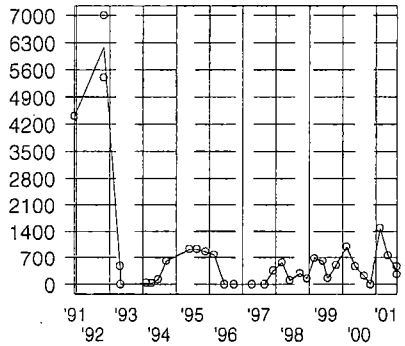
BENZENE
(ug/L)



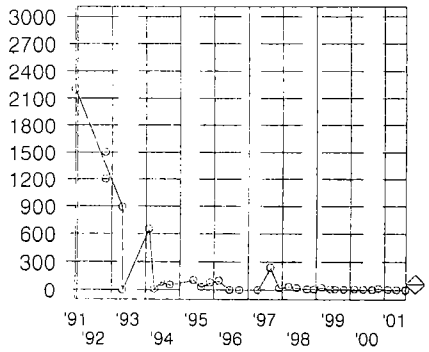
XYLENE
(ug/L)



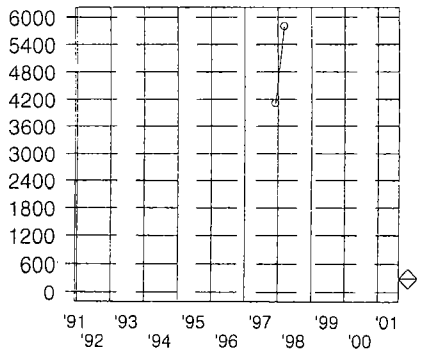
TERT-BUTYL ALCOHOL
(ug/L)



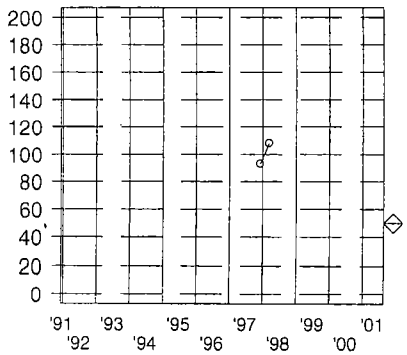
METHYL TERT-BUTYL ETHER
(ug/L)



Iron
(ug/L)



Manganese
(ug/L)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/15/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2001 x:\mtech46\fm\2567\gw\2567.wsi

	LAB	Sodium	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	50000	-								-
12/10/1991	ENV PRO	-	-								-
10/26/1992	ENV PRO	-	-								-
10/26/1992D	ENV PRO	-	-								-
04/21/1993	21st CEN	-	-								-
04/28/1993	21st CEN	-	-								BNA Only
02/03/1994	21st CEN	-	-								-
03/31/1994	21st CEN	-	-								-
06/14/1994	21st CEN	-	-								-
09/15/1994	21st CEN	-	-								-
05/25/1995	EMSL	-	-								-
08/15/1995	EMSL	-	-								-
11/21/1995	EMSL	-	-								-
02/20/1996	EMSL	-	-								-
06/13/1996	FMETL	-	-								-
09/27/1996	FMETL	-	-								-
04/11/1997	FMETL	-	3.80								V,Pb
08/28/1997	FMETL	-	4.80								V,Pb
12/02/1997	FMETL	76000	3.90								V,S,P,M
03/04/1998	FMETL	48900	3.51								V,S,P,M
06/01/1998	FMETL	-	4.06								V,Pb
09/24/1998	FMETL	-	5.21								V,Pb
12/09/1998	FMETL	-	4.90								V,Pb
02/24/1999	FMETL	-	3.75								V,Pb
05/29/1999	FMETL	-	4.20								V,Pb
07/21/1999	FMETL	-	5.48								V,Pb
10/21/1999	FMETL	-	4.03								V,Pb
02/14/2000	FMETL	-	3.31								V,Pb
05/15/2000	FMETL	-	4.04								V,Pb
08/22/2000	FMETL	-	3.87								V,Pb
11/01/2000	FMETL	-	4.24								V,Pb
11/01/2000D	FMETL	-	4.24								V,Pb
02/09/2001	FMETL	-	3.30								V,Pb
05/08/2001	FMETL	-	4.15								V, Pb
08/15/2001	FMETL	-	4.95								V, Pb
08/15/2001D	FMETL	-	4.95								V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/15/2001

NOTES:

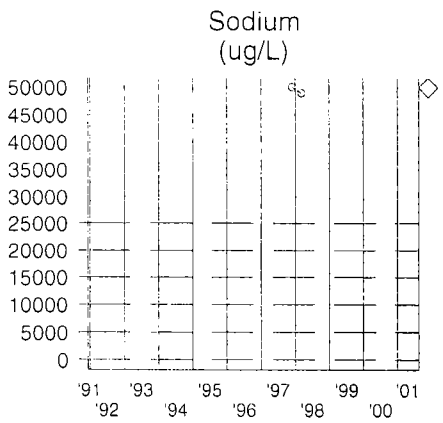
Page 2 of 2.

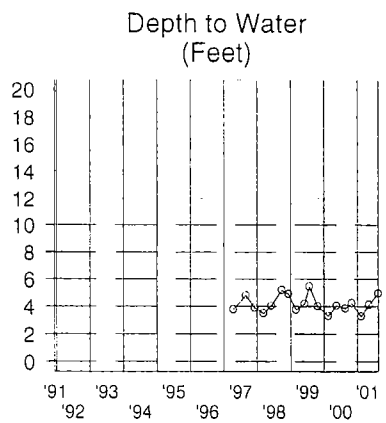
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/15/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	MTBE	TOLUENE	ETHYL-BENZENE	NAPTH-ALENE	Iron	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	10	2	1	NLE	70	1000	700	NLE	300	-
12/10/1991	ENV PRO	ND	7	3	ND	ND	ND	ND	ND	-	-
10/26/1992	ENV PRO	11	23	ND	3	ND	ND	ND	ND	-	-
04/21/1993	ENV PRO	ND	ND	ND	2.0	ND	ND	ND	ND	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	BNA Only
02/03/1994	21st CEN	260	4.0	19	43	7.0	55	7.4	ND	-	-
03/31/1994	21st CEN	ND	17	ND	2.5	11	ND	ND	ND	-	-
06/14/1994	21st CEN	ND	ND	ND	3.0	11	ND	1.1	ND	-	-
09/15/1994	21st CEN	ND	ND	ND	5.5	4.1	1.8	1.2	ND	-	-
05/25/1995	EMSL	ND	0.9	ND	6.5	3.1	ND	0.8	11	-	-
08/15/1995	EMSL	5.6	1.3	ND	5.3	2.5	ND	ND	11	-	-
11/21/1995	EMSL	ND	0.6	ND	3.6	1.6	ND	ND	7.3	-	-
02/20/1996	EMSL	ND	2.0	ND	4.2	2	ND	ND	7.2	-	-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
09/27/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	-	-
04/11/1997	FMETL	10.7	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
12/02/1997	FMETL	20	ND	ND	ND	ND	ND	ND	4.79	16300	V,S,P,M
03/04/1998	FMETL	8.0	ND	ND	ND	ND	ND	ND	1.67	12400	V,S,P,M
06/01/1998	FMETL	1.4	ND	ND	ND	ND	ND	ND	-	-	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	ND	ND	-	-	V,Pb
02/14/2000	FMETL	1.49	ND	ND	ND	ND	ND	ND	-	-	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	ND	ND	-	-	V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
05/08/2001	FMETL	1.02	ND	ND	ND	ND	ND	ND	ND	-	V, Pb
08/15/2001	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 08/15/2001

NOTES:

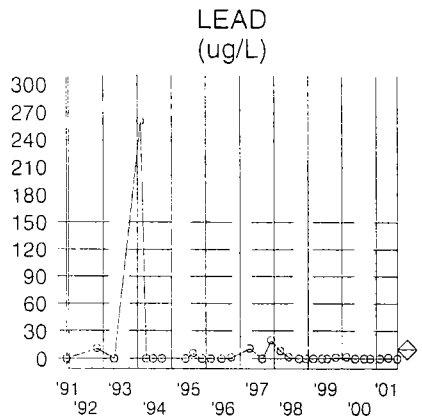
Page 1 of 2.

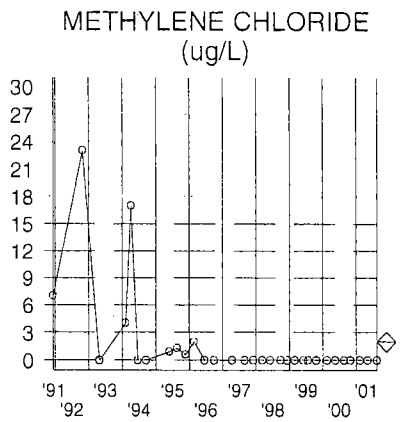
FORT MONMOUTH

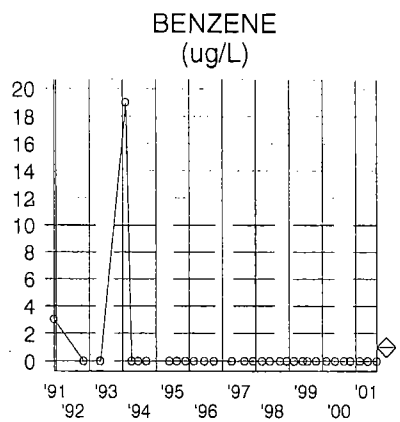
GW MONITORING
Bldg. 2567
Table / Graph A

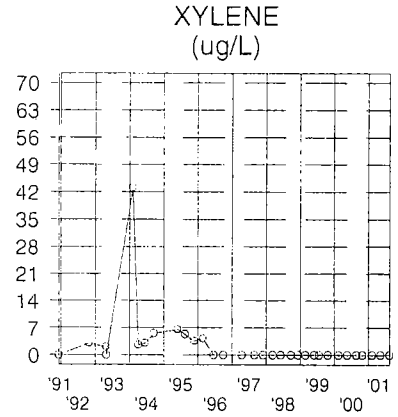
Source 2 of 7

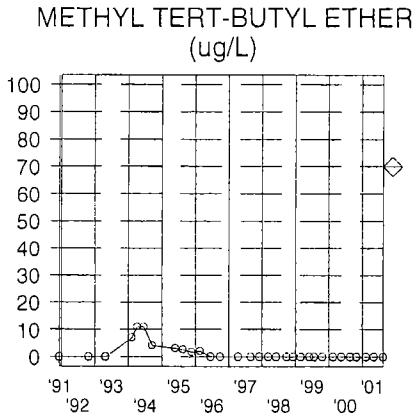
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

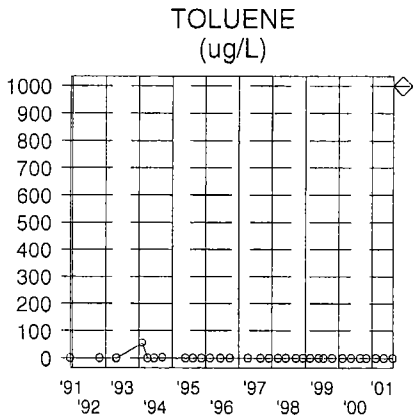


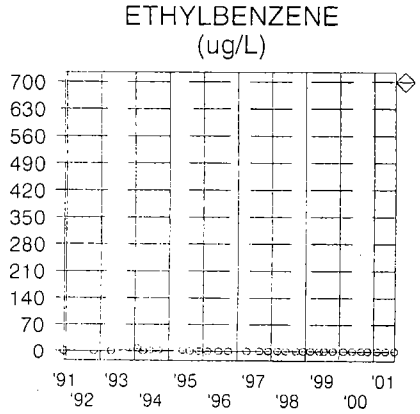


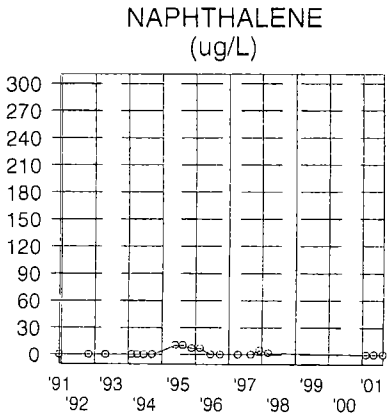


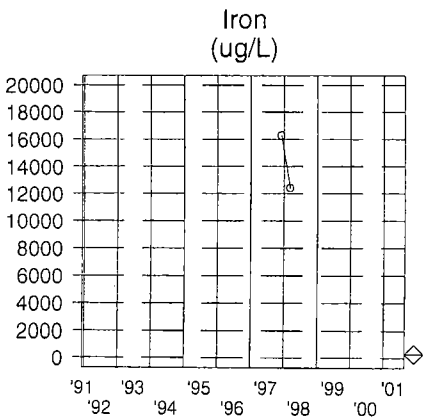












SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 08/15/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Manganese	Sodium	Depth to Water							NOTES
Units:	-	ug/L	ug/L	Feet							-
NJDEP Criteria:	-	50	50000	-							-
12/10/1991	ENV PRO	-	-	-							-
10/26/1992	ENV PRO	-	-	-							-
04/21/1993	ENV PRO	-	-	-							-
04/28/1993	21st CEN	-	-	-							BNA Only
02/03/1994	21st CEN	-	-	-							-
03/31/1994	21st CEN	-	-	-							-
06/14/1994	21st CEN	-	-	-							-
09/15/1994	21st CEN	-	-	-							-
05/25/1995	EMSL	-	-	-							-
08/15/1995	EMSL	-	-	-							-
11/21/1995	EMSL	-	-	-							-
02/20/1996	EMSL	-	-	-							-
06/13/1996	FMETL	-	-	-							-
09/27/1996	FMETL	-	-	-							-
04/11/1997	FMETL	-	-	3.40							V,Pb
08/28/1997	FMETL	-	-	4.30							V,Pb
12/02/1997	FMETL	272	58700	3.45							V,S,P,M
03/04/1998	FMETL	100	26600	2.92							V,S,P,M
06/01/1998	FMETL	-	-	3.59							V,Pb
09/24/1998	FMETL	-	-	4.73							V,Pb
12/09/1998	FMETL	-	-	3.42							V,Pb
02/24/1999	FMETL	-	-	3.38							V,Pb
05/29/1999	FMETL	-	-	3.83							V,Pb
07/21/1999	FMETL	-	-	5.03							V,Pb
10/21/1999	FMETL	-	-	3.65							V,Pb
02/14/2000	FMETL	-	-	3.00							V,Pb
05/15/2000	FMETL	-	-	3.77							V,Pb
08/22/2000	FMETL	-	-	3.51							V,Pb
11/01/2000	FMETL	-	-	4.15							V,Pb
02/09/2001	FMETL	-	-	2.75							V,Pb
05/08/2001	FMETL	-	-	3.95							V, Pb
08/15/2001	FMETL	-	-	4.65							V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 08/15/2001

NOTES:

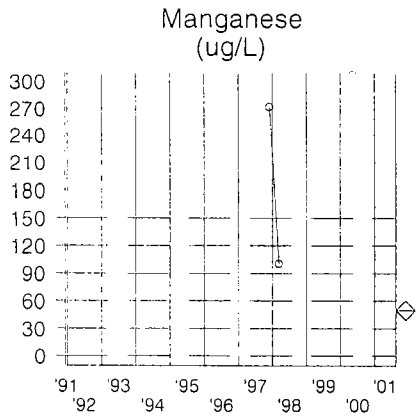
Page 2 of 2.

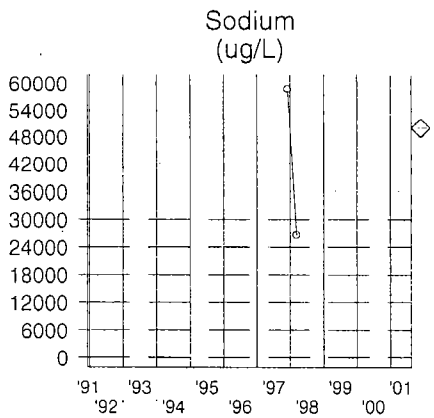
FORT MONMOUTH

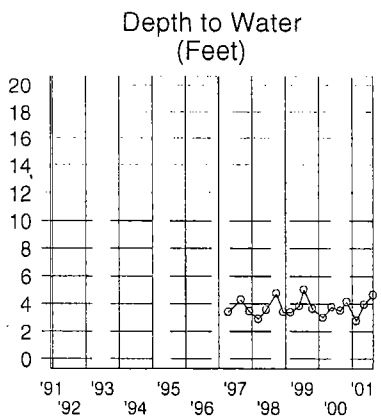
GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 08/15/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TOLUENE	ETHYL-BENZENE	Iron	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	-
NJDEP Criteria:	-	10	2	1	NLE	NLE	70	1000	700	300	-
12/10/1991	ENV PRO	ND	240	110	200	ND	69	ND	ND	-	-
10/26/1992	ENV PRO	5	24	ND	3	ND	ND	ND	ND	-	-
04/21/1993	ENV PRO	60	ND	180	74.2	ND	27	15	ND	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	BNA Only
02/03/1994	21st CEN	41	4.4	19	65	ND	9.1	43	7.0	-	-
03/31/1994	21st CEN	25	ND	ND	ND	ND	ND	ND	ND	-	-
06/14/1994	21st CEN	3	ND	15	3.4	ND	100	ND	5.4	-	-
09/15/1994	21st CEN	ND	ND	ND	1.4	ND	61	ND	ND	-	-
05/25/1995	EMSL	2.7	21	94	190	ND	400	3.8	6.3	-	-
08/15/1995	EMSL	ND	25	89	360	ND	670	ND	8.4	-	-
11/21/1995	EMSL	ND	18	35	91	46	360	ND	ND	-	-
02/20/1996	EMSL	6	ND	40	70	43	250	1	4.5	-	-
06/13/1996	FMETL	0.7	ND	ND	ND	ND	ND	ND	ND	-	-
09/27/1996	FMETL	6.2	ND	ND	ND	ND	ND	ND	ND	-	-
04/11/1997	FMETL	1.8	ND	ND	ND	ND	ND	ND	ND	-	V,Pb
08/28/1997	FMETL	ND	25	ND	ND	940	62	ND	ND	-	V,Pb
12/02/1997	FMETL	10	ND	4.31	ND	ND	188	ND	ND	5340	V,S,P,M
03/04/1998	FMETL	ND	ND	19	8.6	ND	102	ND	ND	13900	V,S,P,M
06/19/1998	FMETL	ND	ND	4.68	ND	27.52	81.82	ND	ND	-	V,Pb
09/25/1998	FMETL	ND	ND	5.96	3.62	ND	27.27	ND	ND	-	V,Pb
12/16/1998	FMETL	ND	ND	15.45	3.67	19.38	20.54	ND	ND	-	V,Pb
02/24/1999	FMETL	1.0	ND	1.03	ND	ND	3.3	ND	ND	-	V,Pb
05/29/1999	FMETL	ND	ND	1.70	1.29	ND	26.34	ND	1.04	-	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	8.98	ND	ND	-	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	ND	13.08	ND	ND	-	V,Pb
02/14/2000	FMETL	1.22	ND	ND	ND	ND	3.78	ND	ND	-	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	9.35	ND	ND	-	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	5.36	ND	ND	-	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	20.24	ND	ND	-	V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	1.96	ND	ND	-	V,Pb
05/08/2001	FMETL	0.96	ND	ND	ND	ND	11.95	ND	ND	-	V, Pb
08/15/2001	FMETL	ND	ND	ND	ND	67.42	17.8	ND	ND	-	V, Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 08/15/2001

NOTES:

Page 1 of 2.

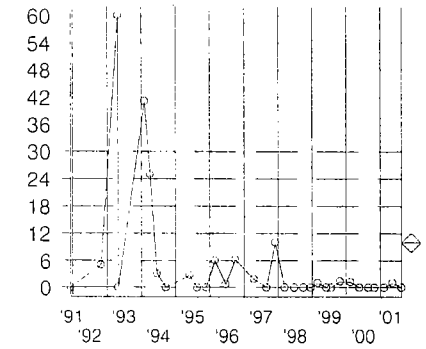
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

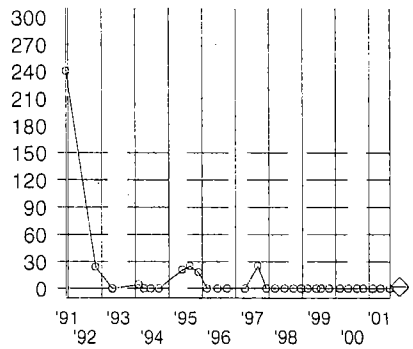
Source 3 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

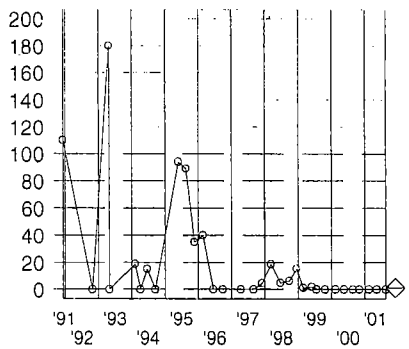
LEAD
(ug/L)



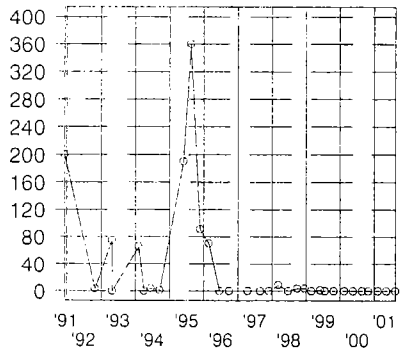
METHYLENE CHLORIDE
(ug/L)



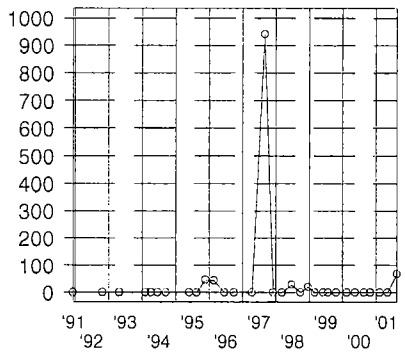
BENZENE
(ug/L)



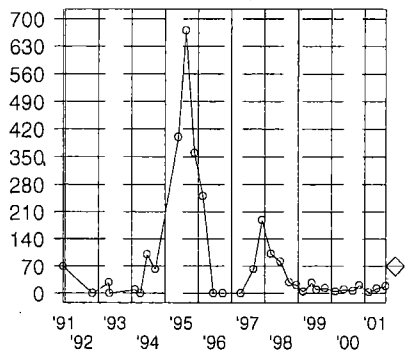
XYLENE
(ug/L)



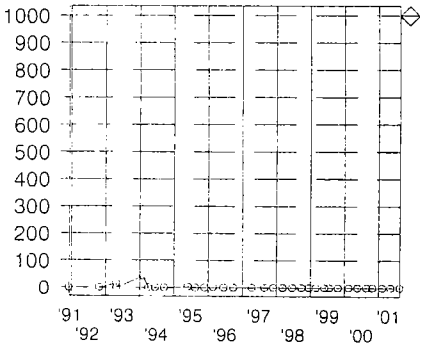
TERT-BUTYL ALCOHOL
(ug/L)



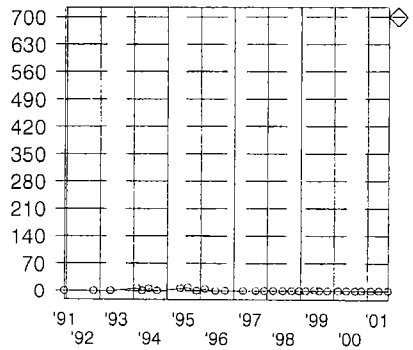
METHYL TERT-BUTYL ETHER
(ug/L)



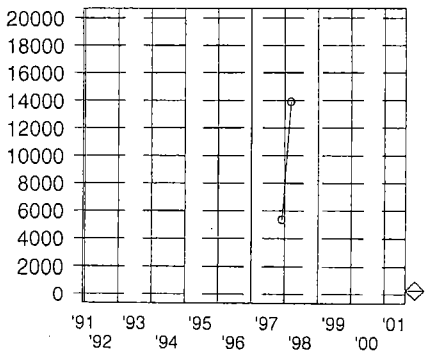
TOLUENE
(ug/L)



ETHYLBENZENE
(ug/L)



Iron
(ug/L)



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 08/15/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Manganese	Sodium	Depth to Water							NOTES
Units:	-	ug/L	ug/L	Feet							-
NJDEP Criteria:	-	50	50000	-							-
12/10/1991	ENV PRO	-	-	-							-
10/26/1992	ENV PRO	-	-	-							-
04/21/1993	ENV PRO	-	-	-							-
04/28/1993	21st CEN	-	-	-							BNA Only
02/03/1994	21st CEN	-	-	-							-
03/31/1994	21st CEN	-	-	-							-
06/14/1994	21st CEN	-	-	-							-
09/15/1994	21st CEN	-	-	-							-
05/25/1995	EMSL	-	-	-							-
08/15/1995	EMSL	-	-	-							-
11/21/1995	EMSL	-	-	-							-
02/20/1996	EMSL	-	-	-							-
06/13/1996	FMETL	-	-	-							-
09/27/1996	FMETL	-	-	-							-
04/11/1997	FMETL	-	-	3.15							V,Pb
08/28/1997	FMETL	-	-	4.00							V,Pb
12/02/1997	FMETL	56.6	26900	3.10							V,S,P,M
03/04/1998	FMETL	144	39600	2.48							V,S,P,M
06/19/1998	FMETL	-	-	3.99							V,Pb
09/25/1998	FMETL	-	-	4.56							V,Pb
12/16/1998	FMETL	-	-	4.25							V,Pb
02/24/1999	FMETL	-	-	3.16							V,Pb
05/29/1999	FMETL	-	-	3.55							V,Pb
07/21/1999	FMETL	-	-	4.85							V,Pb
10/21/1999	FMETL	-	-	3.93							V,Pb
02/14/2000	FMETL	-	-	3.42							V,Pb
05/15/2000	FMETL	-	-	3.40							V,Pb
08/22/2000	FMETL	-	-	3.17							V,Pb
11/01/2000	FMETL	-	-	3.56							V,Pb
02/09/2001	FMETL	-	-	2.50							V,Pb
05/08/2001	FMETL	-	-	3.40							V, Pb
08/15/2001	FMETL	-	-	4.30							V, Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 08/15/2001

NOTES:

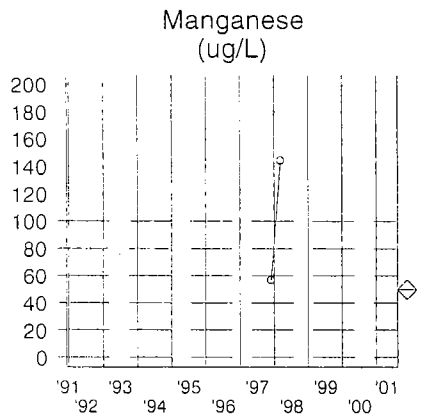
Page 2 of 2.

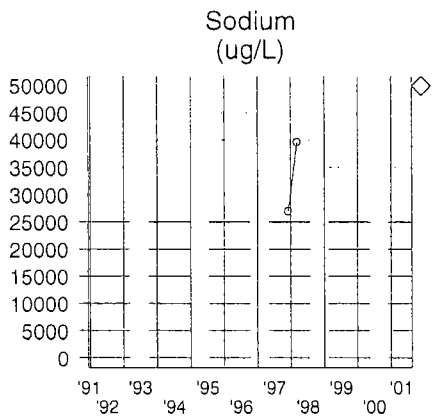
FORT MONMOUTH

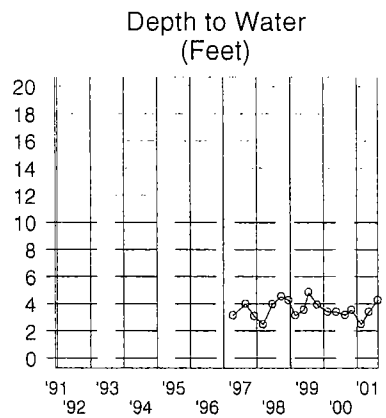
GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 08/15/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	Iron	Manganese	Sodium	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	2	300	50	50000	-				-
12/10/1991	EMSL	5	ND	-	-	-	-				-
10/26/1992	ENV PRO	ND	27	-	-	-	-				-
04/21/1993	ENV PRO	ND	ND	-	-	-	-				-
04/28/1993	21st CEN	ND	ND	-	-	-	-				BNA Only
02/03/1994	21st CEN	ND	5.0	-	-	-	-				-
03/31/1994	21st CEN	ND	2.3	-	-	-	-				-
06/14/1994	21st CEN	ND	ND	-	-	-	-				-
09/15/1994	21st CEN	ND	ND	-	-	-	-				-
05/25/1995	EMSL	ND	1.0	-	-	-	-				-
08/15/1995	EMSL	2.6	1.3	-	-	-	-				-
11/21/1995	EMSL	ND	0.6	-	-	-	-				-
02/20/1996	EMSL	ND	1.2	-	-	-	-				-
06/13/1996	FMETL	1.8	ND	-	-	-	-				-
09/27/1996	FMETL	ND	ND	-	-	-	-				-
04/11/1997	FMETL	2.3	ND	-	-	-	2.55				V,Pb
08/28/1997	FMETL	ND	ND	-	-	-	3.20				V,Pb
12/02/1997	FMETL	9.0	ND	3590	90	15600	2.45				V,S,P,M
03/04/1998	FMETL	ND	ND	4200	79	12600	2.11				V,S,P,M
06/19/1998	FMETL	ND	ND	-	-	-	2.33				V,Pb
09/24/1998	FMETL	ND	ND	-	-	-	3.55				V,Pb
12/12/1998	FMETL	ND	ND	-	-	-	3.11				V,Pb
02/24/1999	FMETL	ND	ND	-	-	-	2.44				V,Pb
05/29/1999	FMETL	ND	ND	-	-	-	2.76				V,Pb
07/21/1999	FMETL	ND	ND	-	-	-	3.98				V,Pb
10/21/1999	FMETL	1.2	ND	-	-	-	2.37				V,Pb
02/14/2000	FMETL	1.4	ND	-	-	-	1.69				V,Pb
05/15/2000	FMETL	ND	ND	-	-	-	2.65				V,Pb
05/15/2000D	FMETL	ND	ND	-	-	-	2.65				V,Pb
08/22/2000	FMETL	ND	ND	-	-	-	2.49				V,Pb
08/22/2000D	FMETL	ND	ND	-	-	-	2.49				V,Pb
11/01/2000	FMETL	ND	ND	-	-	-	2.91				V,Pb
02/09/2001	FMETL	ND	ND	-	-	-	1.99				V,Pb
02/09/2001D	FMETL	ND	ND	-	-	-	1.99				V,Pb
05/08/2001	FMETL	ND	ND	-	-	-	2.68				V, Pb
05/08/2001D	FMETL	1.26	ND	-	-	-	2.68				V, Pb
08/15/2001	FMETL	2.2	ND	-	-	-	3.50				V, Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 08/15/2001

NOTES:

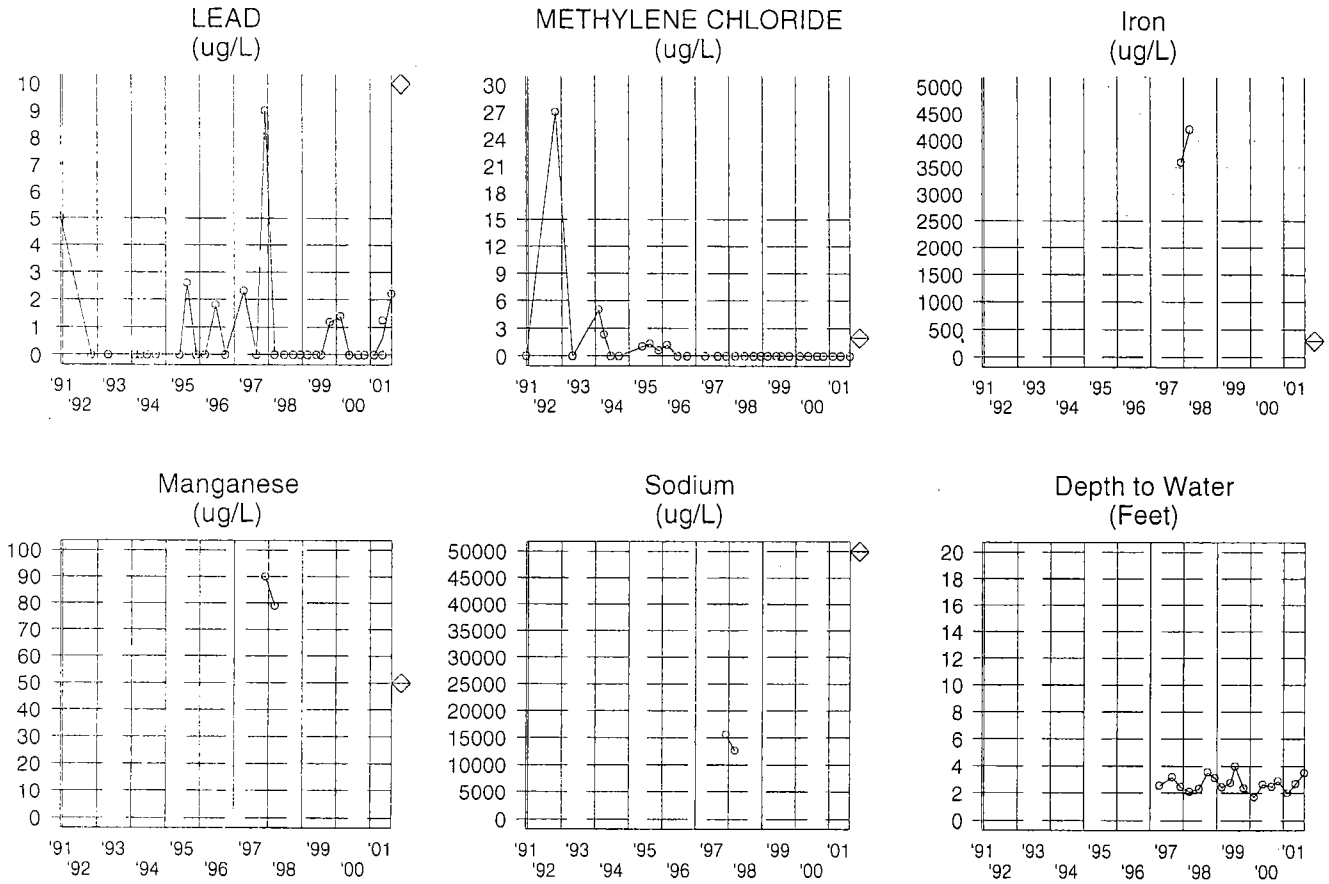
Page 1 of 1.

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 08/15/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	Iron	Manganese	Sodium	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	2	300	50	50000	-				-
05/25/1995	EMSL	4.0	1.2	-	-	-	-				-
08/15/1995	EMSL	ND	1.2	-	-	-	-				-
11/21/1995	EMSL	ND	ND	-	-	-	-				-
02/20/1996	EMSL	ND	0.8	-	-	-	-				-
09/27/1996	FMETL	ND	ND	-	-	-	-				-
04/11/1997	FMETL	2.7	ND	-	-	-	7.20				V,Pb
08/28/1997	FMETL	ND	ND	-	-	-	7.50				V,Pb
12/02/1997	FMETL	7.0	ND	19200	100	10500	7.20				V,S,P,M
03/04/1998	FMETL	ND	ND	16400	56	9100	7.30				V,S,P,M
06/01/1998	FMETL	ND	ND	-	-	-	7.55				V,Pb
09/25/1998	FMETL	ND	ND	-	-	-	7.59				V,Pb
12/16/1998	FMETL	ND	ND	-	-	-	7.34				V,Pb
02/24/1999	FMETL	ND	ND	-	-	-	8.16				V,Pb
06/08/1999	FMETL	ND	ND	-	-	-	7.33				V,Pb
07/21/1999	FMETL	ND	ND	-	-	-	7.87				V,Pb
10/21/1999	FMETL	4.4	ND	-	-	-	8.57				V,Pb
02/14/2000	FMETL	1.21	ND	-	-	-	5.75				V,Pb
05/15/2000	FMETL	ND	ND	-	-	-	6.92				V,Pb
08/22/2000	FMETL	1.6	ND	-	-	-	6.73				V,Pb
11/01/2000	FMETL	2.4	ND	-	-	-	7.16				V,Pb
02/09/2001	FMETL	ND	ND	-	-	-	5.26				V,Pb
05/08/2001	FMETL	4.53	ND	-	-	-	7.47				V, Pb
08/15/2001	FMETL	8.4	ND	-	-	-	7.70				V, Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 08/15/2001

NOTES:

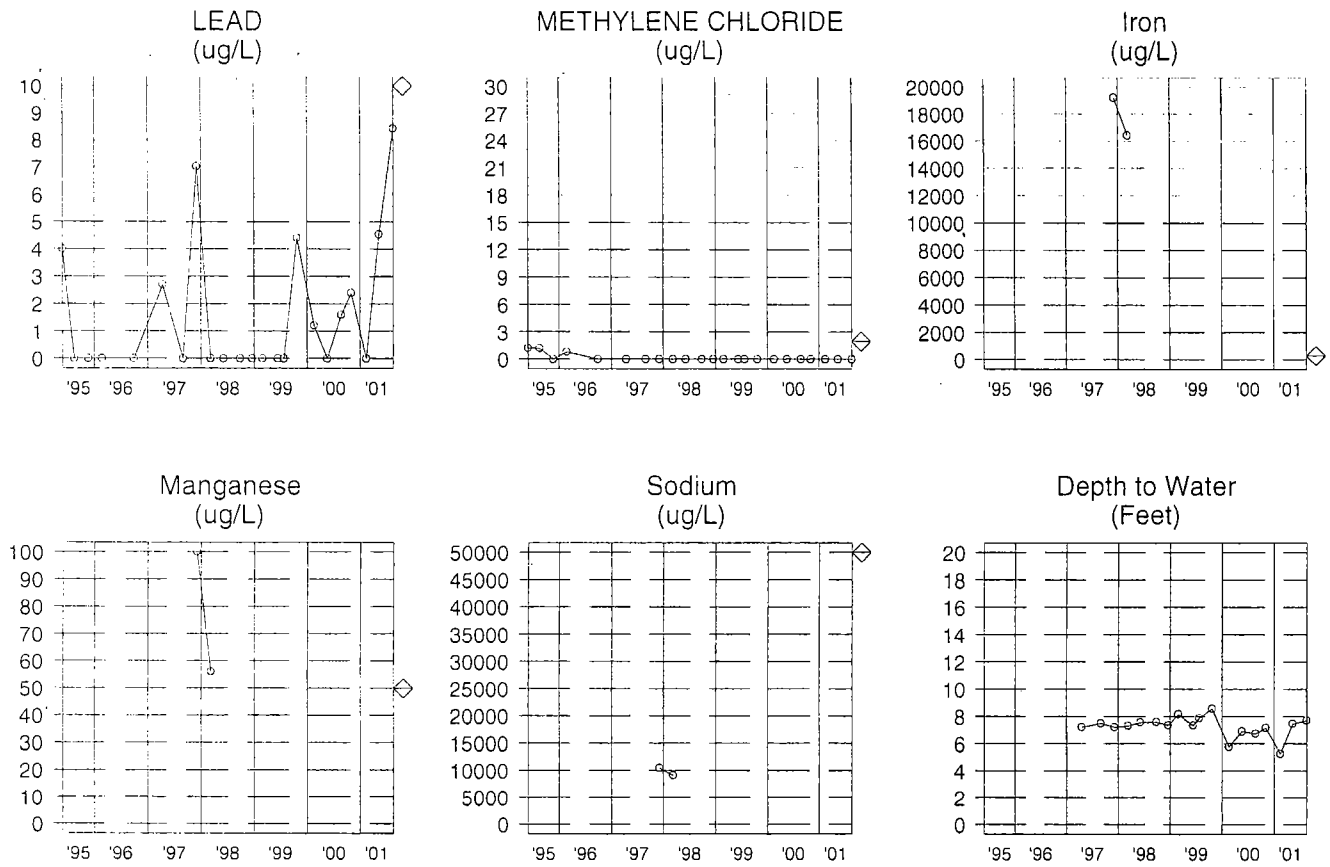
Page 1 of 1.

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 08/15/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	ACETONE	Depth to Water							NOTES
Units:	-	ug/L	ug/L	Feet							-
NJDEP Criteria:	-	10	700	-							-
08/22/2000	FMETL	ND	4.02	7.06							V,Pb
11/01/2000	FMETL	ND	ND	7.26							V,Pb
02/09/2001	FMETL	ND	ND	6.44							V,Pb
05/08/2001	FMETL	1.48	ND	7.42							V, Pb
08/15/2001	FMETL	ND	ND	8.15							V, Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 08/15/2001

NOTES:

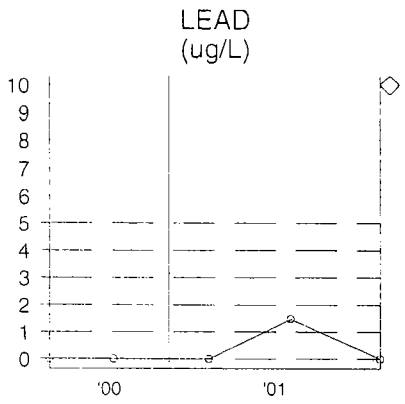
Page 1 of 1

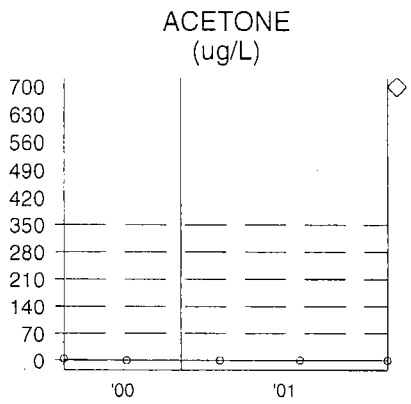
FORT MONMOUTH

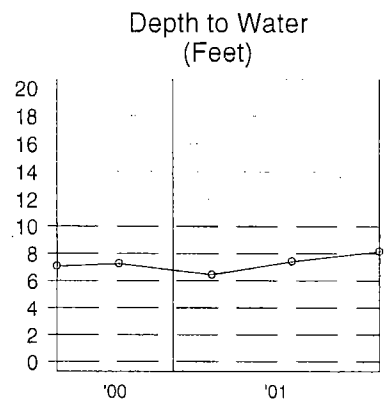
GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 08/15/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Depth to Water									NOTES
Units:	-	Feet									-
NJDEP Criteria:	-	-									-
08/22/2000	FMETL	6.65									V,Pb
11/02/2000	FMETL	6.80									V,Pb
02/09/2001	FMETL	6.23									V,Pb
05/08/2001	FMETL	7.02									V, Pb
08/15/2001	FMETL	7.75									V, Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 08/15/2001

NOTES:

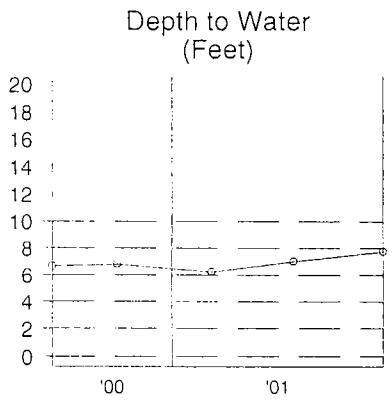
Page 1 of 1

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 08/15/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-14-2001 x:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-4359 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567 #19

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
1657304	2567MW01	29-26925	11/09/01
1657305	2567MW02	29-26926	11/09/01
1657306	2567MW03	29-26947	11/09/01
1657307	2567MW04	29-26948	11/09/01
1657308	2567MW05	29-31783	11/09/01
1657309	2567MW06	29-42585	11/09/01
1657310	2567MW07	29-42586	11/09/01

NJDEP Laboratory Certification # 13461

11-20-01
Daniel Wright/Date
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: 532 6223
( )DERA ( )OMA ( )Other:

Project No:
Location: 2567 wells
4th Qtr '01

Samplers Name / Company: Corey McCormack, TVS

Comments: HCL/HNO3/4°C

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	VOTS	Pb						Hg Bead	Remarks / Preservation Method
16573 01	Trip	11/9/01	0750	AQ	2	✓							—	
02	Field Blank		0915		~~3~~ 3	✓	✓						—	
03	Dupe		—		3	✓	✓						—	
04	2567 mw01		1010		3	✓	✓						0.9	29-26925
05	2567 mw02 *		1005			✓	✓						0.0	29-26926
06	2567 mw03		1015			✓	✓						7.2	29-26947
07	2567 mw04		1020			✓	✓						0.0	29-26948
08	2567 mw05		1127			✓	✓						0.0	29-31783
09	2567 mw06		1024			✓	✓						0.0	29-42585
10	2567 mw07		1028			✓	✓						0.0	29-42586

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	11/9/01 1135	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks: Tide: N/A

print legibly

Coc.xls10/17/01

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/09/01
WEATHER: Sunny, cold and windy.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.11 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.99 ft
(7.99) X .65 X 3 = 15.58
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.9 ppm

PURGE START TIME: 09:00
pH 6.54 su
TEMP 18.57 °C
DISSOLVED O2 1.85 mg/L
SPECIFIC CONDUCTIVITY 65/60 ms/cm

PURGE END TIME: 10:09
pH 6.55 su
TEMP 18.90 °C
DISSOLVED O2 1.44 mg/L
SPECIFIC CONDUCTIVITY 66.16 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 6.65 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 10:10
pH 6.55 su
TEMP 18.91 °C
DISSOLVED O2 1.40 mg/L
SPECIFIC CONDUCTIVITY 66.19 ms/cm

SAMPLE END TIME: 10:13

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/09/01
WEATHER: Sunny, cold and windy.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.81 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.39 ft
(7.39) X .65 X 3 = 14.41
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:03
pH 6.31 su TEMP 18.13 °C
DISSOLVED O2 1.05 mg/L SPECIFIC CONDUCTIVITY 37.00 ms/cm

PURGE END TIME: 10:04
pH 6.30 su TEMP 18.42 °C
DISSOLVED O2 0.77 mg/L SPECIFIC CONDUCTIVITY 36.71 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.34 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 10:05
pH 6.29 su TEMP 18.43 °C
DISSOLVED O2 0.73 mg/L SPECIFIC CONDUCTIVITY 36.61 ms/cm

SAMPLE END TIME: 10:07

COMMENTS: DUP. Here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/09/01
WEATHER: Sunny, cold and windy.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.30 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.20 ft
(8.20) X .65 X 3 = 15.99
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 7.2 ppm

PURGE START TIME: 09:05
pH 6.39 su TEMP 18.18 °C
DISSOLVED O2 1.79 mg/L SPECIFIC CONDUCTIVITY 40.19 ms/cm

PURGE END TIME: 10:14
pH 6.38 su TEMP 18.10 °C
DISSOLVED O2 0.56 mg/L SPECIFIC CONDUCTIVITY 41.12 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.27 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 10:15
pH 6.39 su TEMP 18.09 °C
DISSOLVED O2 0.41 mg/L SPECIFIC CONDUCTIVITY 41.13 ms/cm

SAMPLE END TIME: 10:19

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/09/01
WEATHER: Sunny, cold and windy.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.65 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.01 ft
(8.01) X .65 X 3 = 15.61
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:10
pH 5.77 su TEMP 16.54 °C
DISSOLVED O2 1.51 mg/L SPECIFIC CONDUCTIVITY 31.26 ms/cm

PURGE END TIME: 10:19
pH 5.73 su TEMP 16.71 °C
DISSOLVED O2 1.16 mg/L SPECIFIC CONDUCTIVITY 31.24 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.93 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 10:20
pH 5.72 su TEMP 16.75 °C
DISSOLVED O2 1.16 mg/L SPECIFIC CONDUCTIVITY 31.22 ms/cm

SAMPLE END TIME: 10:23

COMMENTS: Low downdrain.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/09/01
WEATHER: Sunny, cold and windy.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.83 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 6.92 ft
(6.92) X .65 X 3 = 13.49
GALLONS OF H2O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:30
pH 6.66 su TEMP 17.91 °C
DISSOLVED O2 1.97 mg/L SPECIFIC CONDUCTIVITY 37.12 ms/cm

PURGE END TIME: 11:26
pH 6.53 su TEMP 17.87 °C
DISSOLVED O2 0.89 mg/L SPECIFIC CONDUCTIVITY 35.21 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.11 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 13 gal

SAMPLE START TIME: 11:27
pH 6.54 su TEMP 17.86 °C
DISSOLVED O2 0.87 mg/L SPECIFIC CONDUCTIVITY 35.22 ms/cm

SAMPLE END TIME: 11:33

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/09/01
WEATHER: Sunny, cold and windy.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 8.09 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.65 ft
(7.65) X .65 X 3 = 14.91
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:13
pH 6.85 su TEMP 13.82 °C
DISSOLVED O2 1.99 mg/L SPECIFIC CONDUCTIVITY 12.08 ms/cm

PURGE END TIME: 10:18
pH 6.36 su TEMP 13.83 °C
DISSOLVED O2 0.91 mg/L SPECIFIC CONDUCTIVITY 11.97 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.97 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 10:24
pH 6.35 su TEMP 13.81 °C
DISSOLVED O2 0.89 mg/L SPECIFIC CONDUCTIVITY 11.95 ms/cm

SAMPLE END TIME: 10:27

COMMENTS: Slightly cloudy.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/09/01
WEATHER: Sunny, cold and windy.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.56 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.94 ft
(8.94) X .65 X 3 = 17.43
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:11
pH 6.14 su TEMP 15.88 °C
DISSOLVED O2 1.79 mg/L SPECIFIC CONDUCTIVITY 36.33 ms/cm

PURGE END TIME: 10:25
pH 6.13 su TEMP 15.89 °C
DISSOLVED O2 0.44 mg/L SPECIFIC CONDUCTIVITY 36.51 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.75 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 10:28
pH 6.13 su TEMP 15.89 °C
DISSOLVED O2 0.42 mg/L SPECIFIC CONDUCTIVITY 36.57 ms/cm

SAMPLE END TIME: 10:31

COMMENTS:

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	:	**Method Detection Limit**
J	:	**Compound identified below detection limit**
B	:	**Compound found in blank**
D	:	**Results are from a dilution of the sample**
U	:	**Compound searched for but not detected**
E	:	**Compound exceeds calibration limit**
PQL	:	**Practical Quantitation Limit**
NLE	:	**No limit established**
RT	:	**Retention time**

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010375.D**	Sample Name	**MB**
Operator	**Skelton**	Field ID	**MB**
Date Acquired	**9 Nov 2001 12:04 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

MB

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16573 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: MB

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010375.D

Level: (low/med) LOW Date Received: 11/9/01

% Moisture: not dec. Date Analyzed: 11/9/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC007367.D**	Sample Name	**MB**
Operator	**Skelton**	Field ID	**MB**
Date Aquired	**13-Nov-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

11/14/01 3:26 PM

D:\HPCHEM\Custrpt\Volatile\624fy00.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

MB

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16573 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: MB

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC007367.D

Level: (low/med) LOW Date Received: 11/9/01

% Moisture: not dec. Date Analyzed: 11/13/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000091-20-3	Naphthalene	30.88	8	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010399.D**	Sample Name	**1657301**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**10 Nov 2001 4:45 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride	11.23	88437	3.63 ug/L	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16573 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1657301

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010399.D

Level: (low/med) LOW Date Received: 11/9/01

% Moisture: not dec. Date Analyzed: 11/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000091-20-3	Naphthalene	31.07	13	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010400.D**	Sample Name	**1657302**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**10 Nov 2001 5:26 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride	11.22	135927	6.25 ug/L	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16573 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1657302

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010400.D

Level: (low/med) LOW Date Received: 11/9/01

% Moisture: not dec. Date Analyzed: 11/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010401.D**	Sample Name	**1657303**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**10 Nov 2001 6:08 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16573 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1657303

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010401.D

Level: (low/med) LOW Date Received: 11/9/01

% Moisture: not dec. Date Analyzed: 11/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010402.D**	Sample Name	**1657304**
Operator	**Skelton**	Field ID	**2567MW01**
Date Acquired	**10 Nov 2001 6:49 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether	11.88	66824	1.09 ug/L	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW01

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16573 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1657304

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010402.D

Level: (low/med) LOW Date Received: 11/9/01

% Moisture: not dec. Date Analyzed: 11/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010403.D**	Sample Name	**1657305**
Operator	**Skelton**	Field ID	**2567MW02**
Date Acquired	**10 Nov 2001 7:30 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW02

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16573 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1657305

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010403.D

Level: (low/med) LOW Date Received: 11/9/01

% Moisture: not dec. Date Analyzed: 11/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010404.D**	Sample Name	**1657306**
Operator	**Skelton**	Field ID	**2567MW03**
Date Acquired	**10 Nov 2001 8:11 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether	11.89	333873	5.51 ug/L	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW03

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16573 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1657306

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010404.D

Level: (low/med) LOW Date Received: 11/9/01

% Moisture: not dec. Date Analyzed: 11/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.38	49	JN
2. 000109-66-0	Pentane	7.22	12	JN
3.	unknown	8.64	4	J
4.	unknown	10.44	6	J
5.	unknown	11.59	16	J
6. 000110-82-7	Cyclohexane	15.25	52	JN
7. 000110-82-7	Cyclohexane	17.52	14	JN
8. 000098-82-8	Benzene, (1-methylethyl)-	29.72	11	JN
9. 000103-65-1	Benzene, propyl-	30.71	10	JN
10. 000496-11-7	Indane	33.87	24	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010405.D**	Sample Name	**1657307**
Operator	**Skelton**	Field ID	**2567MW04**
Date Acquired	**10 Nov 2001 8:52 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **2567MW04**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16573 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1657307

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010405.D

Level: (low/med) LOW Date Received: 11/9/01

% Moisture: not dec. Date Analyzed: 11/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010406.D**	Sample Name	**1657308**
Operator	**Skelton**	Field ID	**2567MW05**
Date Acquired	**10 Nov 2001 9:33 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

C:\HPCHEM\Custrpt\Volatile\624fy01.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW05

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16573 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1657308

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010406.D

Level: (low/med) LOW Date Received: 11/9/01

% Moisture: not dec. _____ Date Analyzed: 11/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010407.D**	Sample Name	**1657309**
Operator	**Skelton**	Field ID	**2567MW06**
Date Acquired	**10 Nov 2001 10:14 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW06

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16573 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1657309

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010407.D

Level: (low/med) LOW Date Received: 11/9/01

% Moisture: not dec. _____ Date Analyzed: 11/10/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC007368.D**	Sample Name	**1657310**
Operator	**Skelton**	Field ID	**2507MW07**
Date Aquired	**13-Nov-01**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW07

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 16573 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1657310

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC007368.D

Level: (low/med) LOW Date Received: 11/9/01

% Moisture: not dec. _____ Date Analyzed: 11/13/01

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 16573
Sample Received: NA
Analysis Start: 11/14/01
Analysis Completed: 11/14/01

Site: Ft. Monmouth
2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 1657302-10
Sample Received: 11/09/01
Analysis Start: 11/14/01
Analysis Completed: 11/14/01

Site: Ft. Monmouth
2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
1657302	Field Blank	ND	10	0.8
1657303	Dupe	ND	10	0.8
1657304	2567MW01	ND	10	0.8
1657305	2567MW02	ND	10	0.8
1657306	2567MW03	ND	10	0.8
1657307	2567MW04	ND	10	0.8
1657308	2567MW05	9.7	10	0.8
1657309	2567MW06	ND	10	0.8
1657310	2567MW07	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	TRI-CHLORO-ETHENE	TETRA-CHLORO-ETHENE	Depth to Water	NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet	-
NJDEP Criteria:	-	10	2	1	NLE	NLE	70	1	1	-	-
12/10/1991	ENV PRO	4	240	2400	42	4400	2200	ND	ND	-	-
10/26/1992	ENV PRO	ND	420	2800	302	5400	1200	32	51	-	-
10/26/1992D	ENV PRO	ND	130	3200	57	7000	1500	ND	ND	-	-
04/21/1993	21st CEN	70	16	520	ND	470	890	ND	ND	-	-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	ND	-	BNA Only
02/03/1994	21st CEN	ND	26	21	41	28	650	ND	ND	-	-
03/31/1994	21st CEN	ND	ND	ND	ND	22	10	ND	ND	-	-
06/14/1994	21st CEN	ND	ND	ND	ND	120	88	ND	ND	-	-
09/15/1994	21st CEN	ND	ND	ND	ND	600	56	ND	ND	-	-
05/25/1995	EMSL	ND	1.5	ND	ND	930	110	ND	ND	-	-
08/15/1995	EMSL	3.3	1.3	ND	ND	930	29	ND	ND	-	-
11/21/1995	EMSL	ND	36	ND	ND	860	80	ND	ND	-	-
02/20/1996	EMSL	4	2.1	ND	ND	780	100	ND	ND	-	-
06/13/1996	FMETL	1.2	ND	ND	ND	ND	ND	ND	ND	-	-
09/27/1996	FMETL	ND	ND	ND	ND	ND	ND	ND	ND	-	-
04/11/1997	FMETL	2.5	ND	ND	ND	ND	ND	ND	ND	3.80	V,Pb
08/28/1997	FMETL	1.4	ND	39.4	72.7	ND	240	ND	ND	4.80	V,Pb
12/02/1997	FMETL	7.0	ND	ND	ND	357	20.3	ND	ND	3.90	V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	560	37	ND	ND	3.51	V,S,P,M
06/01/1998	FMETL	0.5	ND	ND	ND	95.63	24.23	ND	ND	4.06	V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	283	10.02	ND	ND	5.21	V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	143.26	3.43	ND	ND	4.90	V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	675	26.15	ND	ND	3.75	V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	605.1	9.16	ND	ND	4.20	V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	155.56	3.33	ND	ND	5.48	V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	497.3	4.8	ND	ND	4.03	V,Pb
02/14/2000	FMETL	1.31	ND	ND	ND	992	8.2	ND	ND	3.31	V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	458.88	5.24	ND	ND	4.04	V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	218.42	1.20	ND	ND	3.87	V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	15.04	ND	ND	4.24	V,Pb
11/01/2000D	FMETL	ND	ND	ND	ND	ND	15.33	ND	ND	4.24	V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	1488.05	4.83	ND	ND	3.30	V,Pb
05/08/2001	FMETL	0.93	ND	ND	ND	764.25	2.10	ND	ND	4.15	V, Pb
08/15/2001	FMETL	ND	ND	ND	ND	248.74	ND	ND	ND	4.95	V, Pb
08/15/2001D	FMETL	ND	ND	ND	ND	457.64	1.54	ND	ND	4.95	V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	ND	1.09	ND	ND	5.11	V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 11/09/2001

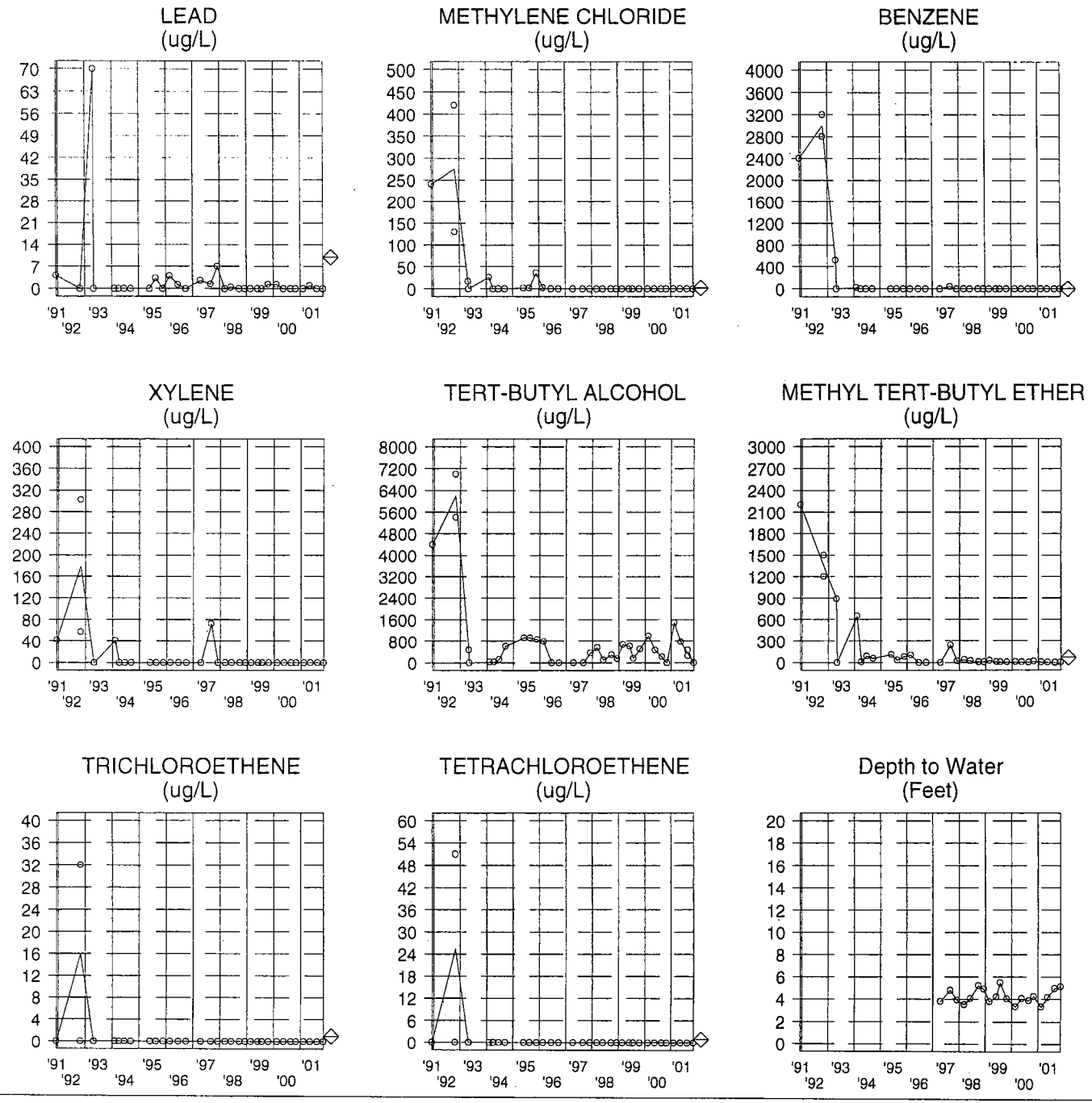
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 11/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	XYLENE	MTBE	ETHYL-BENZENE	NAPTH-ALENE	Depth to Water			NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet			-
NJDEP Criteria:	-	10	2	NLE	70	700	NLE	-			-
12/10/1991	ENV PRO	ND	7	ND	ND	ND	ND	-			-
10/26/1992	ENV PRO	11	23	3	ND	ND	ND	-			-
04/21/1993	ENV PRO	ND	ND	2.0	ND	ND	ND	-			-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	-			BNA Only
02/03/1994	21st CEN	260	4.0	43	7.0	7.4	ND	-			-
03/31/1994	21st CEN	ND	17	2.5	11	ND	ND	-			-
06/14/1994	21st CEN	ND	ND	3.0	11	1.1	ND	-			-
09/15/1994	21st CEN	ND	ND	5.5	4.1	1.2	ND	-			-
05/25/1995	EMSL	ND	0.9	6.5	3.1	0.8	11	-			-
08/15/1995	EMSL	5.6	1.3	5.3	2.5	ND	11	-			-
11/21/1995	EMSL	ND	0.6	3.6	1.6	ND	7.3	-			-
02/20/1996	EMSL	ND	2.0	4.2	2	ND	7.2	-			-
06/13/1996	FMETL	ND	ND	ND	ND	ND	ND	-			-
09/27/1996	FMETL	1.2	ND	ND	ND	ND	ND	-			-
04/11/1997	FMETL	10.7	ND	ND	ND	ND	ND	3.40			V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	ND	4.30			V,Pb
12/02/1997	FMETL	20	ND	ND	ND	ND	4.79	3.45			V,S,P,M
03/04/1998	FMETL	8.0	ND	ND	ND	ND	1.67	2.92			V,S,P,M
06/01/1998	FMETL	1.4	ND	ND	ND	ND	-	3.59			V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	-	4.73			V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	-	3.42			V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	-	3.38			V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	-	3.83			V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	-	5.03			V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	-	3.65			V,Pb
02/14/2000	FMETL	1.49	ND	ND	ND	ND	-	3.00			V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	-	3.77			V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	-	3.51			V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	-	4.15			V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	ND	2.75			V,Pb
05/08/2001	FMETL	1.02	ND	ND	ND	ND	ND	3.95			V, Pb
08/15/2001	FMETL	ND	ND	ND	ND	ND	ND	4.65			V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	ND	ND	4.81			V, Pb
11/09/2001D	FMETL	ND	ND	ND	ND	ND	ND	4.81			V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 11/09/2001

NOTES:

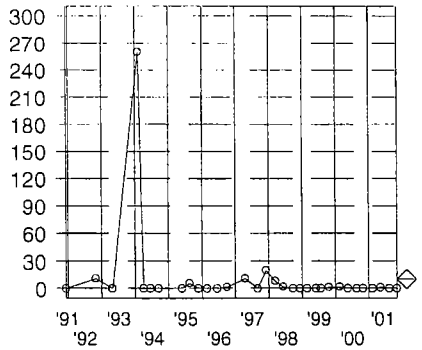
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

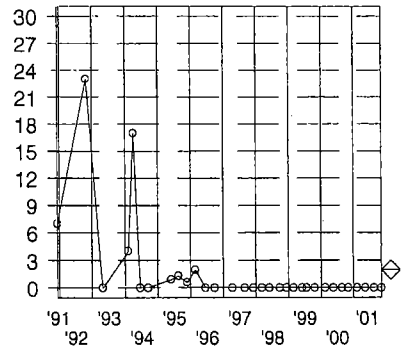
Source 2 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

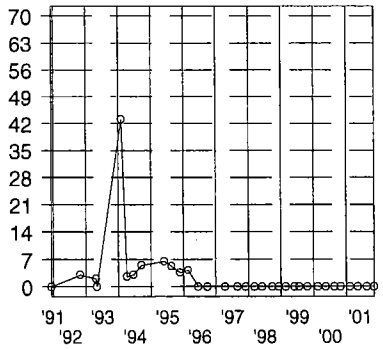
LEAD
(ug/L)



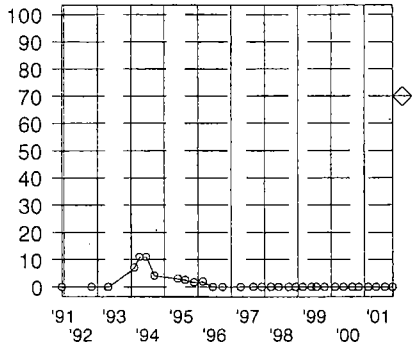
METHYLENE CHLORIDE
(ug/L)



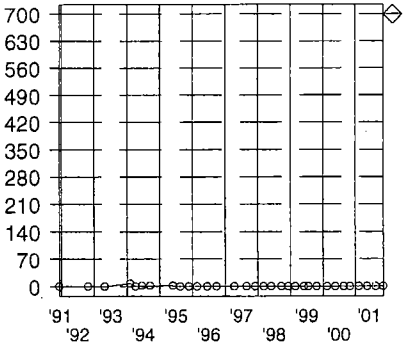
XYLENE
(ug/L)



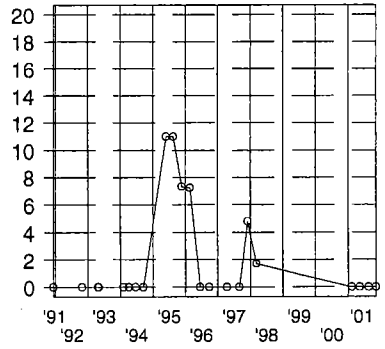
METHYL TERT-BUTYL ETHER
(ug/L)



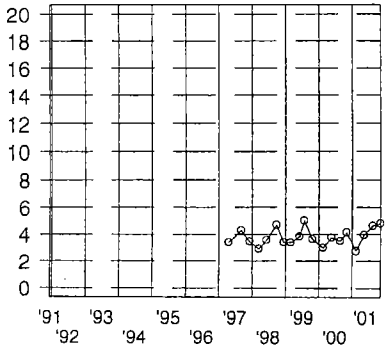
ETHYLBENZENE
(ug/L)



NAPHTHALENE
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 11/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	ETHYL-BENZENE	Depth to Water		NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Feet		-
NJDEP Criteria:	-	10	2	1	NLE	NLE	70	700	-		-
12/10/1991	ENV PRO	ND	240	110	200	ND	69	ND	-		-
10/26/1992	ENV PRO	5	24	ND	3	ND	ND	ND	-		-
04/21/1993	ENV PRO	60	ND	180	74.2	ND	27	ND	-		-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	ND	ND	-		BNA Only
02/03/1994	21st CEN	41	4.4	19	65	ND	9.1	7.0	-		-
03/31/1994	21st CEN	25	ND	ND	ND	ND	ND	ND	-		-
06/14/1994	21st CEN	3	ND	15	3.4	ND	100	5.4	-		-
09/15/1994	21st CEN	ND	ND	ND	1.4	ND	61	ND	-		-
05/25/1995	EMSL	2.7	21	94	190	ND	400	6.3	-		-
08/15/1995	EMSL	ND	25	89	360	ND	670	8.4	-		-
11/21/1995	EMSL	ND	18	35	91	46	360	ND	-		-
02/20/1996	EMSL	6	ND	40	70	43	250	4.5	-		-
06/13/1996	FMETL	0.7	ND	ND	ND	ND	ND	ND	-		-
09/27/1996	FMETL	6.2	ND	ND	ND	ND	ND	ND	-		-
04/11/1997	FMETL	1.8	ND	ND	ND	ND	ND	ND	3.15		V,Pb
08/28/1997	FMETL	ND	25	ND	ND	940	62	ND	4.00		V,Pb
12/02/1997	FMETL	10	ND	4.31	ND	ND	188	ND	3.10		V,S,P,M
03/04/1998	FMETL	ND	ND	19	8.6	ND	102	ND	2.48		V,S,P,M
06/19/1998	FMETL	ND	ND	4.68	ND	27.52	81.82	ND	3.99		V,Pb
09/25/1998	FMETL	ND	ND	5.96	3.62	ND	27.27	ND	4.56		V,Pb
12/16/1998	FMETL	ND	ND	15.45	3.67	19.38	20.54	ND	4.25		V,Pb
02/24/1999	FMETL	1.0	ND	1.03	ND	ND	3.3	ND	3.16		V,Pb
05/29/1999	FMETL	ND	ND	1.70	1.29	ND	26.34	1.04	3.55		V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	8.98	ND	4.85		V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	ND	13.08	ND	3.93		V,Pb
02/14/2000	FMETL	1.22	ND	ND	ND	ND	3.78	ND	3.42		V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	9.35	ND	3.40		V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	5.36	ND	3.17		V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	20.24	ND	3.56		V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	1.96	ND	2.50		V,Pb
05/08/2001	FMETL	0.96	ND	ND	ND	ND	11.95	ND	3.40		V, Pb
08/15/2001	FMETL	ND	ND	ND	ND	67.42	17.8	ND	4.30		V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	ND	5.51	ND	4.30		V, Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 11/09/2001

NOTES:

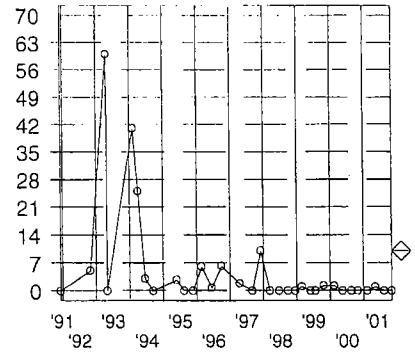
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

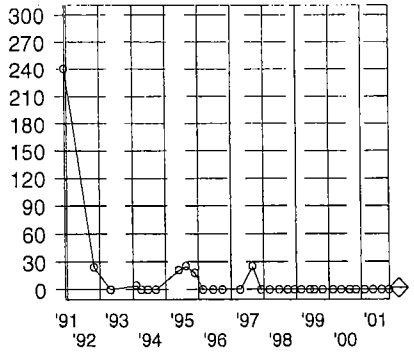
Source 3 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

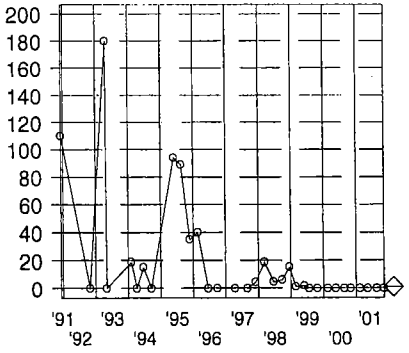
LEAD
(ug/L)



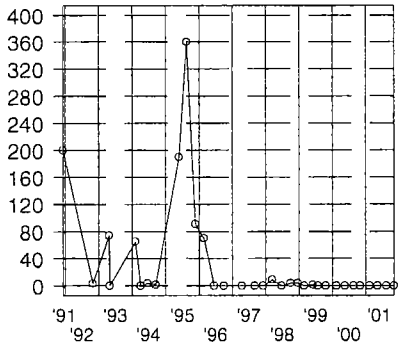
METHYLENE CHLORIDE
(ug/L)



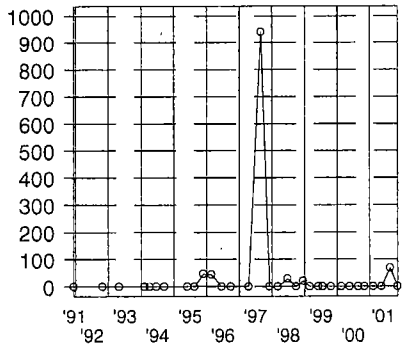
BENZENE
(ug/L)



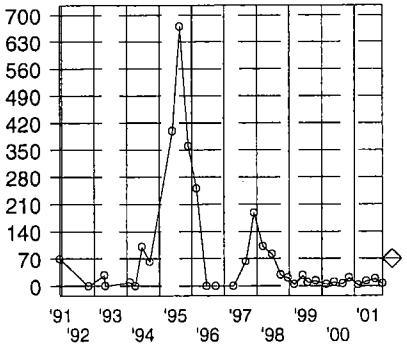
XYLENE
(ug/L)



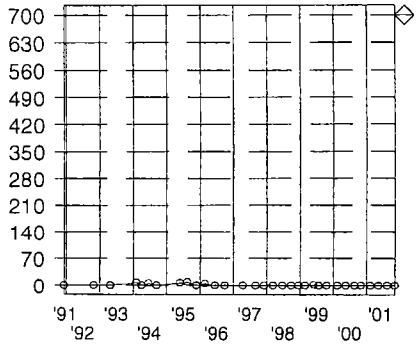
TERT-BUTYL ALCOHOL
(ug/L)



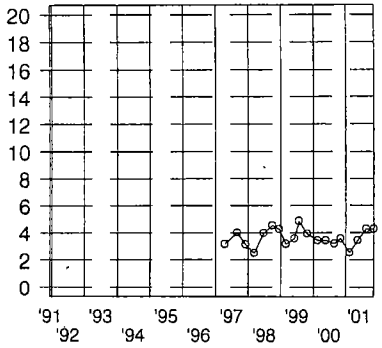
METHYL TERT-BUTYL ETHER
(ug/L)



ETHYLBENZENE
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 11/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	BENZENE	XYLENE	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	2	1	NLE	70	-				-
12/10/1991	EMSL	5	ND	ND	ND	ND	-				-
10/26/1992	ENV PRO	ND	27	ND	ND	ND	-				-
04/21/1993	ENV PRO	ND	ND	ND	ND	ND	-				-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	-				BNA Only
02/03/1994	21st CEN	ND	5.0	14	60	ND	-				-
03/31/1994	21st CEN	ND	2.3	ND	ND	1.3	-				-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	-				-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	-				-
05/25/1995	EMSL	ND	1.0	ND	ND	ND	-				-
08/15/1995	EMSL	2.6	1.3	ND	ND	ND	-				-
11/21/1995	EMSL	ND	0.6	ND	ND	ND	-				-
02/20/1996	EMSL	ND	1.2	ND	ND	ND	-				-
06/13/1996	FMETL	1.8	ND	ND	ND	-	-				-
09/27/1996	FMETL	ND	ND	ND	ND	-	-				-
04/11/1997	FMETL	2.3	ND	ND	ND	-	2.55				V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	-	3.20				V,Pb
12/02/1997	FMETL	9.0	ND	ND	ND	-	2.45				V,S,P,M
03/04/1998	FMETL	ND	ND	ND	ND	-	2.11				V,S,P,M
06/19/1998	FMETL	ND	ND	ND	ND	-	2.33				V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	-	3.55				V,Pb
12/12/1998	FMETL	ND	ND	ND	ND	-	3.11				V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	-	2.44				V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	2.76				V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	3.98				V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	2.37				V,Pb
02/14/2000	FMETL	1.4	ND	ND	ND	ND	1.69				V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	2.65				V,Pb
05/15/2000D	FMETL	ND	ND	ND	ND	ND	2.65				V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	2.49				V,Pb
08/22/2000D	FMETL	ND	ND	ND	ND	ND	2.49				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	2.91				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	1.99				V,Pb
02/09/2001D	FMETL	ND	ND	ND	ND	ND	1.99				V,Pb
05/08/2001	FMETL	ND	ND	ND	ND	ND	2.68				V, Pb
05/08/2001D	FMETL	1.26	ND	ND	ND	ND	2.68				V, Pb
08/15/2001	FMETL	2.2	ND	ND	ND	ND	3.50				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	ND	3.65				V, Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 11/09/2001

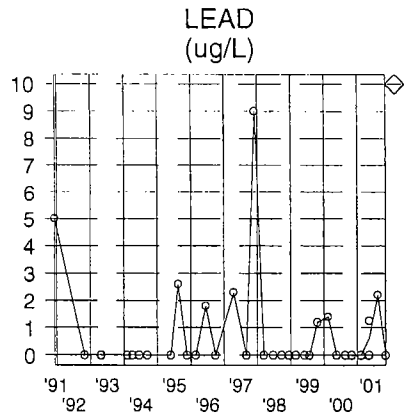
NOTES:

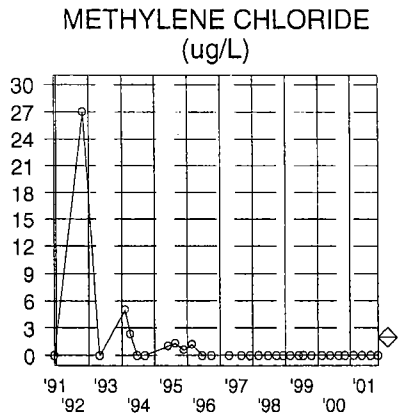
FORT MONMOUTH

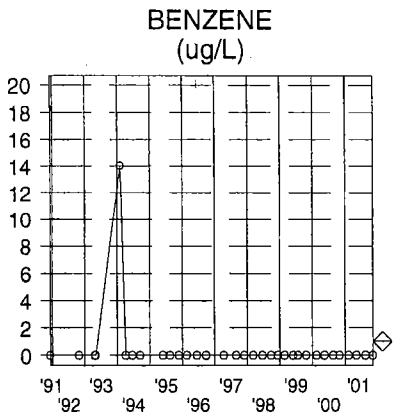
GW MONITORING
Bldg. 2567
Table / Graph A

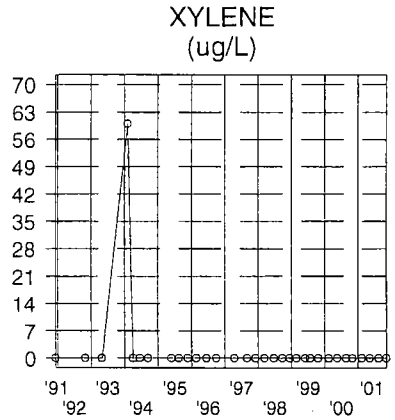
Source 4 of 7

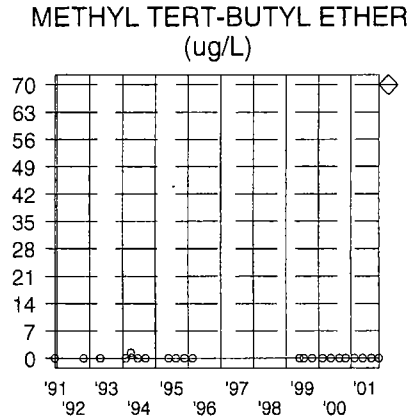
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

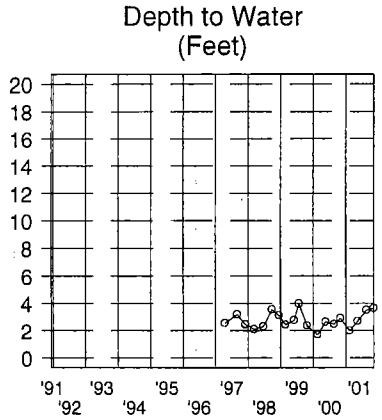












SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 11/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	METHY-LENE CHLORIDE	ACETONE	Depth to Water						NOTES
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	10	2	700	-						-
05/25/1995	EMSL	4.0	1.2	ND	-						-
08/15/1995	EMSL	ND	1.2	ND	-						-
11/21/1995	EMSL	ND	ND	ND	-						-
02/20/1996	EMSL	ND	0.8	ND	-						-
09/27/1996	FMETL	ND	ND	-	-						-
04/11/1997	FMETL	2.7	ND	-	7.20						V,Pb
08/28/1997	FMETL	ND	ND	-	7.50						V,Pb
12/02/1997	FMETL	7.0	ND	-	7.20						V,S,P,M
03/04/1998	FMETL	ND	ND	-	7.30						V,S,P,M
06/01/1998	FMETL	ND	ND	-	7.55						V,Pb
09/25/1998	FMETL	ND	ND	-	7.59						V,Pb
12/16/1998	FMETL	ND	ND	-	7.34						V,Pb
02/24/1999	FMETL	ND	ND	-	8.16						V,Pb
06/08/1999	FMETL	ND	ND	-	7.33						V,Pb
07/21/1999	FMETL	ND	ND	-	7.87						V,Pb
10/21/1999	FMETL	4.4	ND	-	8.57						V,Pb
02/14/2000	FMETL	1.21	ND	-	5.75						V,Pb
05/15/2000	FMETL	ND	ND	-	6.92						V,Pb
08/22/2000	FMETL	1.6	ND	ND	6.73						V,Pb
11/01/2000	FMETL	2.4	ND	ND	7.16						V,Pb
02/09/2001	FMETL	ND	ND	ND	5.26						V,Pb
05/08/2001	FMETL	4.53	ND	4.35	7.47						V, Pb
08/15/2001	FMETL	8.4	ND	ND	7.70						V, Pb
11/09/2001	FMETL	9.7	ND	ND	7.83						V, Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 11/09/2001

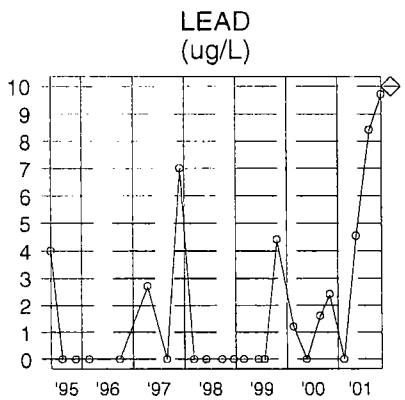
NOTES:

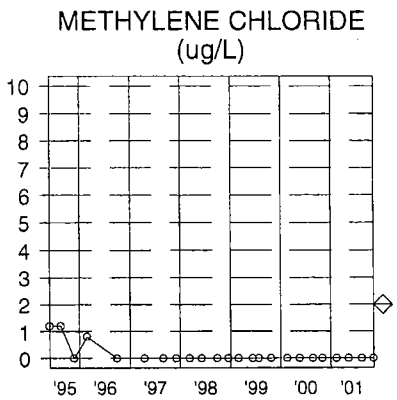
FORT MONMOUTH

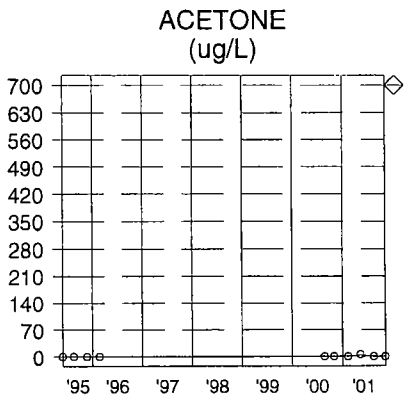
GW MONITORING
Bldg. 2567
Table / Graph A

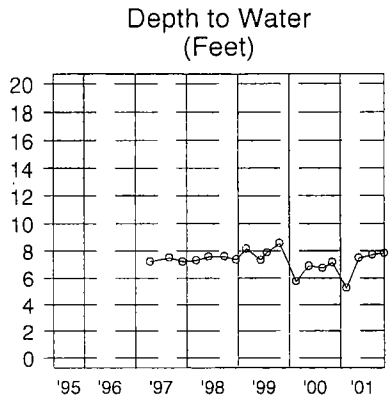
Source 5 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV









SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 11/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	ACETONE	Depth to Water							NOTES
Units:	-	ug/L	ug/L	Feet							-
NJDEP Criteria:	-	10	700	-							-
08/22/2000	FMETL	ND	4.02	7.06							V,Pb
11/01/2000	FMETL	ND	ND	7.26							V,Pb
02/09/2001	FMETL	ND	ND	6.44							V,Pb
05/08/2001	FMETL	1.48	ND	7.42							V, Pb
08/15/2001	FMETL	ND	ND	8.15							V, Pb
11/09/2001	FMETL	ND	ND	8.09							V, Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 11/09/2001

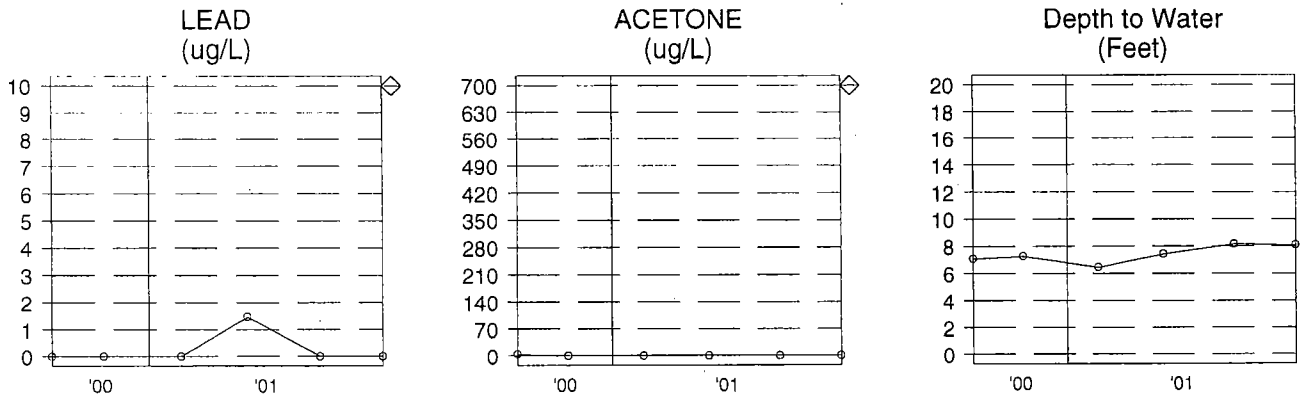
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 11/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2001 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Depth to Water									NOTES
Units:	-	Feet									-
NJDEP Criteria:	-	-									-
08/22/2000	FMETL	6.65									V,Pb
11/02/2000	FMETL	6.80									V,Pb
02/09/2001	FMETL	6.23									V,Pb
05/08/2001	FMETL	7.02									V, Pb
08/15/2001	FMETL	7.75									V, Pb
11/09/2001	FMETL	7.56									V, Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 11/09/2001

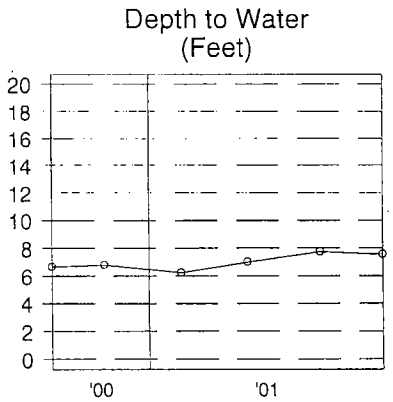
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 11/09/2001

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-16-2001 x:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-4359 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567 # 20

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
2011204	2567MW01	29-26925	02/26/02
2011205	2567MW02	29-26926	02/26/02
2011206	2567MW03	29-26947	02/26/02
2011207	2567MW04	29-26948	02/26/02
2011208	2567MW05	29-31783	02/26/02
2011209	2567MW06	29-42585	02/26/02
2011210	2567MW07	29-42586	02/26/02

NJDEP Laboratory Certification # 13461

3-21-02

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

SAMPLING

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: 842623
(X)DERA ( )OMA ( )Other:

Project No:
Location: 2567 wells
1st Qrtr '02

Samplers Name / Company: Corey McCormack, TVS

Comments: HCL/HNO3/4°C

LIMS/Work Order #		Sample Location	Date	Time	Sample Type	# bottles	VOTS	Pb						Hex Read	Remarks / Preservation Method
2011	01	Trip	2/26/02	0734	AQ	2	✓							—	
	02	Field Blank		1000		3	✓	✓						—	
	03	Dupe		—		3	✓	✓						—	
	04	2567 mw01		1124		3	✓	✓						0.1	29-26925
	05	2567 mw02		1120			✓	✓						0.0	29-26926
	06	2567 mw03		1134			✓	✓						2.7	29-26947
	07	2567 mw 04		1138			✓	✓						0.0	29-26948
	08	2567 mw 05		1314			✓	✓						0.0	29-31783
	09	2567 mw06 *		1142			✓	✓						0.0	29-42585
	10	2567 mw07		1153			✓	✓						0.0	29-42586

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	2/26/02 1455	J. Clifford			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks: Tide: N/A

print legibly

Coc.xls1/23/02

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/02
WEATHER: Sunny and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.95 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.15 ft
(9.15) X .65 X 3 = 17.84
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.9 ppm

PURGE START TIME: 10:05
pH 6.66 su TEMP 15.77 °C
DISSOLVED O2 3.11 mg/L SPECIFIC CONDUCTIVITY 67.11 ms/cm

PURGE END TIME: 11:23
pH 6.59 su TEMP 15.21 °C
DISSOLVED O2 1.71 mg/L SPECIFIC CONDUCTIVITY 66.39 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.79 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 11:24
pH 6.59 su TEMP 15.20 °C
DISSOLVED O2 1.60 mg/L SPECIFIC CONDUCTIVITY 66.30 ms/cm

SAMPLE END TIME: 11:27

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/02
WEATHER: Sunny and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.86 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.34 ft
(8.34) X .65 X 3 = 16.26
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:10
pH 6.42 su TEMP 16.71 °C
DISSOLVED O2 2.78 mg/L SPECIFIC CONDUCTIVITY 36.20 ms/cm

PURGE END TIME: 11:19
pH 6.37 su TEMP 15.88 °C
DISSOLVED O2 1.09 mg/L SPECIFIC CONDUCTIVITY 37.77 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.92 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 11:20
pH 6.36 su TEMP 15.77 °C
DISSOLVED O2 0.98 mg/L SPECIFIC CONDUCTIVITY 37.75 ms/cm

SAMPLE END TIME: 11:23

COMMENTS: Cloudy and yellow.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/02
WEATHER: Sunny and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.29 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.21 ft
(9.21) X .65 X 3 = 17.95
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 2.7 ppm

PURGE START TIME: 10:15
pH 6.51 su TEMP 16.91 °C
DISSOLVED O2 2.70 mg/L SPECIFIC CONDUCTIVITY 40.77 ms/cm

PURGE END TIME: 11:33
pH 6.41 su TEMP 16.30 °C
DISSOLVED O2 1.20 mg/L SPECIFIC CONDUCTIVITY 41.60 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.59 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 11:34
pH 6.40 su TEMP 16.30 °C
DISSOLVED O2 1.11 mg/L SPECIFIC CONDUCTIVITY 41.63 ms/cm

SAMPLE END TIME: 11:37

COMMENTS: Cloudy and yellow particles. Fuel odor.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/02
WEATHER: Sunny and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.71 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.95 ft
(8.95) X .65 X 3 = 17.45
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:20
pH 5.80 su
TEMP 16.71 °C
DISSOLVED O2 2.57 mg/L
SPECIFIC CONDUCTIVITY 33.11 ms/cm

PURGE END TIME: 11:34
pH 5.75 su
TEMP 16.20 °C
DISSOLVED O2 1.11 mg/L
SPECIFIC CONDUCTIVITY 32.01 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.13 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 11:38
pH 5.73 su
TEMP 16.17 °C
DISSOLVED O2 1.08 mg/L
SPECIFIC CONDUCTIVITY 31.97 ms/cm

SAMPLE END TIME: 11:41

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/02
WEATHER: Sunny and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.95 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.80 ft
(7.80) X .65 X 3 = 15.21
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 12:08
pH 6.70 su
DISSOLVED O2 2.77 mg/L
TEMP 16.30 °C
SPECIFIC CONDUCTIVITY 39.44 ms/cm

PURGE END TIME: 13:13
pH 6.57 su
DISSOLVED O2 1.00 mg/L
TEMP 15.80 °C
SPECIFIC CONDUCTIVITY 36.20 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.58 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 13:14
pH 6.55 su
DISSOLVED O2 0.97 mg/L
TEMP 15.76 °C
SPECIFIC CONDUCTIVITY 36.17 ms/cm

SAMPLE END TIME: 13:16

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/02
WEATHER: Sunny and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.82 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.92 ft
(8.92) X .65 X 3 = 17.39
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:25
pH 6.77 su TEMP 14.77 °C
DISSOLVED O2 2.77 mg/L SPECIFIC CONDUCTIVITY 13.76 ms/cm

PURGE END TIME: 11:39
pH 6.44 su TEMP 14.20 °C
DISSOLVED O2 1.20 mg/L SPECIFIC CONDUCTIVITY 12.21 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.60 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 11:42
pH 6.41 su TEMP 14.17 °C
DISSOLVED O2 1.17 mg/L SPECIFIC CONDUCTIVITY 12.16 ms/cm

SAMPLE END TIME: 11:45

COMMENTS: Orange particles, DUP. Here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/02
WEATHER: Sunny and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.71 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.79 ft
(9.79) X .65 X 3 = 19.09
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:30
pH 6.31 su TEMP 15.41 °C
DISSOLVED O2 2.22 mg/L SPECIFIC CONDUCTIVITY 37.88 ms/cm

PURGE END TIME: 11:52
pH 6.20 su TEMP 15.11 °C
DISSOLVED O2 1.07 mg/L SPECIFIC CONDUCTIVITY 36.66 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.85 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 11:53
pH 6.18 su TEMP 15.10 °C
DISSOLVED O2 1.04 mg/L SPECIFIC CONDUCTIVITY 36.64 ms/cm

SAMPLE END TIME: 11:57

COMMENTS: Orange particles.

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	**:**	**Method Detection Limit**
J	**:**	**Compound identified below detection limit**
B	**:**	**Compound found in blank**
D	**:**	**Results are from a dilution of the sample**
U	**:**	**Compound searched for but not detected**
E	**:**	**Compound exceeds calibration limit**
PQL	**:**	**Practical Quantitation Limit**
NLE	**:**	**No limit established**
RT	**:**	**Retention time**

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010912.D**	Sample Name	**MB 4March02**
Operator	**Skelton**	Field ID	**MB 4March02**
Date Acquired	**4 Mar 2002 1:42 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

MB 4March02

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20112 Location: 2567W SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MB 4March02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010912.D

Level: (low/med) LOW Date Received: 2/26/02

% Moisture: not dec. _____ Date Analyzed: 3/4/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010913.D**	Sample Name	**2011201**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**4 Mar 2002 2:33 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20112 Location: 2567W SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2011201

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010913.D

Level: (low/med) LOW Date Received: 2/26/02

% Moisture: not dec. _____ Date Analyzed: 3/4/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010914.D**	Sample Name	**2011202**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**4 Mar 2002 3:15 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20112 Location: 2567W SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2011202

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010914.D

Level: (low/med) LOW Date Received: 2/26/02

% Moisture: not dec. Date Analyzed: 3/4/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010915.D**	Sample Name	**2011203**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**4 Mar 2002 3:56 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20112 Location: 2567W SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2011203

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010915.D

Level: (low/med) LOW Date Received: 2/26/02

% Moisture: not dec. _____ Date Analyzed: 3/4/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010916.D**	Sample Name	**2011204**
Operator	**Skelton**	Field ID	**2567MW01**
Date Acquired	**4 Mar 2002 4:37 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol	9.82	2997372	859.38 ug/L	nle	6.61 ug/L	E
1634044	Methyl-tert-Butyl ether	11.90	218321	1.61 ug/L	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW01

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20112 Location: 2567W SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2011204

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010916.D

Level: (low/med) LOW Date Received: 2/26/02

% Moisture: not dec. Date Analyzed: 3/4/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.38	4	J

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010917.D**	Sample Name	**2011205**
Operator	**Skelton**	Field ID	**2567MW02**
Date Acquired	**4 Mar 2002 5:19 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID. **2567MW02**

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20112 Location: 2567W SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2011205

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010917.D

Level: (low/med) LOW Date Received: 2/26/02

% Moisture: not dec. _____ Date Analyzed: 3/4/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 2

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000526-73-8	Benzene, 1,2,3-trimethyl-	32.02	6	JN
2.	unknown	33.86	8	J

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010918.D**	Sample Name	**2011206**
Operator	**Skelton**	Field ID	**2567MW03**
Date Acquired	**4 Mar 2002 6:00 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol	9.78	106326	31.59 ug/L	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether	11.90	541395	4.14 ug/L	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

C:\HPCHEM\Custrpt\Volatile\624fy01.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW03

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20112 Location: 2567W SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2011206

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010918.D

Level: (low/med) LOW Date Received: 2/26/02

% Moisture: not dec. Date Analyzed: 3/4/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.39	45	JN
2. 000109-66-0	Pentane	7.23	13	JN
3.	unknown	10.50	9	J
4.	unknown	11.62	15	J
5. 000096-37-7	Cyclopentane, methyl-	15.26	45	JN
6. 001120-62-3	Cyclopentene, 3-methyl-	16.97	7	JN
7. 000110-82-7	Cyclohexane	17.53	12	JN
8. 000098-82-8	Benzene, (1-methylethyl)-	29.73	8	JN
9. 000103-65-1	Benzene, propyl-	30.71	6	JN
10. 000496-11-7	Indane	33.86	17	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010919.D**	Sample Name	**2011207**
Operator	**Skelton**	Field ID	**2567MW04**
Date Acquired	**4 Mar 2002 6:42 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW04

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20112 Location: 2567W SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2011207

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010919.D

Level: (low/med) LOW Date Received: 2/26/02

% Moisture: not dec. _____ Date Analyzed: 3/4/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010920.D**	Sample Name	**2011208**
Operator	**Skelton**	Field ID	**2567MW05**
Date Acquired	**4 Mar 2002 7:24 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW05

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20112 Location: 2567W SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2011208

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010920.D

Level: (low/med) LOW Date Received: 2/26/02

% Moisture: not dec. _____ Date Analyzed: 3/4/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010921.D**	Sample Name	**2011209**
Operator	**Skelton**	Field ID	**2567MW06**
Date Acquired	**4 Mar 2002 8:05 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW06

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20112 Location: 2567W SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2011209

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010921.D

Level: (low/med) LOW Date Received: 2/26/02

% Moisture: not dec. _____ Date Analyzed: 3/4/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB010922.D**	Sample Name	**2011210**
Operator	**Skelton**	Field ID	**2567MW07**
Date Acquired	**4 Mar 2002 8:47 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW07

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20112 Location: 2567W SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2011210

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB010922.D

Level: (low/med) LOW Date Received: 2/26/02

% Moisture: not dec. _____ Date Analyzed: 3/4/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 20112
Sample Received: NA
Analysis Start: 02/28/02
Analysis Completed: 02/28/02

Site: Ft. Monmouth
2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2011202-10
Sample Received: 02/26/02
Analysis Start: 02/28/02
Analysis Completed: 02/28/02

Site: Ft. Monmouth
2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
2011202	Field Blank	ND	10	0.8
2011203	Dupe	ND	10	0.8
2011204	2567MW01	ND	10	0.8
2011205	2567MW02	ND	10	0.8
2011206	2567MW03	ND	10	0.8
2011207	2567MW04	ND	10	0.8
2011208	2567MW05	6.5	10	0.8
2011209	2567MW06	ND	10	0.8
2011210	2567MW07	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	TERT-BUTYL ALCOHOL	MTBE	Depth to Water						NOTES
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	10	NLE	70	-						-
12/10/1991	ENV PRO	4	4400	2200	-						-
10/26/1992	ENV PRO	ND	5400	1200	-						-
10/26/1992D	ENV PRO	ND	7000	1500	-						-
04/21/1993	21st CEN	70	470	890	-						-
04/28/1993	21st CEN	ND	ND	ND	-						BNA Only
02/03/1994	21st CEN	ND	28	650	-						-
03/31/1994	21st CEN	ND	22	10	-						-
06/14/1994	21st CEN	ND	120	88	-						-
09/15/1994	21st CEN	ND	600	56	-						-
05/25/1995	EMSL	ND	930	110	-						-
08/15/1995	EMSL	3.3	930	29	-						-
11/21/1995	EMSL	ND	860	80	-						-
02/20/1996	EMSL	4	780	100	-						-
06/13/1996	FMETL	1.2	ND	ND	-						-
09/27/1996	FMETL	ND	ND	ND	-						-
04/11/1997	FMETL	2.5	ND	ND	3.80						V,Pb
08/28/1997	FMETL	1.4	ND	240	4.80						V,Pb
12/02/1997	FMETL	7.0	357	20.3	3.90						V,S,P,M
03/04/1998	FMETL	ND	560	37	3.51						V,S,P,M
06/01/1998	FMETL	0.5	95.63	24.23	4.06						V,Pb
09/24/1998	FMETL	ND	283	10.02	5.21						V,Pb
12/09/1998	FMETL	ND	143.26	3.43	4.90						V,Pb
02/24/1999	FMETL	ND	675	26.15	3.75						V,Pb
05/29/1999	FMETL	ND	605.1	9.16	4.20						V,Pb
07/21/1999	FMETL	ND	155.56	3.33	5.48						V,Pb
10/21/1999	FMETL	1.3	497.3	4.8	4.03						V,Pb
02/14/2000	FMETL	1.31	992	8.2	3.31						V,Pb
05/15/2000	FMETL	ND	458.88	5.24	4.04						V,Pb
08/22/2000	FMETL	ND	218.42	1.20	3.87						V,Pb
11/01/2000	FMETL	ND	ND	15.04	4.24						V,Pb
11/01/2000D	FMETL	ND	ND	15.33	4.24						V,Pb
02/09/2001	FMETL	ND	1488.05	4.83	3.30						V,Pb
05/08/2001	FMETL	0.93	764.25	2.10	4.15						V, Pb
08/15/2001	FMETL	ND	248.74	ND	4.95						V, Pb
08/15/2001D	FMETL	ND	457.64	1.54	4.95						V, Pb
11/09/2001	FMETL	ND	ND	1.09	5.11						V, Pb
02/26/2002	FMETL	ND	859.38	1.61	3.95						V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 02/26/2002

NOTES:

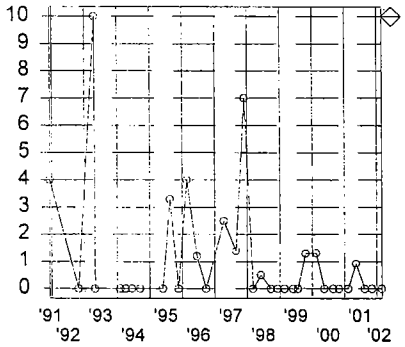
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

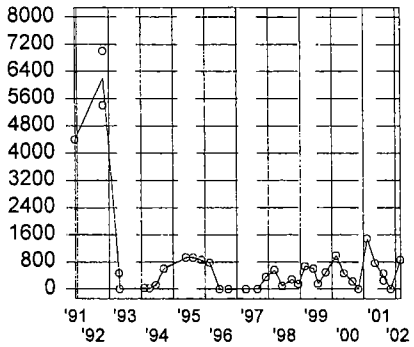
Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

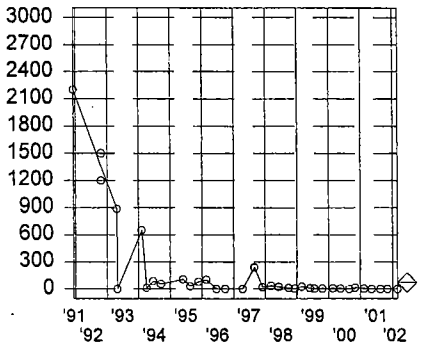
LEAD
(ug/L)



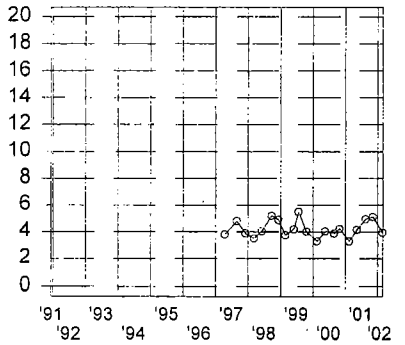
TERT-BUTYL ALCOHOL
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 02/26/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-21-2002 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	ACETONE	Depth to Water							NOTES
Units:	-	ug/L	ug/L	Feet							-
NJDEP Criteria:	-	10	700	-							-
12/10/1991	ENV PRO	ND	ND	-							-
10/26/1992	ENV PRO	11	ND	-							-
04/21/1993	ENV PRO	ND	2.5	-							-
04/28/1993	21st CEN	ND	ND	-							BNA Only
02/03/1994	21st CEN	260	ND	-							-
03/31/1994	21st CEN	ND	140	-							-
06/14/1994	21st CEN	ND	ND	-							-
09/15/1994	21st CEN	ND	ND	-							-
05/25/1995	EMSL	ND	ND	-							-
08/15/1995	EMSL	5.6	ND	-							-
11/21/1995	EMSL	ND	ND	-							-
02/20/1996	EMSL	ND	ND	-							-
06/13/1996	FMETL	ND	ND	-							-
09/27/1996	FMETL	1.2	ND	-							-
04/11/1997	FMETL	10.7	ND	3.40							V,Pb
08/28/1997	FMETL	ND	ND	4.30							V,Pb
12/02/1997	FMETL	20	ND	3.45							V,S,P,M
03/04/1998	FMETL	8.0	ND	2.92							V,S,P,M
06/01/1998	FMETL	1.4	ND	3.59							V,Pb
09/24/1998	FMETL	ND	ND	4.73							V,Pb
12/09/1998	FMETL	ND	ND	3.42							V,Pb
02/24/1999	FMETL	ND	ND	3.38							V,Pb
05/29/1999	FMETL	ND	ND	3.83							V,Pb
07/21/1999	FMETL	ND	ND	5.03							V,Pb
10/21/1999	FMETL	1.2	ND	3.65							V,Pb
02/14/2000	FMETL	1.49	ND	3.00							V,Pb
05/15/2000	FMETL	ND	ND	3.77							V,Pb
08/22/2000	FMETL	ND	5.99	3.51							V,Pb
11/01/2000	FMETL	ND	ND	4.15							V,Pb
02/09/2001	FMETL	ND	ND	2.75							V,Pb
05/08/2001	FMETL	1.02	3.31	3.95							V, Pb
08/15/2001	FMETL	ND	ND	4.65							V, Pb
11/09/2001	FMETL	ND	ND	4.81							V, Pb
11/09/2001D	FMETL	ND	ND	4.81							V, Pb
02/26/2002	FMETL	ND	ND	3.86							V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 02/26/2002

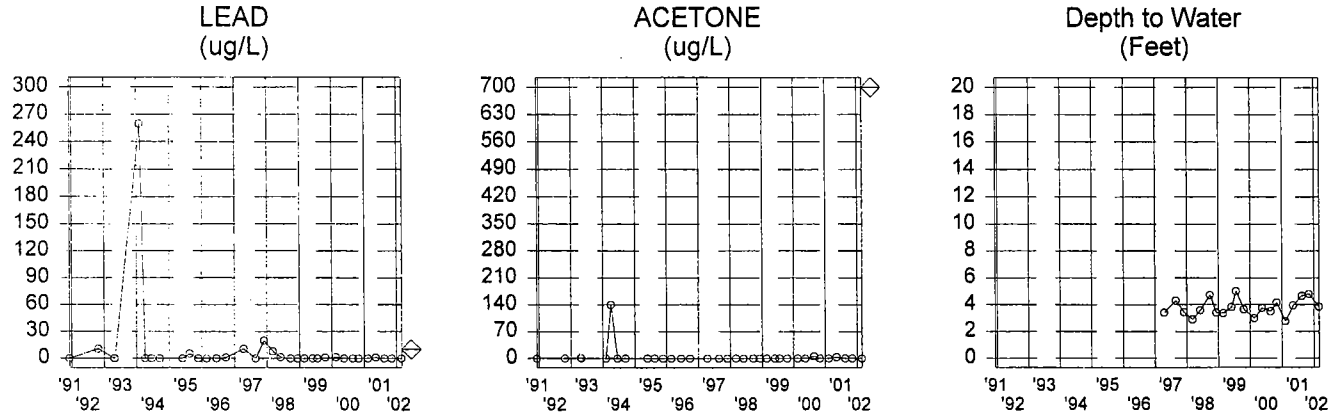
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 02/26/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-21-2002 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
12/10/1991	ENV PRO	ND	110	200	ND	69	-				-
10/26/1992	ENV PRO	5	ND	3	ND	ND	-				-
04/21/1993	ENV PRO	60	180	74.2	ND	27	-				-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	-				BNA Only
02/03/1994	21st CEN	41	19	65	ND	9.1	-				-
03/31/1994	21st CEN	25	ND	ND	ND	ND	-				-
06/14/1994	21st CEN	3	15	3.4	ND	100	-				-
09/15/1994	21st CEN	ND	ND	1.4	ND	61	-				-
05/25/1995	EMSL	2.7	94	190	ND	400	-				-
08/15/1995	EMSL	ND	89	360	ND	670	-				-
11/21/1995	EMSL	ND	35	91	46	360	-				-
02/20/1996	EMSL	6	40	70	43	250	-				-
06/13/1996	FMETL	0.7	ND	ND	ND	ND	-				-
09/27/1996	FMETL	6.2	ND	ND	ND	ND	-				-
04/11/1997	FMETL	1.8	ND	ND	ND	ND	3.15				V,Pb
08/28/1997	FMETL	ND	ND	ND	940	62	4.00				V,Pb
12/02/1997	FMETL	10	4.31	ND	ND	188	3.10				V,S,P,M
03/04/1998	FMETL	ND	19	8.6	ND	102	2.48				V,S,P,M
06/19/1998	FMETL	ND	4.68	ND	27.52	81.82	3.99				V,Pb
09/25/1998	FMETL	ND	5.96	3.62	ND	27.27	4.56				V,Pb
12/16/1998	FMETL	ND	15.45	3.67	19.38	20.54	4.25				V,Pb
02/24/1999	FMETL	1.0	1.03	ND	ND	3.3	3.16				V,Pb
05/29/1999	FMETL	ND	1.70	1.29	ND	26.34	3.55				V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	8.98	4.85				V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	13.08	3.93				V,Pb
02/14/2000	FMETL	1.22	ND	ND	ND	3.78	3.42				V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	9.35	3.40				V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	5.36	3.17				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	20.24	3.56				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	1.96	2.50				V,Pb
05/08/2001	FMETL	0.96	ND	ND	ND	11.95	3.40				V, Pb
08/15/2001	FMETL	ND	ND	ND	67.42	17.8	4.30				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	5.51	4.30				V, Pb
02/26/2002	FMETL	ND	ND	ND	31.59	4.14	3.29				V, Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 02/26/2002

NOTES:

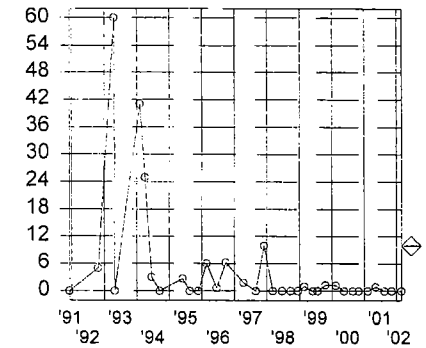
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

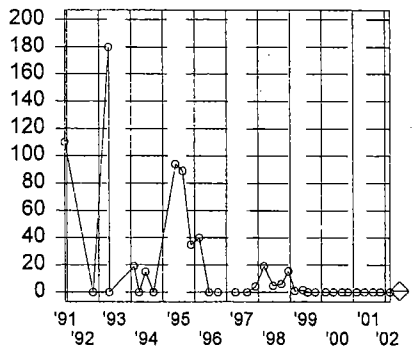
Source 3 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

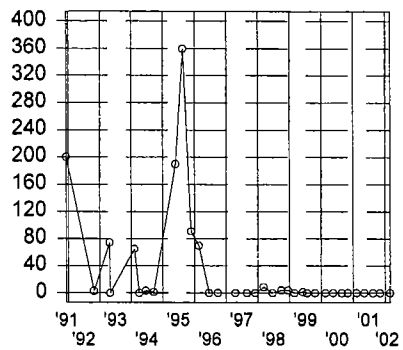
LEAD
(ug/L)



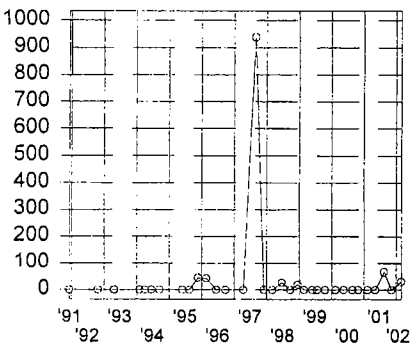
BENZENE
(ug/L)



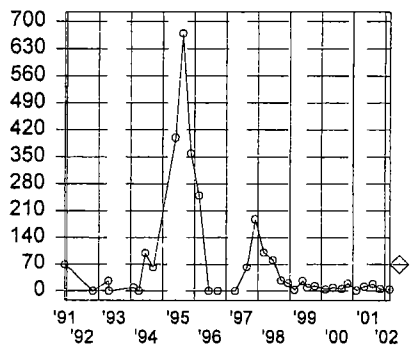
XYLENE
(ug/L)



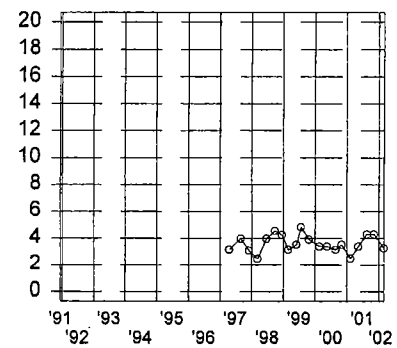
TERT-BUTYL ALCOHOL
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 02/26/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-21-2002 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	ACETONE	Depth to Water							NOTES
Units:	-	ug/L	ug/L	Feet							-
NJDEP Criteria:	-	10	700	-							-
12/10/1991	EMSL	5	ND	-							-
10/26/1992	ENV PRO	ND	ND	-							-
04/21/1993	ENV PRO	ND	2.4	-							-
04/28/1993	21st CEN	ND	ND	-							BNA Only
02/03/1994	21st CEN	ND	ND	-							-
03/31/1994	21st CEN	ND	ND	-							-
06/14/1994	21st CEN	ND	ND	-							-
09/15/1994	21st CEN	ND	ND	-							-
05/25/1995	EMSL	ND	ND	-							-
08/15/1995	EMSL	2.6	ND	-							-
11/21/1995	EMSL	ND	ND	-							-
02/20/1996	EMSL	ND	ND	-							-
06/13/1996	FMETL	1.8	ND	-							-
09/27/1996	FMETL	ND	ND	-							-
04/11/1997	FMETL	2.3	ND	2.55							V,Pb
08/28/1997	FMETL	ND	ND	3.20							V,Pb
12/02/1997	FMETL	9.0	ND	2.45							V,S,P,M
03/04/1998	FMETL	ND	ND	2.11							V,S,P,M
06/19/1998	FMETL	ND	ND	2.33							V,Pb
09/24/1998	FMETL	ND	ND	3.55							V,Pb
12/12/1998	FMETL	ND	ND	3.11							V,Pb
02/24/1999	FMETL	ND	ND	2.44							V,Pb
05/29/1999	FMETL	ND	ND	2.76							V,Pb
07/21/1999	FMETL	ND	ND	3.98							V,Pb
10/21/1999	FMETL	1.2	ND	2.37							V,Pb
02/14/2000	FMETL	1.4	ND	1.69							V,Pb
05/15/2000	FMETL	ND	ND	2.65							V,Pb
05/15/2000D	FMETL	ND	ND	2.65							V,Pb
08/22/2000	FMETL	ND	3.57	2.49							V,Pb
08/22/2000D	FMETL	ND	ND	2.49							V,Pb
11/01/2000	FMETL	ND	ND	2.91							V,Pb
02/09/2001	FMETL	ND	ND	1.99							V,Pb
02/09/2001D	FMETL	ND	ND	1.99							V,Pb
05/08/2001	FMETL	ND	4.54	2.68							V, Pb
05/08/2001D	FMETL	1.26	ND	2.68							V, Pb
08/15/2001	FMETL	2.2	ND	3.50							V, Pb
11/09/2001	FMETL	ND	ND	3.65							V, Pb
02/26/2002	FMETL	ND	ND	2.71							V, Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 02/26/2002

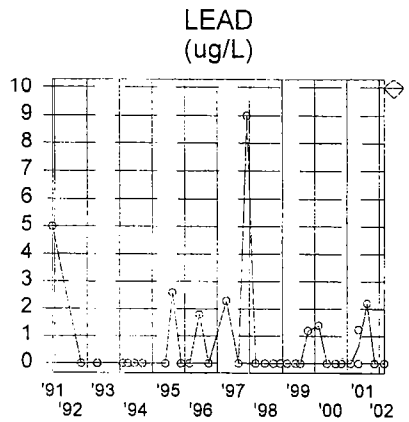
NOTES:

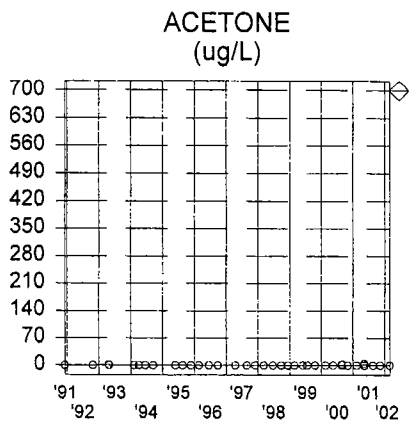
FORT MONMOUTH

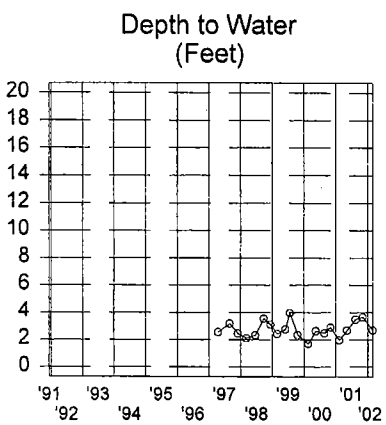
GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 02/26/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-21-2002 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	ACETONE	Depth to Water							NOTES
Units:	-	ug/L	ug/L	Feet							-
NJDEP Criteria:	-	10	700	-							-
05/25/1995	EMSL	4.0	ND	-							-
08/15/1995	EMSL	ND	ND	-							-
11/21/1995	EMSL	ND	ND	-							-
02/20/1996	EMSL	ND	ND	-							-
09/27/1996	FMETL	ND	-	-							-
04/11/1997	FMETL	2.7	-	7.20							V,Pb
08/28/1997	FMETL	ND	-	7.50							V,Pb
12/02/1997	FMETL	7.0	-	7.20							V,S,P,M
03/04/1998	FMETL	ND	-	7.30							V,S,P,M
06/01/1998	FMETL	ND	-	7.55							V,Pb
09/25/1998	FMETL	ND	-	7.59							V,Pb
12/16/1998	FMETL	ND	-	7.34							V,Pb
02/24/1999	FMETL	ND	-	8.16							V,Pb
06/08/1999	FMETL	ND	-	7.33							V,Pb
07/21/1999	FMETL	ND	-	7.87							V,Pb
10/21/1999	FMETL	4.4	-	8.57							V,Pb
02/14/2000	FMETL	1.21	-	5.75							V,Pb
05/15/2000	FMETL	ND	-	6.92							V,Pb
08/22/2000	FMETL	1.6	ND	6.73							V,Pb
11/01/2000	FMETL	2.4	ND	7.16							V,Pb
02/09/2001	FMETL	ND	ND	5.26							V,Pb
05/08/2001	FMETL	4.53	4.35	7.47							V, Pb
08/15/2001	FMETL	8.4	ND	7.70							V, Pb
11/09/2001	FMETL	9.7	ND	7.83							V, Pb
02/26/2002	FMETL	6.5	ND	6.95							V, Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 02/26/2002

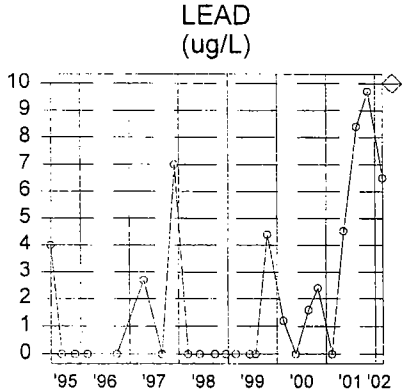
NOTES:

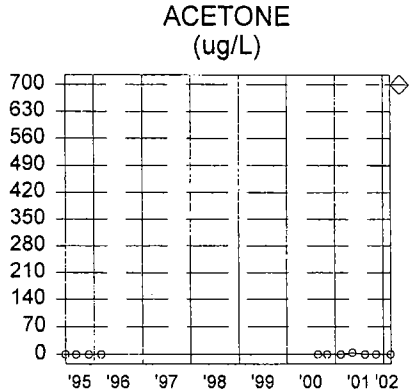
FORT MONMOUTH

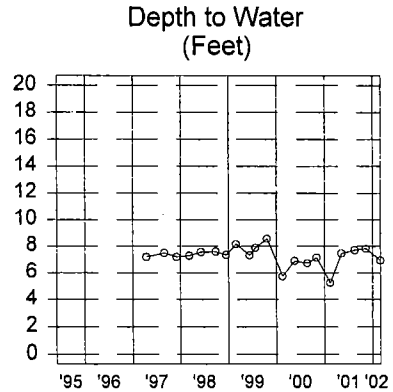
GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 02/26/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-21-2002 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	ACETONE	Depth to Water							NOTES
Units:	-	ug/L	ug/L	Feet							-
NJDEP Criteria:	-	10	700	-							-
08/22/2000	FMETL	ND	4.02	7.06							V,Pb
11/01/2000	FMETL	ND	ND	7.26							V,Pb
02/09/2001	FMETL	ND	ND	6.44							V,Pb
05/08/2001	FMETL	1.48	ND	7.42							V, Pb
08/15/2001	FMETL	ND	ND	8.15							V, Pb
11/09/2001	FMETL	ND	ND	8.09							V, Pb
02/26/2002	FMETL	ND	ND	6.82							V, Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 02/26/2002

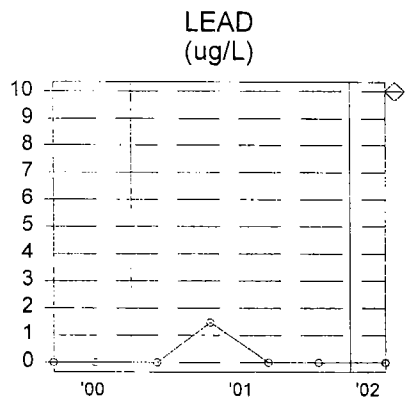
NOTES:

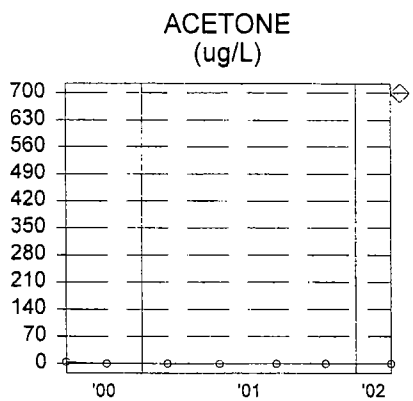
FORT MONMOUTH

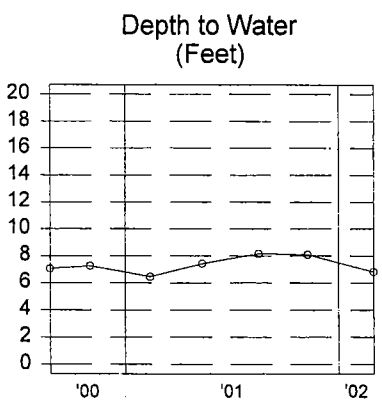
GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV







SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 02/26/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-21-2002 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Depth to Water									NOTES
Units:	-	Feet									-
NJDEP Criteria:	-	-									-
08/22/2000	FMETL	6.65									V,Pb
11/02/2000	FMETL	6.80									V,Pb
02/09/2001	FMETL	6.23									V,Pb
05/08/2001	FMETL	7.02									V, Pb
08/15/2001	FMETL	7.75									V, Pb
11/09/2001	FMETL	7.56									V, Pb
02/26/2002	FMETL	6.71									V, Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 02/26/2002

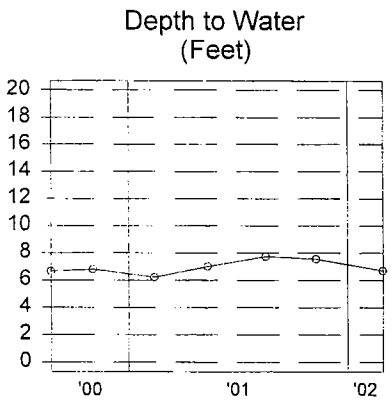
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 02/26/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

03-21-2002 x:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-4359 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567 #21

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
2033104	2567MW01	29-26925	05/28/02
2033105	2567MW02	29-26926	05/28/02
2033106	2567MW03	29-26947	05/28/02
2033107	2567MW04	29-26948	05/28/02
2033108	2567MW05	29-31783	05/28/02
2033109	2567MW06	29-42585	05/28/02
2033110	2567MW07	29-42586	05/28/02

NJDEP Laboratory Certification # 13461

6-17-02

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

SAMPLING

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: X26223
(X)DERA ( )OMA ( )Other:_____
Project No:
Location: 2567 wells
2nd Qtr '02
Samplers Name / Company: Corey McCormack, TVS

LIMS/Work Order #		Sample Location	Date	Time	Sample Type	# bottles	VOTS	Pb						Hg Total	Remarks / Preservation Method
20331	01	Trip	5/28/02	0736	AQ	2	✓							—	
	02	Field Blank		0805		3	✓	✓						—	
	03	Dupe		—		3	✓	✓						—	
	04	2567 mw01		0942		3	✓	✓						0.0	29-26825
	05	2567 mw02 *		0923			✓	✓						0.0	29-26826
	06	2567 mw03		1124			✓	✓						0.0	29-26947
	07	2567 mw04		0933			✓	✓						0.0	29-26948
	08	2567 mw05		1415			✓	✓						0.0	29-31783
	09	2567 mw06		1110			✓	✓						0.0	29-42585
	10	2567 mw07		1133			✓	✓						0.0	29-42586

Analysis Parameters: VOTS, Pb, Hg Total

Comments: HCL/HNO3/4°C

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	5/28/02 1430	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks: Tide: N/A

print legibly

Coc4/11/02

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/28/02
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.09 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.01 ft
(9.01) X .65 X 3 = 17.56
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.9 ppm

PURGE START TIME: 08:23
pH 6.76 su TEMP 15.87 °C
DISSOLVED O2 3.07 mg/L SPECIFIC CONDUCTIVITY 69.77 ms/cm

PURGE END TIME: 09:41
pH 6.62 su TEMP 15.41 °C
DISSOLVED O2 2.21 mg/L SPECIFIC CONDUCTIVITY 68.32 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.13 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 09:42
pH 6.60 su TEMP 15.41 °C
DISSOLVED O2 2.10 mg/L SPECIFIC CONDUCTIVITY 68.31 ms/cm

SAMPLE END TIME: 09:44

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/28/02
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.83 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.37 ft
(8.37) X .65 X 3 = 16.32
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:13
pH 6.49 su TEMP 16.53 °C
DISSOLVED O2 3.21 mg/L SPECIFIC CONDUCTIVITY 38.41 ms/cm

PURGE END TIME: 09:22
pH 6.39 su TEMP 16.21 °C
DISSOLVED O2 2.07 mg/L SPECIFIC CONDUCTIVITY 37.21 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.62 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 09:23
pH 6.38 su TEMP 16.20 °C
DISSOLVED O2 1.97 mg/L SPECIFIC CONDUCTIVITY 37.20 ms/cm

SAMPLE END TIME: 09:25

COMMENTS: Slightly cloudy and yellow. DUP. Here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/28/02
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.40 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.10 ft
(9.10) X .65 X 3 = 17.79
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 2.7 ppm

PURGE START TIME: 10:05
pH 6.58 su TEMP 16.41 °C
DISSOLVED O2 3.76 mg/L SPECIFIC CONDUCTIVITY 38.21 ms/cm

PURGE END TIME: 11:23
pH 6.47 su TEMP 16.27 °C
DISSOLVED O2 2.01 mg/L SPECIFIC CONDUCTIVITY 39.91 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 4.49 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 11:24
pH 6.47 su TEMP 16.25 °C
DISSOLVED O2 1.97 mg/L SPECIFIC CONDUCTIVITY 40.11 ms/cm

SAMPLE END TIME: 11:28

COMMENTS: Slightly cloudy.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/28/02
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.83 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.83 ft
(8.83) X .65 X 3 = 17.21
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:18
pH 6.07 su
TEMP 16.66 °C
DISSOLVED O2 3.76 mg/L
SPECIFIC CONDUCTIVITY 34.29 ms/cm

PURGE END TIME: 09:32
pH 5.89 su
TEMP 16.17 °C
DISSOLVED O2 2.24 mg/L
SPECIFIC CONDUCTIVITY 33.11 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 3.48 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 09:33
pH 5.86 su
TEMP 16.14 °C
DISSOLVED O2 2.11 mg/L
SPECIFIC CONDUCTIVITY 33.07 ms/cm

SAMPLE END TIME: 09:35

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/28/02
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.91 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.84 ft
(8.84) X .65 X 3 = 17.23
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 13:00
pH 6.77 su
TEMP 16.27 °C
DISSOLVED O2 3.20 mg/L
SPECIFIC CONDUCTIVITY 41.77 ms/cm

PURGE END TIME: 14:14
pH 6.61 su
TEMP 15.91 °C
DISSOLVED O2 1.77 mg/L
SPECIFIC CONDUCTIVITY 40.30 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.31 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 14:15
pH 6.60 su
TEMP 15.90 °C
DISSOLVED O2 1.66 mg/L
SPECIFIC CONDUCTIVITY 40.27 ms/cm

SAMPLE END TIME: 14:19

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/28/02
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.29 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.45 ft
(8.45) X .65 X 3 = 16.47
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:00
pH 6.81 su TEMP 15.27 °C
DISSOLVED O2 2.63 mg/L SPECIFIC CONDUCTIVITY 14.91 ms/cm

PURGE END TIME: 11:09
pH 6.52 su TEMP 15.11 °C
DISSOLVED O2 1.10 mg/L SPECIFIC CONDUCTIVITY 13.55 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.73 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 11:10
pH 6.51 su TEMP 15.11 °C
DISSOLVED O2 1.07 mg/L SPECIFIC CONDUCTIVITY 13.56 ms/cm

SAMPLE END TIME: 11:13

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 05/28/02
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.83 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.67 ft
(9.67) X .65 X 3 = 18.85
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:10
pH 6.47 su TEMP 15.57 °C
DISSOLVED O2 2.79 mg/L SPECIFIC CONDUCTIVITY 36.71 ms/cm

PURGE END TIME: 11:32
pH 6.29 su TEMP 15.20 °C
DISSOLVED O2 1.10 mg/L SPECIFIC CONDUCTIVITY 35.20 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.19 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 11:33
pH 6.27 su TEMP 15.17 °C
DISSOLVED O2 1.02 mg/L SPECIFIC CONDUCTIVITY 35.17 ms/cm

SAMPLE END TIME: 11:37

COMMENTS: Cloudy and yellow.

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	**:**	**Method Detection Limit**
J	**:**	**Compound identified below detection limit**
B	**:**	**Compound found in blank**
D	**:**	**Results are from a dilution of the sample**
U	**:**	**Compound searched for but not detected**
E	**:**	**Compound exceeds calibration limit**
PQL	**:**	**Practical Quantitation Limit**
NLE	**:**	**No limit established**
RT	**:**	**Retention time**

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011317.D**	Sample Name	**MB 05Jun02**
Operator	**Skelton**	Field ID	**MB 05Jun02**
Date Acquired	**5 Jun 2002 8:23 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

MB 05Jun02

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20331 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: MB 05Jun02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011317.D

Level: (low/med) LOW Date Received: 5/28/02

% Moisture: not dec. _____ Date Analyzed: 6/5/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011327.D**	Sample Name	**2033101**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**6 Jun 2002 3:05 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride	11.22	906561	32.28 ug/L	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20331 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2033101

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011327.D

Level: (low/med) LOW Date Received: 5/28/02

% Moisture: not dec. Date Analyzed: 6/6/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011328.D**	Sample Name	**2033102**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**6 Jun 2002 3:45 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride	11.21	205895	7.57 ug/L	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20331 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2033102

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011328.D

Level: (low/med) LOW Date Received: 5/28/02

% Moisture: not dec. _____ Date Analyzed: 6/6/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011329.D**	Sample Name	**2033103**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**6 Jun 2002 4:26 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20331 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2033103

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011329.D

Level: (low/med) LOW Date Received: 5/28/02

% Moisture: not dec. _____ Date Analyzed: 6/6/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000496-11-7	Indane	33.86	4	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011330.D**	Sample Name	**2033104**
Operator	**Skelton**	Field ID	**2567MW01**
Date Acquired	**6 Jun 2002 5:06 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol	9.99	611880	331.75 ug/L	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW01

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20331 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2033104

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011330.D

Level: (low/med) LOW Date Received: 5/28/02

% Moisture: not dec. _____ Date Analyzed: 6/6/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011331.D**	Sample Name	**2033105**
Operator	**Skelton**	Field ID	**2567MW02**
Date Acquired	**6 Jun 2002 5:46 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

C:\HPCHEM\Custrpt\Volatile\624fy01.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW02

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20331 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2033105

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011331.D

Level: (low/med) LOW Date Received: 5/28/02

% Moisture: not dec. _____ Date Analyzed: 6/6/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000496-11-7	Indane	33.86	5	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011332.D**	Sample Name	**2033106**
Operator	**Skelton**	Field ID	**2567MW03**
Date Acquired	**6 Jun 2002 6:26 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether	11.92	230748	3.13 ug/L	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

C:\HPCHEM\Custrpt\Volatile\624fy01.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW03

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20331 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2033106

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011332.D

Level: (low/med) LOW Date Received: 5/28/02

% Moisture: not dec. _____ Date Analyzed: 6/6/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 7

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.42	20	JN
2.	unknown hydrocarbon	7.25	4	J
3.	unknown hydrocarbon	11.60	10	J
4. 000096-37-7	Cyclopentane, methyl-	15.28	18	JN
5.	unknown hydrocarbon	17.53	5	J
6. 000091-20-3	Naphthalene	31.11	4	JN
7. 000496-11-7	Indane	33.86	6	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011333.D**	Sample Name	**2033107**
Operator	**Skelton**	Field ID	**2567MW04**
Date Acquired	**6 Jun 2002 7:07 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW04

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20331 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2033107

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011333.D

Level: (low/med) LOW Date Received: 5/28/02

% Moisture: not dec. Date Analyzed: 6/6/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011334.D**	Sample Name	**2033108**
Operator	**Skelton**	Field ID	**2567MW05**
Date Acquired	**6 Jun 2002 7:47 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW05

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20331 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2033108

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011334.D

Level: (low/med) LOW Date Received: 5/28/02

% Moisture: not dec. _____ Date Analyzed: 6/6/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011335.D**	Sample Name	**2033109**
Operator	**Skelton**	Field ID	**2567MW06**
Date Acquired	**6 Jun 2002 8:27 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

C:\HPCHEM\Custrpt\Volatile\624fy01.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW06

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20331 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2033109

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011335.D

Level: (low/med) LOW Date Received: 5/28/02

% Moisture: not dec. _____ Date Analyzed: 6/6/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011336.D**	Sample Name	**2033110**
Operator	**Skelton**	Field ID	**2567MW07**
Date Acquired	**6 Jun 2002 9:08 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	8.41 ug/L	
107131	Acrylonitrile			not detected	50	3.40 ug/L	
75650	tert-Butyl alcohol			not detected	nle	6.61 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.39 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.43 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.34 ug/L	
74-87-3	Chloromethane			not detected	30	0.37 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.33 ug/L	
74-83-9	Bromomethane			not detected	10	0.56 ug/L	
75-00-3	Chloroethane			not detected	nle	0.44 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.48 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.40 ug/L	
67-64-1	Acetone			not detected	700	0.91 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.37 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.22 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.72 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.46 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.89 ug/L	
78-93-3	2-Butanone			not detected	300	0.68 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.45 ug/L	
67-66-3	Chloroform			not detected	6	0.36 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.54 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.39 ug/L	
71-43-2	Benzene			not detected	1	0.49 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.54 ug/L	
79-01-6	Trichloroethene			not detected	1	0.43 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.65 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.71 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.29 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.32 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.72 ug/L	
108-88-3	Toluene			not detected	1000	0.36 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.47 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.69 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.73 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.66 ug/L	
124-48-1	Dibromochloromethane			not detected	10	1.13 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.45 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.40 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.99 ug/L	
95-47-6	o-Xylene			not detected	nle	0.26 ug/L	
100-42-5	Styrene			not detected	100	0.39 ug/L	
75-25-2	Bromoform			not detected	4	0.85 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.87 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.25 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.43 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.52 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

C:\HPCHEM\Custrpt\Volatile\624fy01.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW07

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20331 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2033110

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011336.D

Level: (low/med) LOW Date Received: 5/28/02

% Moisture: not dec. _____ Date Analyzed: 6/6/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #:
Sample Received: NA
Analysis Start: 06/07/02
Analysis Completed: 06/07/02

Site: Ft. Monmouth
2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2033102-10
Sample Received: 05/28/02
Analysis Start: 06/07/02
Analysis Completed: 06/07/02

Site: Ft. Monmouth
2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
2033102	Field Blank	ND	10	0.8
2033103	Dupe	ND	10	0.8
2033104	2567MW01	ND	10	0.8
2033105	2567MW02	ND	10	0.8
2033106	2567MW03	ND	10	0.8
2033107	2567MW04	ND	10	0.8
2033108	2567MW05	3.6	10	0.8
2033109	2567MW06	ND	10	0.8
2033110	2567MW07	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	BENZENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water					NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	Feet					-
NJDEP Criteria:	-	10	1	NLE	70	-					-
12/10/1991	ENV PRO	4	2400	4400	2200	-					-
10/26/1992	ENV PRO	ND	2800	5400	1200	-					-
10/26/1992D	ENV PRO	ND	3200	7000	1500	-					-
04/21/1993	21st CEN	70	520	470	890	-					-
04/28/1993	21st CEN	ND	ND	ND	ND	-					BNA Only
02/03/1994	21st CEN	ND	21	28	650	-					-
03/31/1994	21st CEN	ND	ND	22	10	-					-
06/14/1994	21st CEN	ND	ND	120	88	-					-
09/15/1994	21st CEN	ND	ND	600	56	-					-
05/25/1995	EMSL	ND	ND	930	110	-					-
08/15/1995	EMSL	3.3	ND	930	29	-					-
11/21/1995	EMSL	ND	ND	860	80	-					-
02/20/1996	EMSL	4	ND	780	100	-					-
06/13/1996	FMETL	1.2	ND	ND	ND	-					-
09/27/1996	FMETL	ND	ND	ND	ND	-					-
04/11/1997	FMETL	2.5	ND	ND	ND	3.80					V,Pb
08/28/1997	FMETL	1.4	39.4	ND	240	4.80					V,Pb
12/02/1997	FMETL	7.0	ND	357	20.3	3.90					V,S,P,M
03/04/1998	FMETL	ND	ND	560	37	3.51					V,S,P,M
06/01/1998	FMETL	0.5	ND	95.63	24.23	4.06					V,Pb
09/24/1998	FMETL	ND	ND	283	10.02	5.21					V,Pb
12/09/1998	FMETL	ND	ND	143.26	3.43	4.90					V,Pb
02/24/1999	FMETL	ND	ND	675	26.15	3.75					V,Pb
05/29/1999	FMETL	ND	ND	605.1	9.16	4.20					V,Pb
07/21/1999	FMETL	ND	ND	155.56	3.33	5.48					V,Pb
10/21/1999	FMETL	1.3	ND	497.3	4.8	4.03					V,Pb
02/14/2000	FMETL	1.31	ND	992	8.2	3.31					V,Pb
05/15/2000	FMETL	ND	ND	458.88	5.24	4.04					V,Pb
08/22/2000	FMETL	ND	ND	218.42	1.20	3.87					V,Pb
11/01/2000	FMETL	ND	ND	ND	15.04	4.24					V,Pb
11/01/2000D	FMETL	ND	ND	ND	15.33	4.24					V,Pb
02/09/2001	FMETL	ND	ND	1488.05	4.83	3.30					V,Pb
05/08/2001	FMETL	0.93	ND	764.25	2.10	4.15					V, Pb
08/15/2001	FMETL	ND	ND	248.74	ND	4.95					V, Pb
08/15/2001D	FMETL	ND	ND	457.64	1.54	4.95					V, Pb
11/09/2001	FMETL	ND	ND	ND	1.09	5.11					V, Pb
02/26/2002	FMETL	ND	ND	859.38	1.61	3.95					V, Pb
05/28/2002	FMETL	ND	ND	331.75	ND	4.09					V,Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/28/2002

NOTES:

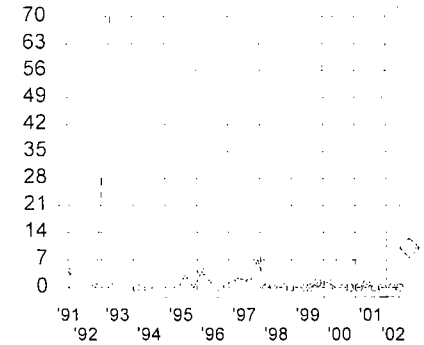
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

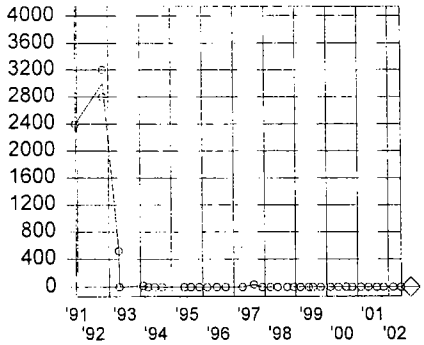
Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

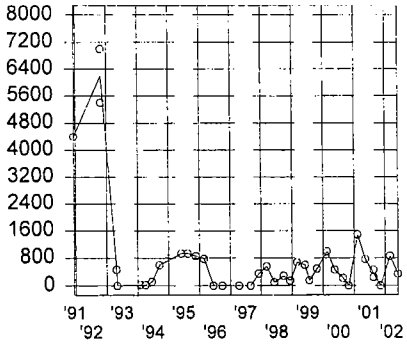
LEAD
(ug/L)



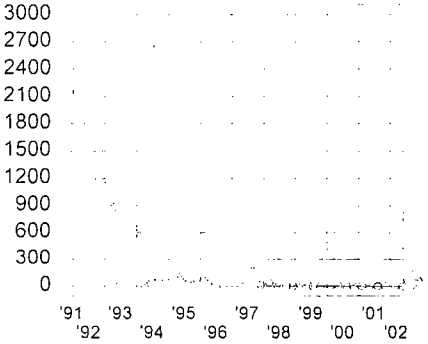
BENZENE
(ug/L)



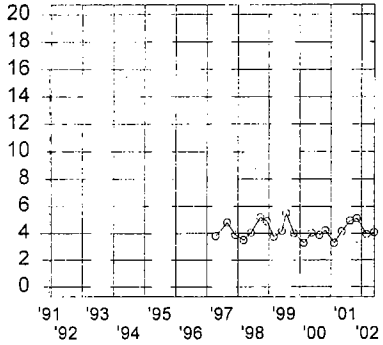
TERT-BUTYL ALCOHOL
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 05/28/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-18-2002 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	MTBE	Depth to Water	NOTES
Units:	-	ug/L	ug/L	Feet	-
NJDEP Criteria:	-	10	70	-	-
12/10/1991	ENV PRO	ND	ND	-	-
10/26/1992	ENV PRO	11	ND	-	-
04/21/1993	ENV PRO	ND	ND	-	-
04/28/1993	21st CEN	ND	ND	-	BNA Only
02/03/1994	21st CEN	260	7.0	-	-
03/31/1994	21st CEN	ND	11	-	-
06/14/1994	21st CEN	ND	11	-	-
09/15/1994	21st CEN	ND	4.1	-	-
05/25/1995	EMSL	ND	3.1	-	-
08/15/1995	EMSL	5.6	2.5	-	-
11/21/1995	EMSL	ND	1.6	-	-
02/20/1996	EMSL	ND	2	-	-
06/13/1996	FMETL	ND	ND	-	-
09/27/1996	FMETL	1.2	ND	-	-
04/11/1997	FMETL	10.7	ND	3.40	V,Pb
08/28/1997	FMETL	ND	ND	4.30	V,Pb
12/02/1997	FMETL	20	ND	3.45	V,S,P,M
03/04/1998	FMETL	8.0	ND	2.92	V,S,P,M
06/01/1998	FMETL	1.4	ND	3.59	V,Pb
09/24/1998	FMETL	ND	ND	4.73	V,Pb
12/09/1998	FMETL	ND	ND	3.42	V,Pb
02/24/1999	FMETL	ND	ND	3.38	V,Pb
05/29/1999	FMETL	ND	ND	3.83	V,Pb
07/21/1999	FMETL	ND	ND	5.03	V,Pb
10/21/1999	FMETL	1.2	ND	3.65	V,Pb
02/14/2000	FMETL	1.49	ND	3.00	V,Pb
05/15/2000	FMETL	ND	ND	3.77	V,Pb
08/22/2000	FMETL	ND	ND	3.51	V,Pb
11/01/2000	FMETL	ND	ND	4.15	V,Pb
02/09/2001	FMETL	ND	ND	2.75	V,Pb
05/08/2001	FMETL	1.02	ND	3.95	V, Pb
08/15/2001	FMETL	ND	ND	4.65	V, Pb
11/09/2001	FMETL	ND	ND	4.81	V, Pb
11/09/2001D	FMETL	ND	ND	4.81	V, Pb
02/26/2002	FMETL	ND	ND	3.86	V, Pb
05/28/2002	FMETL	ND	ND	3.83	V,Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 05/28/2002

NOTES:

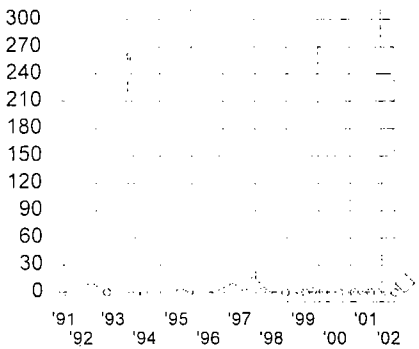
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

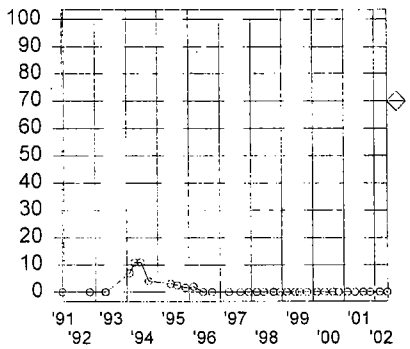
Source 2 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

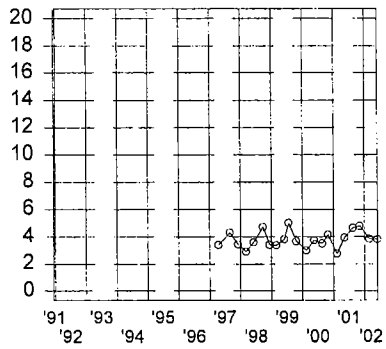
LEAD
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 05/28/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-18-2002 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	BENZENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water					NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	Feet					-
NJDEP Criteria:	-	10	1	NLE	70	-					-
12/10/1991	ENV PRO	ND	110	ND	69	-					-
10/26/1992	ENV PRO	5	ND	ND	ND	-					-
04/21/1993	ENV PRO	60	180	ND	27	-					-
04/28/1993	21st CEN	ND	ND	ND	ND	-					BNA Only
02/03/1994	21st CEN	41	19	ND	9.1	-					-
03/31/1994	21st CEN	25	ND	ND	ND	-					-
06/14/1994	21st CEN	3	15	ND	100	-					-
09/15/1994	21st CEN	ND	ND	ND	61	-					-
05/25/1995	EMSL	2.7	94	ND	400	-					-
08/15/1995	EMSL	ND	89	ND	670	-					-
11/21/1995	EMSL	ND	35	46	360	-					-
02/20/1996	EMSL	6	40	43	250	-					-
06/13/1996	FMETL	0.7	ND	ND	ND	-					-
09/27/1996	FMETL	6.2	ND	ND	ND	-					-
04/11/1997	FMETL	1.8	ND	ND	ND	3.15					V,Pb
08/28/1997	FMETL	ND	ND	940	62	4.00					V,Pb
12/02/1997	FMETL	10	4.31	ND	188	3.10					V,S,P,M
03/04/1998	FMETL	ND	19	ND	102	2.48					V,S,P,M
06/19/1998	FMETL	ND	4.68	27.52	81.82	3.99					V,Pb
09/25/1998	FMETL	ND	5.96	ND	27.27	4.56					V,Pb
12/16/1998	FMETL	ND	15.45	19.38	20.54	4.25					V,Pb
02/24/1999	FMETL	1.0	1.03	ND	3.3	3.16					V,Pb
05/29/1999	FMETL	ND	1.70	ND	26.34	3.55					V,Pb
07/21/1999	FMETL	ND	ND	ND	8.98	4.85					V,Pb
10/21/1999	FMETL	1.3	ND	ND	13.08	3.93					V,Pb
02/14/2000	FMETL	1.22	ND	ND	3.78	3.42					V,Pb
05/15/2000	FMETL	ND	ND	ND	9.35	3.40					V,Pb
08/22/2000	FMETL	ND	ND	ND	5.36	3.17					V,Pb
11/01/2000	FMETL	ND	ND	ND	20.24	3.56					V,Pb
02/09/2001	FMETL	ND	ND	ND	1.96	2.50					V,Pb
05/08/2001	FMETL	0.96	ND	ND	11.95	3.40					V, Pb
08/15/2001	FMETL	ND	ND	67.42	17.8	4.30					V, Pb
11/09/2001	FMETL	ND	ND	ND	5.51	4.30					V, Pb
02/26/2002	FMETL	ND	ND	31.59	4.14	3.29					V, Pb
05/28/2002	FMETL	ND	ND	ND	3.13	3.40					V,Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 05/28/2002

NOTES:

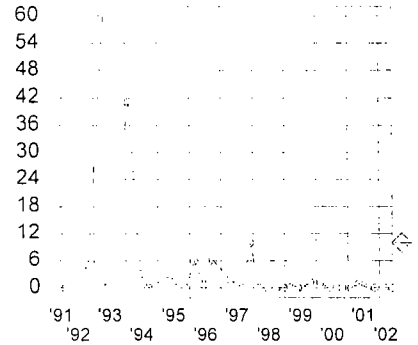
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

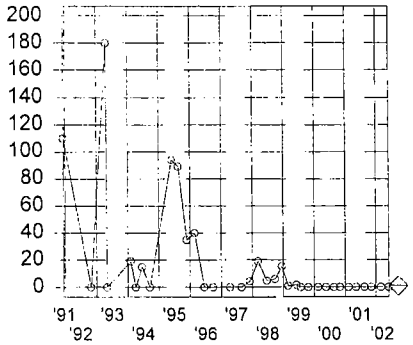
Source 3 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

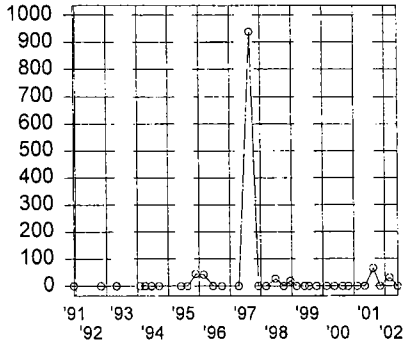
LEAD
(ug/L)



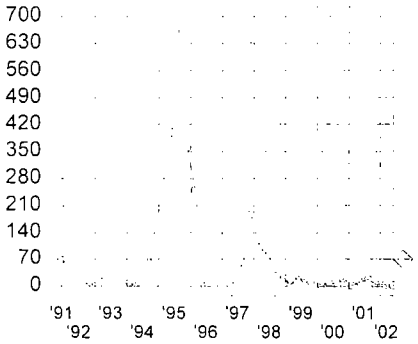
BENZENE
(ug/L)



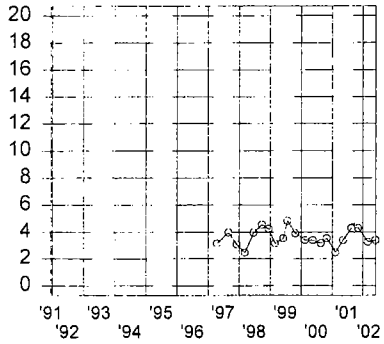
TERT-BUTYL ALCOHOL
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 05/28/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-18-2002 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	Depth to Water	NOTES
Units:	-	ug/L	Feet	-
NJDEP Criteria:	-	10	-	-
12/10/1991	EMSL	5	-	-
10/26/1992	ENV PRO	ND	-	-
04/21/1993	ENV PRO	ND	-	-
04/28/1993	21st CEN	ND	-	BNA Only
02/03/1994	21st CEN	ND	-	-
03/31/1994	21st CEN	ND	-	-
06/14/1994	21st CEN	ND	-	-
09/15/1994	21st CEN	ND	-	-
05/25/1995	EMSL	ND	-	-
08/15/1995	EMSL	2.6	-	-
11/21/1995	EMSL	ND	-	-
02/20/1996	EMSL	ND	-	-
06/13/1996	FMETL	1.8	-	-
09/27/1996	FMETL	ND	-	-
04/11/1997	FMETL	2.3	2.55	V,Pb
08/28/1997	FMETL	ND	3.20	V,Pb
12/02/1997	FMETL	9.0	2.45	V,S,P,M
03/04/1998	FMETL	ND	2.11	V,S,P,M
06/19/1998	FMETL	ND	2.33	V,Pb
09/24/1998	FMETL	ND	3.55	V,Pb
12/12/1998	FMETL	ND	3.11	V,Pb
02/24/1999	FMETL	ND	2.44	V,Pb
05/29/1999	FMETL	ND	2.76	V,Pb
07/21/1999	FMETL	ND	3.98	V,Pb
10/21/1999	FMETL	1.2	2.37	V,Pb
02/14/2000	FMETL	1.4	1.69	V,Pb
05/15/2000	FMETL	ND	2.65	V,Pb
05/15/2000D	FMETL	ND	2.65	V,Pb
08/22/2000	FMETL	ND	2.49	V,Pb
08/22/2000D	FMETL	ND	2.49	V,Pb
11/01/2000	FMETL	ND	2.91	V,Pb
02/09/2001	FMETL	ND	1.99	V,Pb
02/09/2001D	FMETL	ND	1.99	V,Pb
05/08/2001	FMETL	ND	2.68	V, Pb
05/08/2001D	FMETL	1.26	2.68	V, Pb
08/15/2001	FMETL	2.2	3.50	V, Pb
11/09/2001	FMETL	ND	3.65	V, Pb
02/26/2002	FMETL	ND	2.71	V, Pb
05/28/2002	FMETL	ND	2.83	V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 05/28/2002

NOTES:

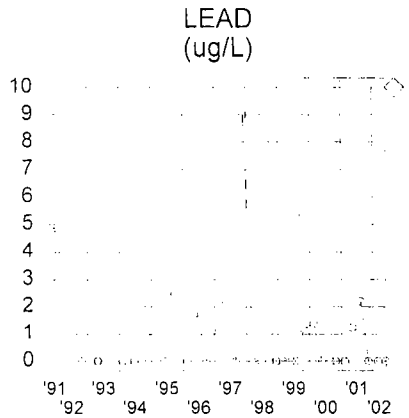
FORT MONMOUTH

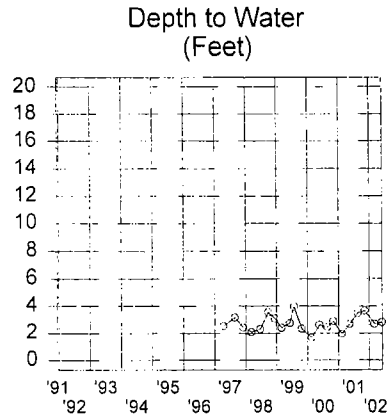
GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-18-2002 x:\mtech46\fm\2567\gw\2567.wsf





SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 05/28/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-18-2002 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	Depth to Water	NOTES
Units:	-	ug/L	Feet	-
NJDEP Criteria:	-	10	-	-
05/25/1995	EMSL	4.0	-	-
08/15/1995	EMSL	ND	-	-
11/21/1995	EMSL	ND	-	-
02/20/1996	EMSL	ND	-	-
09/27/1996	FMETL	ND	-	-
04/11/1997	FMETL	2.7	7.20	V,Pb
08/28/1997	FMETL	ND	7.50	V,Pb
12/02/1997	FMETL	7.0	7.20	V,S,P,M
03/04/1998	FMETL	ND	7.30	V,S,P,M
06/01/1998	FMETL	ND	7.55	V,Pb
09/25/1998	FMETL	ND	7.59	V,Pb
12/16/1998	FMETL	ND	7.34	V,Pb
02/24/1999	FMETL	ND	8.16	V,Pb
06/08/1999	FMETL	ND	7.33	V,Pb
07/21/1999	FMETL	ND	7.87	V,Pb
10/21/1999	FMETL	4.4	8.57	V,Pb
02/14/2000	FMETL	1.21	5.75	V,Pb
05/15/2000	FMETL	ND	6.92	V,Pb
08/22/2000	FMETL	1.6	6.73	V,Pb
11/01/2000	FMETL	2.4	7.16	V,Pb
02/09/2001	FMETL	ND	5.26	V,Pb
05/08/2001	FMETL	4.53	7.47	V, Pb
08/15/2001	FMETL	8.4	7.70	V, Pb
11/09/2001	FMETL	9.7	7.83	V, Pb
02/26/2002	FMETL	6.5	6.95	V, Pb
05/28/2002	FMETL	3.60	5.91	V,Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 05/28/2002

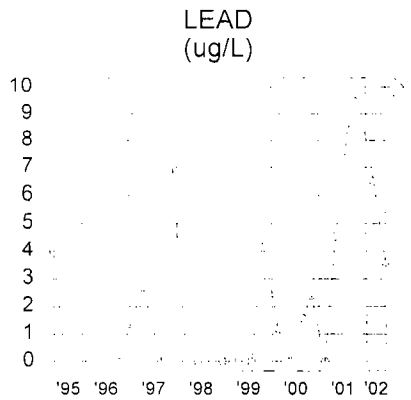
NOTES:

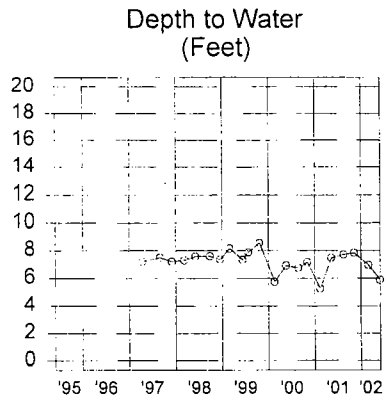
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 05/28/2002

LEGEND:

PARAMETER

○ = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-18-2002 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	LEAD	Depth to Water							NOTES
Units:	-	ug/L	Feet							-
NJDEP Criteria:	-	10	-							-
08/22/2000	FMETL	ND	7.06							V,Pb
11/01/2000	FMETL	ND	7.26							V,Pb
02/09/2001	FMETL	ND	6.44							V,Pb
05/08/2001	FMETL	1.48	7.42							V, Pb
08/15/2001	FMETL	ND	8.15							V, Pb
11/09/2001	FMETL	ND	8.09							V, Pb
02/26/2002	FMETL	ND	6.82							V, Pb
05/28/2002	FMETL	ND	7.29							V,Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 05/28/2002

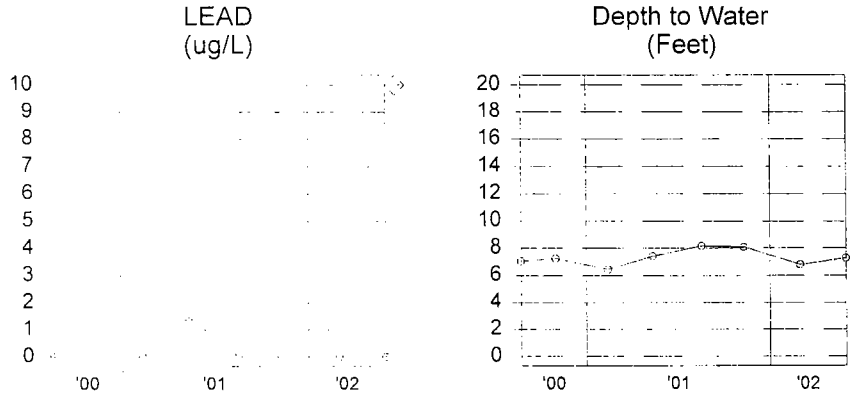
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 05/28/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-18-2002 x:\mtech46\fm\2567\gw\2567.wsf

	LAB	Depth to Water								NOTES
Units:	-	Feet								-
NJDEP Criteria:	-	-								-
08/22/2000	FMETL	6.65								V,Pb
11/02/2000	FMETL	6.80								V,Pb
02/09/2001	FMETL	6.23								V,Pb
05/08/2001	FMETL	7.02								V, Pb
08/15/2001	FMETL	7.75								V, Pb
11/09/2001	FMETL	7.56								V, Pb
02/26/2002	FMETL	6.71								V, Pb
05/28/2002	FMETL	6.83								V,Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 05/28/2002

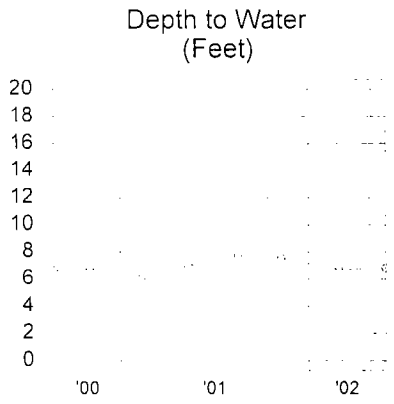
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 05/28/2002

LEGEND:

PARAMETER

○ = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

06-18-2002 x:\mtech46\fm\2567\gw\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-4359 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567 #22

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
2058504	2567MW01	29-26925	08/20/02
2058505	2567MW02	29-26926	08/20/02
2058506	2567MW03	29-26947	08/20/02
2058507	2567MW04	29-26948	08/20/02
2058508	2567MW05	29-31783	08/20/02
2058509	2567MW06	29-42585	08/20/02
2058510	2567MW07	29-42586	08/20/02

NJDEP Laboratory Certification # 13461

10-16-02

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

SAMPLING

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. FALLON
Phone #: X2 83241
( )DERA ( )OMA ( )Other:_____
Project No:
Location: 2567 wells 3rd Qrtr '02
Samplers Name / Company: Corey McCormack, TVS

Comments: HCL/HNO3/24°C

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	VOTIS	Pb						Hnu Read	Remarks / Preservation Method
20585 01	Trip	8/20/02	0800	AQ	2	✓							—	
02	Field Blank		0855		3	✓	✓						—	
03	Dupe		—		3	✓	✓						—	
04	2567 mw01		1026		3	✓	✓						0.0	29-26925
05	2567mw02		1019			✓	✓						0.0	29-26926
06	2567mw03		1255			✓	✓						0.0	29-26947
07	2567mw04 *		1023			✓	✓						0.0	29-26948
08	2567mw05		1400			✓	✓						0.0	29-31783
09	2567mw06		1232			✓	✓						0.0	29-42585
10	2567 mw07		1245			✓	✓						0.0	29-42586

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	8/20/02 1415	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (_)Reduced, (X)Standard, (_)Screen / non-certified, (_)EDD
Turnaround time: (X)Standard 3 wks, (_)Rush ____ Days, (_)ASAP Verbal ____Hrs.

Remarks: Tide: N/A

print legibly

Coc6/27/02

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/20/02
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.45 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.65 ft
(7.65) X .65 X 3 = 14.91
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:20
pH 6.70 su TEMP 15.91 °C
DISSOLVED O_2 3.41 mg/L SPECIFIC CONDUCTIVITY 71.76 ms/cm

PURGE END TIME: 10:25
pH 6.66 su TEMP 14.87 °C
DISSOLVED O_2 2.76 mg/L SPECIFIC CONDUCTIVITY 69.30 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 6.25 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 10:26
pH 6.64 su TEMP 14.84 °C
DISSOLVED O2 2.71 mg/L SPECIFIC CONDUCTIVITY 69.27 ms/cm

SAMPLE END TIME: 10:28

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/20/02
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.13 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.07 ft
(7.07) X .65 X 3 = 13.78
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:17
pH 6.55 su TEMP 15.91 °C
DISSOLVED O_2 3.71 mg/L SPECIFIC CONDUCTIVITY 42.70 ms/cm

PURGE END TIME: 10:18
pH 6.41 su TEMP 14.76 °C
DISSOLVED O_2 2.50 mg/L SPECIFIC CONDUCTIVITY 41.20 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 5.71 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 10:19
pH 6.41 su TEMP 14.71 °C
DISSOLVED O_2 2.47 mg/L SPECIFIC CONDUCTIVITY 40.87 ms/cm

SAMPLE END TIME: 10:21

COMMENTS: Low draindown.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/20/02
WEATHER: Sunny and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.03 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.47 ft
(8.47) X .65 X 3 = 16.51
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 1.00 ppm

PURGE START TIME: 11:40
pH 6.62 su TEMP 17.77 °C
DISSOLVED O_2 4.20 mg/L SPECIFIC CONDUCTIVITY 41.70 ms/cm

PURGE END TIME: 12:54
pH 6.53 su TEMP 16.51 °C
DISSOLVED O_2 3.07 mg/L SPECIFIC CONDUCTIVITY 40.11 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 5.69 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 12:55
pH 6.54 su TEMP 16.47 °C
DISSOLVED O_2 2.91 mg/L SPECIFIC CONDUCTIVITY 39.81 ms/cm

SAMPLE END TIME: 12:57

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/20/02
WEATHER: Sunny and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.96 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.70 ft
(7.70) X .65 X 3 = 15.01
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:15
pH 6.21 su
TEMP 17.21 °C
DISSOLVED O_2 3.00 mg/L
SPECIFIC CONDUCTIVITY 39.90 ms/cm

PURGE END TIME: 10:20
pH 6.07 su
TEMP 16.70 °C
DISSOLVED O_2 2.31 mg/L
SPECIFIC CONDUCTIVITY 36.21 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.13 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 10:23
pH 6.05 su
TEMP 16.66 °C
DISSOLVED O_2 2.31 mg/L
SPECIFIC CONDUCTIVITY 35.87 ms/cm

SAMPLE END TIME: 10:25

COMMENTS: DUP. here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/20/02
WEATHER: Sunny and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 8.03 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 6.72 ft
(6.72) X .65 X 3 = 13.10
GALLONS OF H2O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 13:03
pH 6.81 su TEMP 16.59 °C
DISSOLVED O_2 3.41 mg/L SPECIFIC CONDUCTIVITY 40.11 ms/cm

PURGE END TIME: 13:59
pH 6.73 su TEMP 16.29 °C
DISSOLVED O_2 2.30 mg/L SPECIFIC CONDUCTIVITY 39.21 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 8.71 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 13 gal

SAMPLE START TIME: 14:00
pH 6.73 su TEMP 16.24 °C
DISSOLVED O_2 2.32 mg/L SPECIFIC CONDUCTIVITY 38.76 ms/cm

SAMPLE END TIME: 14:03

COMMENTS: Low draindown.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/20/02
WEATHER: Sunny and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 8.78 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 6.96 ft
(6.96) X .65 X 3 = 13.57
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:30
pH 6.95 su TEMP 16.71 °C
DISSOLVED O_2 3.20 mg/L SPECIFIC CONDUCTIVITY 17.71 ms/cm

PURGE END TIME: 12:31
pH 6.67 su TEMP 15.21 °C
DISSOLVED O_2 2.51 mg/L SPECIFIC CONDUCTIVITY 16.80 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 10:03 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 12:32
pH 6.68 su TEMP 15.17 °C
DISSOLVED O_2 2.04 mg/L SPECIFIC CONDUCTIVITY 16.77 ms/cm

SAMPLE END TIME: 12:34

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 08/20/02
WEATHER: Sunny and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 8.28 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.22 ft
(8.22) X .65 X 3 = 16.02
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:35
pH 6.53 su TEMP 16.71 °C
DISSOLVED O_2 3.00 mg/L SPECIFIC CONDUCTIVITY 44.70 ms/cm

PURGE END TIME: 12:44
pH 6.44 su TEMP 15.50 °C
DISSOLVED O_2 2.07 mg/L SPECIFIC CONDUCTIVITY 39.91 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 9.50 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 12:45
pH 6.43 su TEMP 15.50 °C
DISSOLVED O_2 1.98 mg/L SPECIFIC CONDUCTIVITY 40.20 ms/cm

SAMPLE END TIME: 12:47

COMMENTS:

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	**:**	**Method Detection Limit**
J	**:**	**Compound identified below detection limit**
B	**:**	**Compound found in blank**
D	**:**	**Results are from a dilution of the sample**
U	**:**	**Compound searched for but not detected**
E	**:**	**Compound exceeds calibration limit**
PQL	**:**	**Practical Quantitation Limit**
NLE	**:**	**No limit established**
RT	**:**	**Retention time**

VOLATILE ORGANICS

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011743.D**	Sample Name	**MB 21Aug02**
Operator	**Skelton**	Field ID	**MB 21Aug02**
Date Acquired	**21 Aug 2002 6:52 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

MB 21Aug02

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20585 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: MB 21Aug02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011743.D

Level: (low/med) LOW Date Received: 8/20/02

% Moisture: not dec. Date Analyzed: 8/21/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011745.D**	Sample Name	**2058501**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**21 Aug 2002 8:13 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20585 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2058501

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011745.D

Level: (low/med) LOW Date Received: 8/20/02

% Moisture: not dec. Date Analyzed: 8/21/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011746.D**	Sample Name	**2058502**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**21 Aug 2002 8:53 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20585 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2058502

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011746.D

Level: (low/med) LOW Date Received: 8/20/02

% Moisture: not dec. Date Analyzed: 8/21/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011747.D**	Sample Name	**2058503**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**21 Aug 2002 9:34 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20585 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2058503

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011747.D

Level: (low/med) LOW Date Received: 8/20/02

% Moisture: not dec. Date Analyzed: 8/21/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011748.D**	Sample Name	**2058504**
Operator	**Skelton**	Field ID	**2567MW01**
Date Acquired	**21 Aug 2002 10:14 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	10.34	474420	441.16 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

C:\HPCHEM\Custrpt\Volatile\624fy02.crt

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW01

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20585 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2058504

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011748.D

Level: (low/med) LOW Date Received: 8/20/02

% Moisture: not dec. Date Analyzed: 8/21/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011749.D**	Sample Name	**2058505**
Operator	**Skelton**	Field ID	**2567MW02**
Date Acquired	**21 Aug 2002 10:54 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide	11.31	67176	1.94 ug/L	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW02

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20585 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2058505

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011749.D

Level: (low/med) LOW Date Received: 8/20/02

% Moisture: not dec. Date Analyzed: 8/21/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	33.87	4	J

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011750.D**	Sample Name	**2058506**
Operator	**Skelton**	Field ID	**2567MW03**
Date Acquired	**21 Aug 2002 11:35 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW03

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20585 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2058506

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011750.D

Level: (low/med) LOW Date Received: 8/20/02

% Moisture: not dec. Date Analyzed: 8/21/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 8

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.46	9	J
2.	unknown	6.53	3	J
3. 000763-29-1	1-Pentene, 2-methyl-	15.34	27	JN
4.	unknown	17.57	5	J
5. 000098-82-8	Benzene, (1-methylethyl)-	29.73	4	JN
6.	unknown	30.72	5	J
7. 000091-20-3	Naphthalene	31.12	4	JN
8.	unknown	33.86	13	J

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011751.D**	Sample Name	**2058507**
Operator	**Skelton**	Field ID	**2567MW04**
Date Acquired	**22 Aug 2002 12:15 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW04

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20585 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2058507

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011751.D

Level: (low/med) LOW Date Received: 8/20/02

% Moisture: not dec. _____ Date Analyzed: 8/22/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011752.D**	Sample Name	**2058508**
Operator	**Skelton**	Field ID	**2567MW05**
Date Acquired	**22 Aug 2002 12:56 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW05

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20585 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2058508

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011752.D

Level: (low/med) LOW Date Received: 8/20/02

% Moisture: not dec. _____ Date Analyzed: 8/22/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011753.D**	Sample Name	**2058509**
Operator	**Skelton**	Field ID	**2567MW06**
Date Acquired	**22 Aug 2002 1:36 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW06

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20585 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2058509

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011753.D

Level: (low/med) LOW Date Received: 8/20/02

% Moisture: not dec. _____ Date Analyzed: 8/22/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB011754.D**	Sample Name	**2058510**
Operator	**Skelton**	Field ID	**2567MW07**
Date Acquired	**22 Aug 2002 2:17 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW07

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 20585 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2058510

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB011754.D

Level: (low/med) LOW Date Received: 8/20/02

% Moisture: not dec. _____ Date Analyzed: 8/22/02

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #:
Sample Received: NA
Analysis Start: 8/30/02
Analysis Completed: 9/05/02

Site: Ft. Monmouth
2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2058501-10
Sample Received: 8/20/02
Analysis Start: 8/30/02
Analysis Completed: 9/05/02

Site: Ft. Monmouth
2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
2058502	Field Blank	ND	10	0.8
2058503	Dupe	ND	10	0.8
2058504	2567MW01	ND	10	0.8
2058505	2567MW02	ND	10	0.8
2058506	2567MW03	ND	10	0.8
2058507	2567MW04	ND	10	0.8
2058508	2567MW05	32.3	10	0.8
2058509	2567MW06	1.32	10	0.8
20585010	2567MW07	ND	10	0.8

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
12/10/1991	ENV PRO	4	2400	42	4400	2200	-				-
10/26/1992	ENV PRO	ND	2800	302	5400	1200	-				-
10/26/1992D	ENV PRO	ND	3200	57	7000	1500	-				-
04/21/1993	21st CEN	70	520	ND	470	890	-				-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	-				BNA Only
02/03/1994	21st CEN	ND	21	41	28	650	-				-
03/31/1994	21st CEN	ND	ND	ND	22	10	-				-
06/14/1994	21st CEN	ND	ND	ND	120	88	-				-
09/15/1994	21st CEN	ND	ND	ND	600	56	-				-
05/25/1995	EMSL	ND	ND	ND	930	110	-				-
08/15/1995	EMSL	3.3	ND	ND	930	29	-				-
11/21/1995	EMSL	ND	ND	ND	860	80	-				-
02/20/1996	EMSL	4	ND	ND	780	100	-				-
06/13/1996	FMETL	1.2	ND	ND	ND	ND	-				-
09/27/1996	FMETL	ND	ND	ND	ND	ND	-				-
04/11/1997	FMETL	2.5	ND	ND	ND	ND	3.80				V,Pb
08/28/1997	FMETL	1.4	39.4	72.7	ND	240	4.80				V,Pb
12/02/1997	FMETL	7.0	ND	ND	357	20.3	3.90				V,S,P,M
03/04/1998	FMETL	ND	ND	ND	560	37	3.51				V,S,P,M
06/01/1998	FMETL	0.5	ND	ND	95.63	24.23	4.06				V,Pb
09/24/1998	FMETL	ND	ND	ND	283	10.02	5.21				V,Pb
12/09/1998	FMETL	ND	ND	ND	143.26	3.43	4.90				V,Pb
02/24/1999	FMETL	ND	ND	ND	675	26.15	3.75				V,Pb
05/29/1999	FMETL	ND	ND	ND	605.1	9.16	4.20				V,Pb
07/21/1999	FMETL	ND	ND	ND	155.56	3.33	5.48				V,Pb
10/21/1999	FMETL	1.3	ND	ND	497.3	4.8	4.03				V,Pb
02/14/2000	FMETL	1.31	ND	ND	992	8.2	3.31				V,Pb
05/15/2000	FMETL	ND	ND	ND	458.88	5.24	4.04				V,Pb
08/22/2000	FMETL	ND	ND	ND	218.42	1.20	3.87				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	15.04	4.24				V,Pb
11/01/2000D	FMETL	ND	ND	ND	ND	15.33	4.24				V,Pb
02/09/2001	FMETL	ND	ND	ND	1488.05	4.83	3.30				V,Pb
05/08/2001	FMETL	0.93	ND	ND	764.25	2.10	4.15				V, Pb
08/15/2001	FMETL	ND	ND	ND	248.74	ND	4.95				V, Pb
08/15/2001D	FMETL	ND	ND	ND	457.64	1.54	4.95				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	1.09	5.11				V, Pb
02/26/2002	FMETL	ND	ND	ND	859.38	1.61	3.95				V, Pb
05/28/2002	FMETL	ND	ND	ND	331.75	ND	4.09				V,Pb
08/20/2002	FMETL	ND	ND	ND	441.16	ND	5.45				V, Pb

10-16-2002 X:\MtechData\2567\2567.wsf

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/20/2002

NOTES:

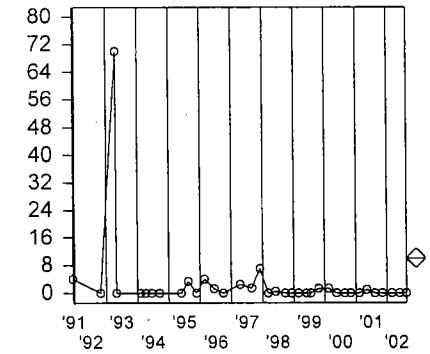
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

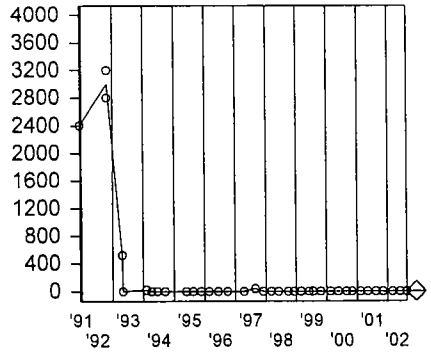
Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

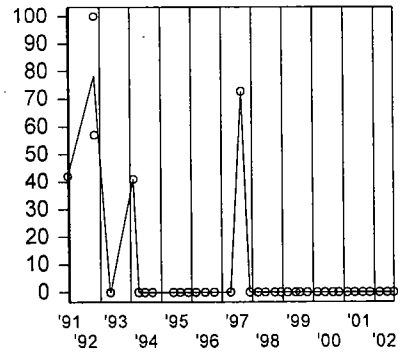
LEAD
(ug/L)



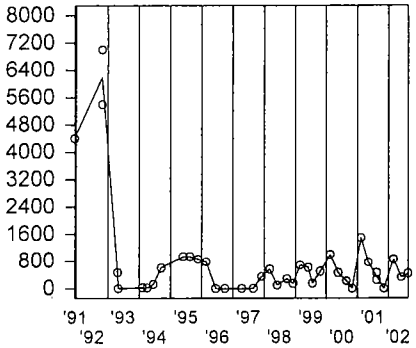
BENZENE
(ug/L)



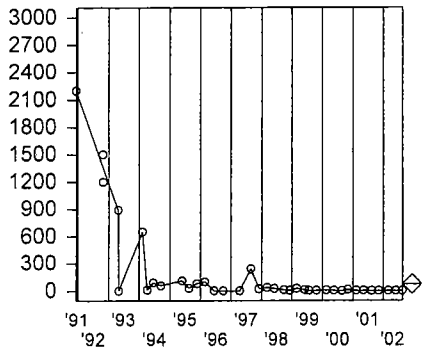
XYLENE
(ug/L)



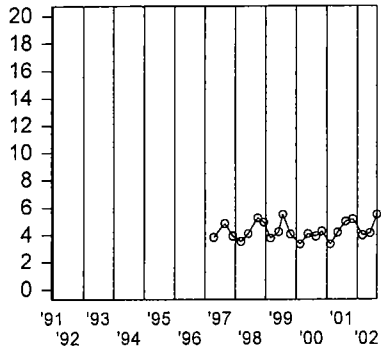
TERT-BUTYL ALCOHOL
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 08/20/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

10-16-2002 X:\MtechData\2567\2567.wsf

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
12/10/1991	ENV PRO	ND	3	ND	ND	ND	-				-
10/26/1992	ENV PRO	11	ND	3	ND	ND	-				-
04/21/1993	ENV PRO	ND	ND	2.0	ND	ND	-				-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	-				BNA Only
02/03/1994	21st CEN	260	19	43	ND	7.0	-				-
03/31/1994	21st CEN	ND	ND	2.5	ND	11	-				-
06/14/1994	21st CEN	ND	ND	3.0	ND	11	-				-
09/15/1994	21st CEN	ND	ND	5.5	ND	4.1	-				-
05/25/1995	EMSL	ND	ND	6.5	ND	3.1	-				-
08/15/1995	EMSL	5.6	ND	5.3	ND	2.5	-				-
11/21/1995	EMSL	ND	ND	3.6	ND	1.6	-				-
02/20/1996	EMSL	ND	ND	4.2	ND	2	-				-
06/13/1996	FMETL	ND	ND	ND	ND	ND	-				-
09/27/1996	FMETL	1.2	ND	ND	ND	ND	-				-
04/11/1997	FMETL	10.7	ND	ND	ND	ND	3.40				V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	4.30				V,Pb
12/02/1997	FMETL	20	ND	ND	ND	ND	3.45				V,S,P,M
03/04/1998	FMETL	8.0	ND	ND	ND	ND	2.92				V,S,P,M
06/01/1998	FMETL	1.4	ND	ND	ND	ND	3.59				V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	4.73				V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	3.42				V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	3.38				V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	3.83				V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	5.03				V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	3.65				V,Pb
02/14/2000	FMETL	1.49	ND	ND	ND	ND	3.00				V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	3.77				V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	3.51				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	4.15				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	2.75				V,Pb
05/08/2001	FMETL	1.02	ND	ND	ND	ND	3.95				V, Pb
08/15/2001	FMETL	ND	ND	ND	ND	ND	4.65				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	ND	4.81				V, Pb
11/09/2001D	FMETL	ND	ND	ND	ND	ND	4.81				V, Pb
02/26/2002	FMETL	ND	ND	ND	ND	ND	3.86				V, Pb
05/28/2002	FMETL	ND	ND	ND	ND	ND	3.83				V,Pb
08/20/2002	FMETL	ND	ND	ND	ND	ND	5.13				V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 08/20/2002

NOTES:

FORT MONMOUTH

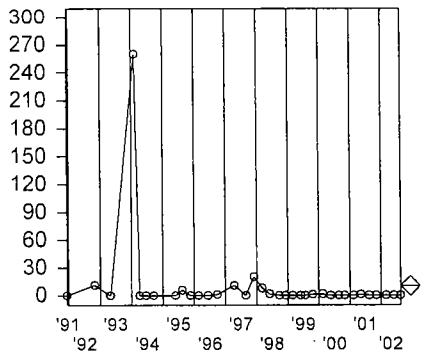
GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7

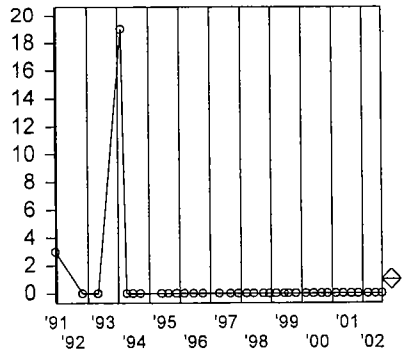
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

10-16-2002 X:\MtechData\2567\2567.wsf

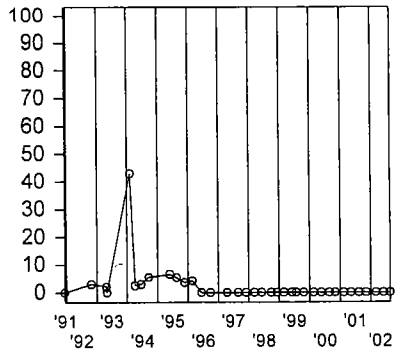
LEAD
(ug/L)



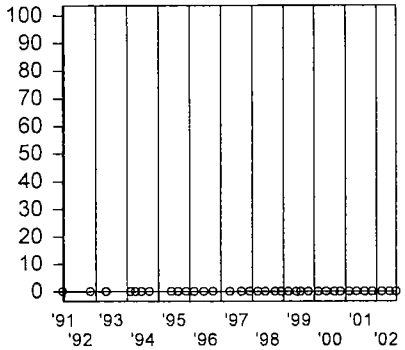
BENZENE
(ug/L)



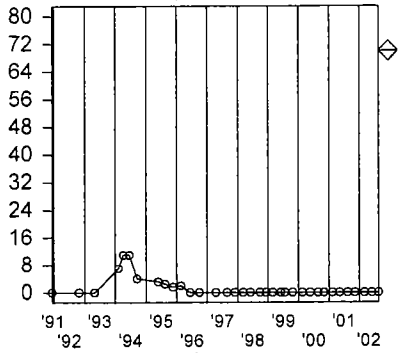
XYLENE
(ug/L)



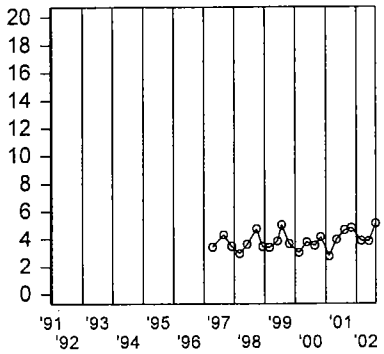
TERT-BUTYL ALCOHOL
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 08/20/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

10-16-2002 X:\MtechData\2567\2567.wsf

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
12/10/1991	ENV PRO	ND	110	200	ND	69	-				-
10/26/1992	ENV PRO	5	ND	3	ND	ND	-				-
04/21/1993	ENV PRO	60	180	74.2	ND	27	-				-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	-				BNA Only
02/03/1994	21st CEN	41	19	65	ND	9.1	-				-
03/31/1994	21st CEN	25	ND	ND	ND	ND	-				-
06/14/1994	21st CEN	3	15	3.4	ND	100	-				-
09/15/1994	21st CEN	ND	ND	1.4	ND	61	-				-
05/25/1995	EMSL	2.7	94	190	ND	400	-				-
08/15/1995	EMSL	ND	89	360	ND	670	-				-
11/21/1995	EMSL	ND	35	91	46	360	-				-
02/20/1996	EMSL	6	40	70	43	250	-				-
06/13/1996	FMETL	0.7	ND	ND	ND	ND	-				-
09/27/1996	FMETL	6.2	ND	ND	ND	ND	-				-
04/11/1997	FMETL	1.8	ND	ND	ND	ND	3.15				V,Pb
08/28/1997	FMETL	ND	ND	ND	940	62	4.00				V,Pb
12/02/1997	FMETL	10	4.31	ND	ND	188	3.10				V,S,P,M
03/04/1998	FMETL	ND	19	8.6	ND	102	2.48				V,S,P,M
06/19/1998	FMETL	ND	4.68	ND	27.52	81.82	3.99				V,Pb
09/25/1998	FMETL	ND	5.96	3.62	ND	27.27	4.56				V,Pb
12/16/1998	FMETL	ND	15.45	3.67	19.38	20.54	4.25				V,Pb
02/24/1999	FMETL	1.0	1.03	ND	ND	3.3	3.16				V,Pb
05/29/1999	FMETL	ND	1.70	1.29	ND	26.34	3.55				V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	8.98	4.85				V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	13.08	3.93				V,Pb
02/14/2000	FMETL	1.22	ND	ND	ND	3.78	3.42				V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	9.35	3.40				V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	5.36	3.17				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	20.24	3.56				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	1.96	2.50				V,Pb
05/08/2001	FMETL	0.96	ND	ND	ND	11.95	3.40				V, Pb
08/15/2001	FMETL	ND	ND	ND	67.42	17.8	4.30				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	5.51	4.30				V, Pb
02/26/2002	FMETL	ND	ND	ND	31.59	4.14	3.29				V, Pb
05/28/2002	FMETL	ND	ND	ND	ND	3.13	3.40				V,Pb
08/20/2002	FMETL	ND	ND	ND	ND	ND	4.03				V, Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 08/20/2002

NOTES:

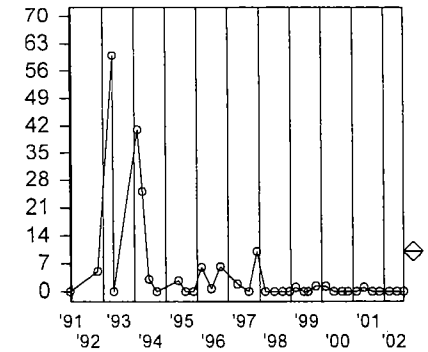
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

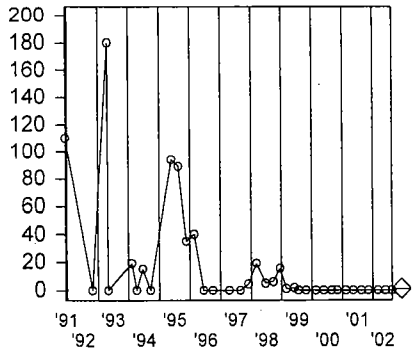
Source 3 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

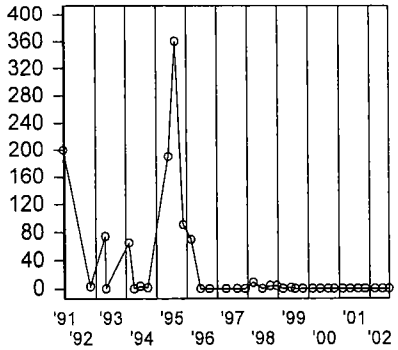
LEAD
(ug/L)



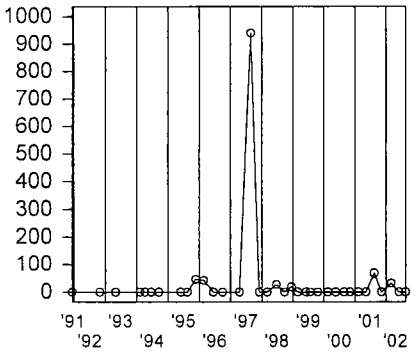
BENZENE
(ug/L)



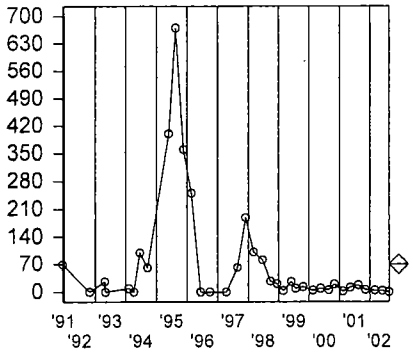
XYLENE
(ug/L)



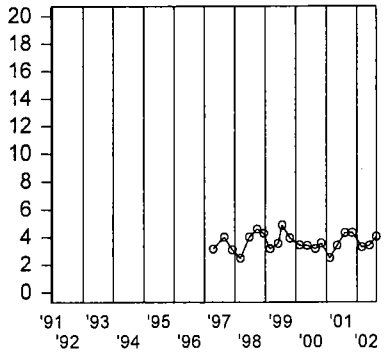
TERT-BUTYL ALCOHOL
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 08/20/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

10-16-2002 X:\MtechData\2567\2567.wsf

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
12/10/1991	EMSL	5	ND	ND	ND	ND	-				-
10/26/1992	ENV PRO	ND	ND	ND	ND	ND	-				-
04/21/1993	ENV PRO	ND	ND	ND	ND	ND	-				-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	-				BNA Only
02/03/1994	21st CEN	ND	14	60	ND	ND	-				-
03/31/1994	21st CEN	ND	ND	ND	ND	1.3	-				-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	-				-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	-				-
05/25/1995	EMSL	ND	ND	ND	ND	ND	-				-
08/15/1995	EMSL	2.6	ND	ND	ND	ND	-				-
11/21/1995	EMSL	ND	ND	ND	ND	ND	-				-
02/20/1996	EMSL	ND	ND	ND	ND	ND	-				-
06/13/1996	FMETL	1.8	ND	ND	-	-	-				-
09/27/1996	FMETL	ND	ND	ND	-	-	-				-
04/11/1997	FMETL	2.3	ND	ND	-	-	2.55				V,Pb
08/28/1997	FMETL	ND	ND	ND	-	-	3.20				V,Pb
12/02/1997	FMETL	9.0	ND	ND	-	-	2.45				V,S,P,M
03/04/1998	FMETL	ND	ND	ND	-	-	2.11				V,S,P,M
06/19/1998	FMETL	ND	ND	ND	-	-	2.33				V,Pb
09/24/1998	FMETL	ND	ND	ND	-	-	3.55				V,Pb
12/12/1998	FMETL	ND	ND	ND	-	-	3.11				V,Pb
02/24/1999	FMETL	ND	ND	ND	-	-	2.44				V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	2.76				V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	3.98				V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	2.37				V,Pb
02/14/2000	FMETL	1.4	ND	ND	ND	ND	1.69				V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	2.65				V,Pb
05/15/2000D	FMETL	ND	ND	ND	ND	ND	2.65				V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	2.49				V,Pb
08/22/2000D	FMETL	ND	ND	ND	ND	ND	2.49				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	2.91				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	1.99				V,Pb
02/09/2001D	FMETL	ND	ND	ND	ND	ND	1.99				V,Pb
05/08/2001	FMETL	ND	ND	ND	ND	ND	2.68				V, Pb
05/08/2001D	FMETL	1.26	ND	ND	ND	ND	2.68				V, Pb
08/15/2001	FMETL	2.2	ND	ND	ND	ND	3.50				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	ND	3.65				V, Pb
02/26/2002	FMETL	ND	ND	ND	ND	ND	2.71				V, Pb
05/28/2002	FMETL	ND	ND	ND	ND	ND	2.83				V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 08/20/2002

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

10-16-2002 X:\MtechData\2567\2567.wsf

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
08/20/2002	FMETL	ND	ND	ND	ND	ND	3.96				V, Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 08/20/2002

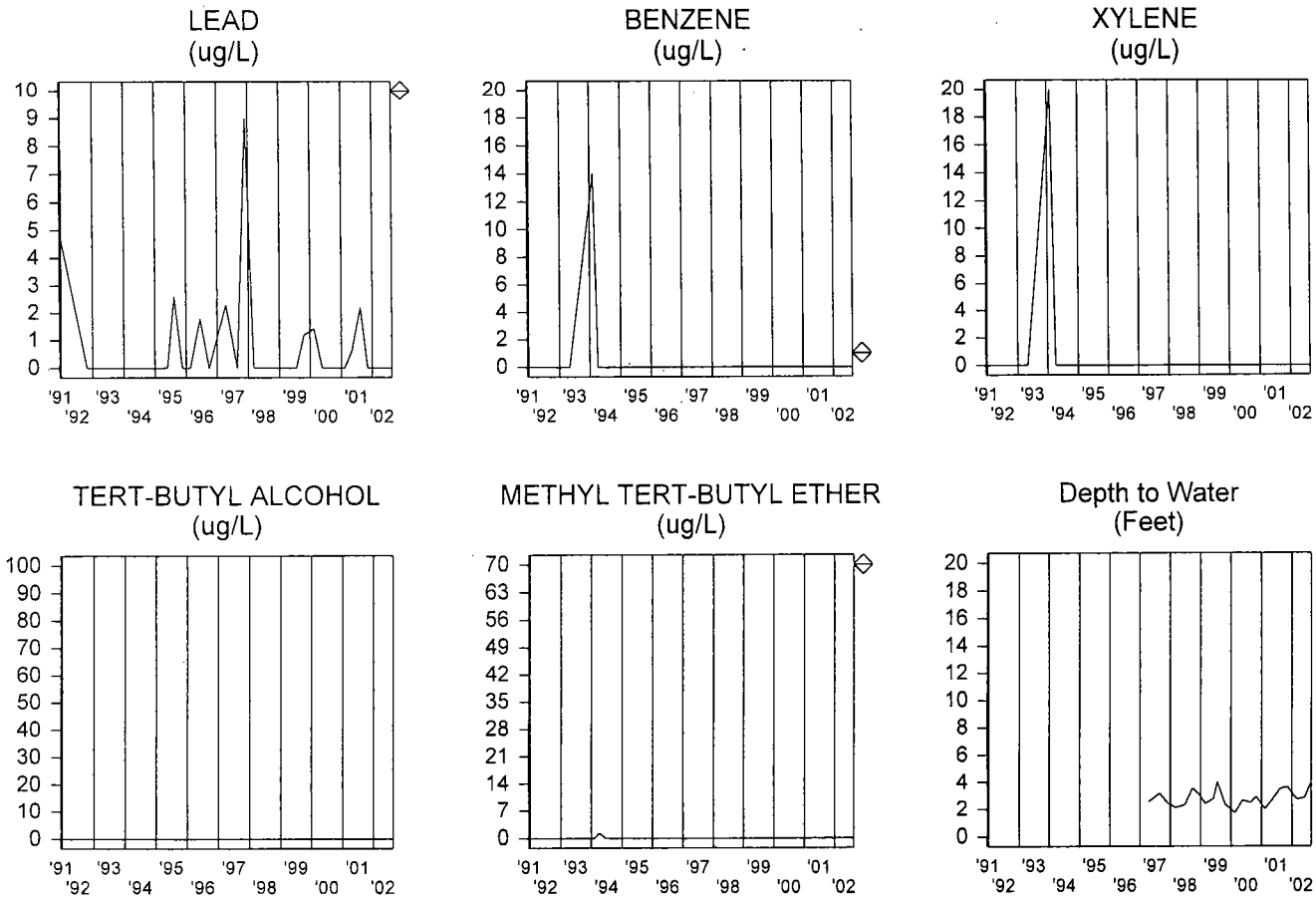
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 08/20/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

10-16-2002 X:\MtechData\2567\2567.wsf

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
05/25/1995	EMSL	4.0	ND	ND	ND	ND	-				-
08/15/1995	EMSL	ND	ND	ND	ND	ND	-				-
11/21/1995	EMSL	ND	ND	ND	ND	ND	-				-
02/20/1996	EMSL	ND	ND	ND	ND	ND	-				-
09/27/1996	FMETL	ND	-	-	-	-	-				-
04/11/1997	FMETL	2.7	-	-	-	-	7.20				V,Pb
08/28/1997	FMETL	ND	-	-	-	-	7.50				V,Pb
12/02/1997	FMETL	7.0	-	-	-	-	7.20				V,S,P,M
03/04/1998	FMETL	ND	-	-	-	-	7.30				V,S,P,M
06/01/1998	FMETL	ND	-	-	-	-	7.55				V,Pb
09/25/1998	FMETL	ND	-	-	-	-	7.59				V,Pb
12/16/1998	FMETL	ND	-	-	-	-	7.34				V,Pb
02/24/1999	FMETL	ND	-	-	-	-	8.16				V,Pb
06/08/1999	FMETL	ND	ND	ND	ND	ND	7.33				V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	7.87				V,Pb
10/21/1999	FMETL	4.4	ND	ND	ND	ND	8.57				V,Pb
02/14/2000	FMETL	1.21	ND	ND	ND	ND	5.75				V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	6.92				V,Pb
08/22/2000	FMETL	1.6	ND	ND	ND	ND	6.73				V,Pb
11/01/2000	FMETL	2.4	ND	ND	ND	ND	7.16				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	5.26				V,Pb
05/08/2001	FMETL	4.53	ND	ND	ND	ND	7.47				V, Pb
08/15/2001	FMETL	8.4	ND	ND	ND	ND	7.70				V, Pb
11/09/2001	FMETL	9.7	ND	ND	ND	ND	7.83				V, Pb
02/26/2002	FMETL	6.5	ND	ND	ND	ND	6.95				V, Pb
05/28/2002	FMETL	3.60	ND	ND	ND	ND	5.91				V,Pb
08/20/2002	FMETL	32.3	ND	ND	ND	ND	8.03				V, Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 08/20/2002

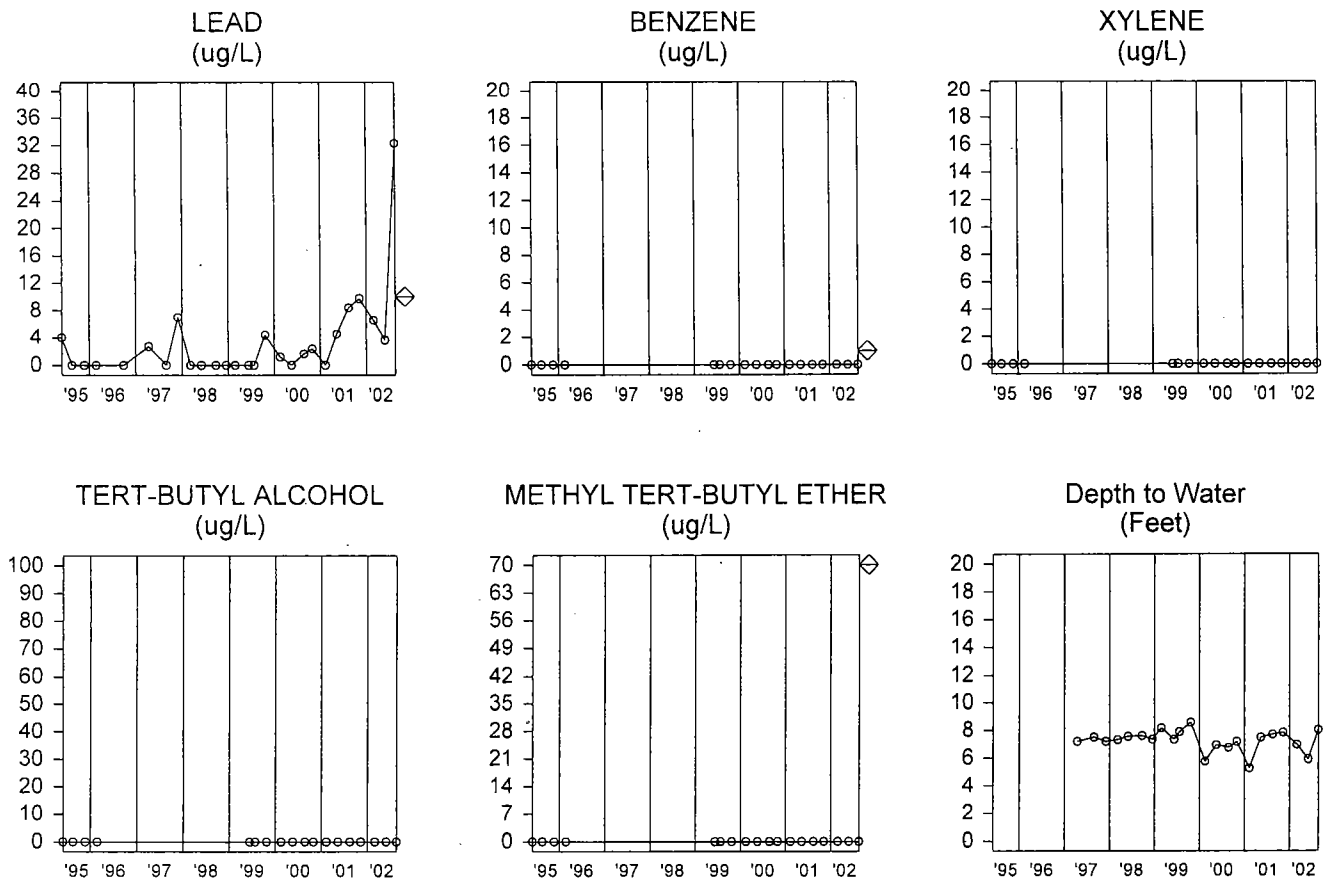
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 08/20/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

10-16-2002 X:\MtechData\2567\2567.wsf

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
08/22/2000	FMETL	ND	ND	ND	ND	ND	7.06				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	7.26				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	6.44				V,Pb
05/08/2001	FMETL	1.48	ND	ND	ND	ND	7.42				V, Pb
08/15/2001	FMETL	ND	ND	ND	ND	ND	8.15				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	ND	8.09				V, Pb
02/26/2002	FMETL	ND	ND	ND	ND	ND	6.82				V, Pb
05/28/2002	FMETL	ND	ND	ND	ND	ND	7.29				V,Pb
08/20/2002	FMETL	1.32	ND	ND	ND	ND	8.78				V, Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 08/20/2002

NOTES:

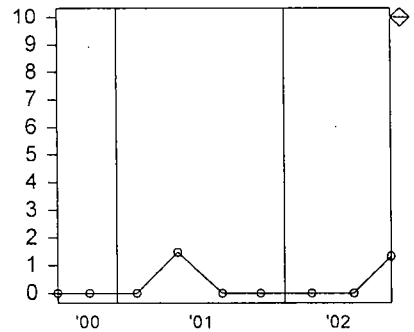
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

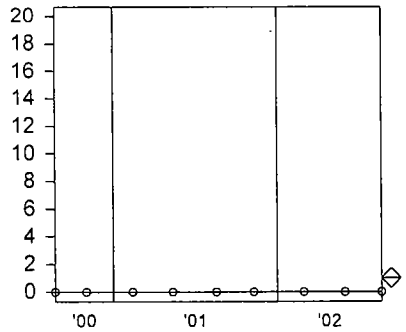
Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

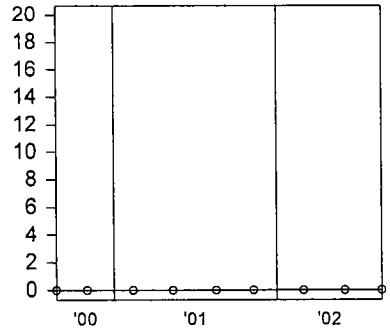
LEAD
(ug/L)



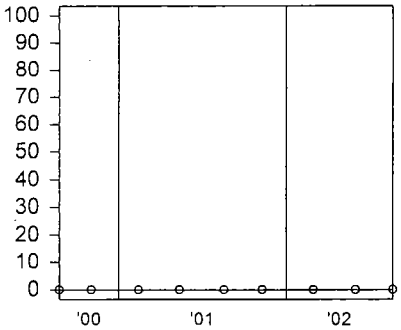
BENZENE
(ug/L)



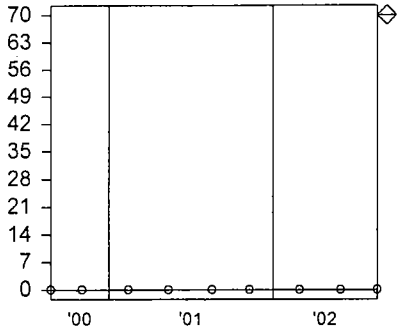
XYLENE
(ug/L)



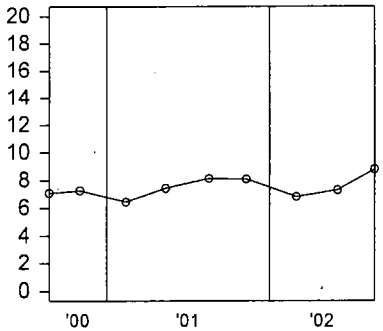
TERT-BUTYL ALCOHOL
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 08/20/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

10-16-2002 X:\MtechData\2567\2567.wsf

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
08/22/2000	FMETL	ND	ND	ND	ND	ND	6.65				V,Pb
11/02/2000	FMETL	ND	ND	ND	ND	ND	6.80				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	6.23				V,Pb
05/08/2001	FMETL	ND	ND	ND	ND	ND	7.02				V, Pb
08/15/2001	FMETL	ND	ND	ND	ND	ND	7.75				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	ND	7.56				V, Pb
02/26/2002	FMETL	ND	ND	ND	ND	ND	6.71				V, Pb
05/28/2002	FMETL	ND	ND	ND	ND	ND	6.83				V,Pb
08/20/2002	FMETL	ND	ND	ND	ND	ND	8.28				V, Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 08/20/2002

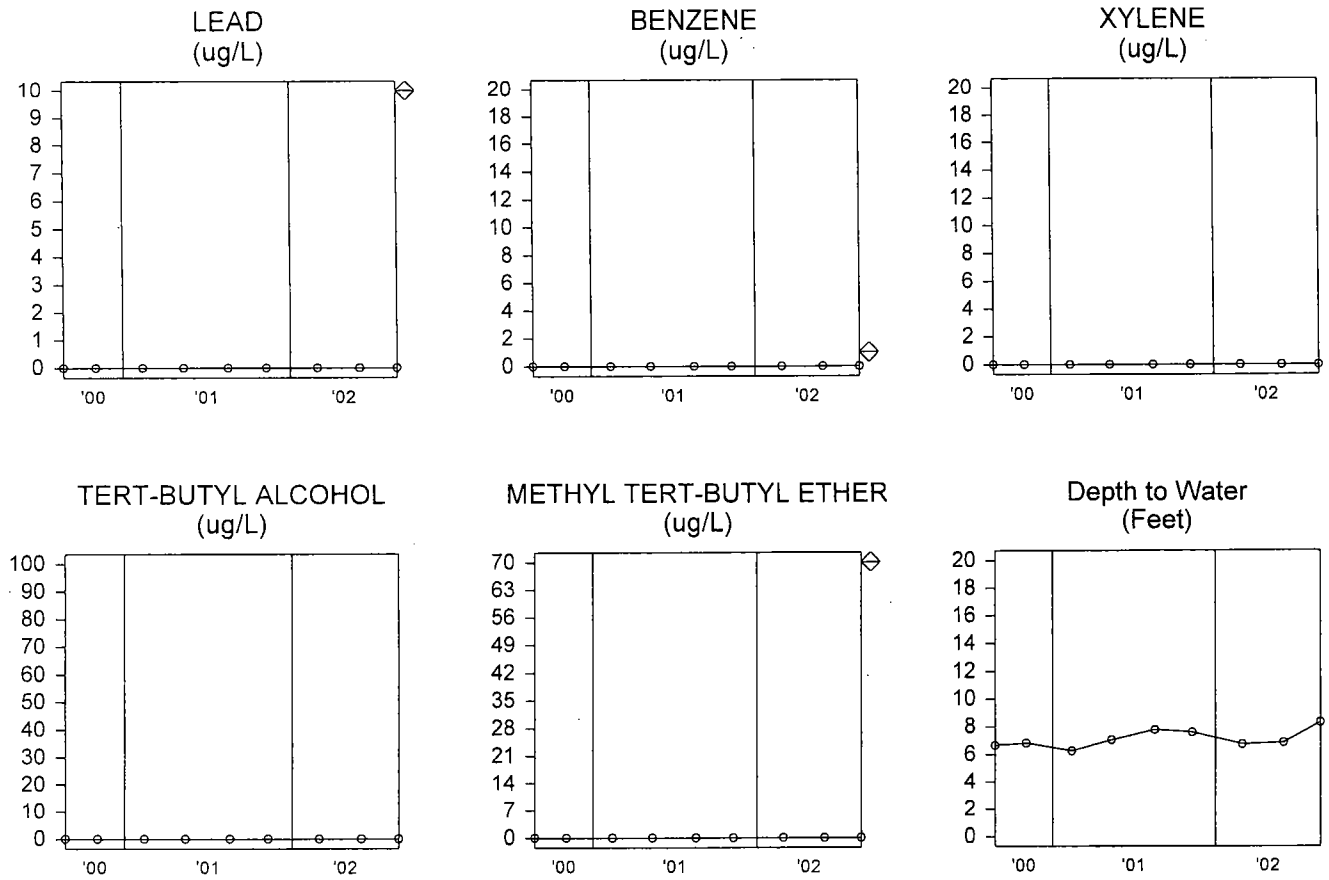
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 08/20/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

10-16-2002 X:\MtechData\2567\2567.wsf

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-4359 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567 #23

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
2076204	2567MW01	29-26925	10/28/02
2076205	2567MW02	29-26926	10/28/02
2076206	2567MW03	29-26947	10/28/02
2076207	2567MW04	29-26948	10/28/02
2076208	2567MW05	29-31783	10/28/02
2076209	2567MW06	29-42585	10/28/02
2076210	2567MW07	29-42586	10/28/02

NJDEP Laboratory Certification # 13461

2-10-03

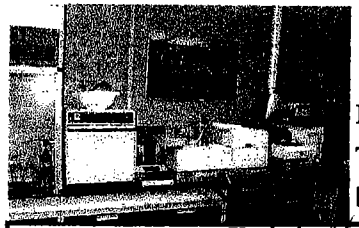
Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: 1226223
(✓)DERA ( )OMA ( )Other:_____

Project No:
Location: 2567 wells
4th Qtr '02

Samplers Name / Company:

Analysis Parameters: VOTIS, Pb, HNU Read

Comments: HCL/HNO3/4°C

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	VOTIS	Pb						HNU Read	Remarks / Preservation Method
207102 01	Trip	10/29/02	0730	AQ	2	✓							—	
02	Field Blank		1130		3	✓	✓						—	
03	Dupe		—		3	✓	✓						—	
04	2567 mw01		~~1004~~ 1309 HV 10/29		3	✓	✓						0.0	29-26925
05	2567 mw02		1313			✓	✓						0.0	29-26926
06	2567 mw03		1310			✓	✓						~~0.0~~ .02 HV 10/29/02	29-26947
07	2567 mw04 *		1006			✓	✓						0.0	29-26948
08	2567 mw05					✓	✓						0.0	29-~~26~~ 31783
09	2567 mw06		1149			✓	✓						0.0	29-42585
10	2567 mw07		1145			✓	✓						0.0	29-42586

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
H. Vogelson	10/29/02 1515	J. Clayton			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (_)Reduced, (✓)Standard, (_)Screen / non-certified, (_)EDD
Turnaround time: (✓)Standard 3 wks, (_)Rush ____ Days, (_)ASAP Verbal ____Hrs.

Remarks: Tide: N/A

print legibly

Coc9/17/02

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/29/02
WEATHER: Overcast and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.62 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.48 ft
(9.48) X .65 X 3 = 18.49
GALLONS OF H_2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:50
pH 5.59 su
DISSOLVED O_2 0.08 mg/L
TEMP 19.26 °C
SPECIFIC CONDUCTIVITY 477.9 ms/cm

PURGE END TIME: 13:08
pH 6.55 su
DISSOLVED O_2 0.00 mg/L
TEMP 19.63 °C
SPECIFIC CONDUCTIVITY 630.5 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.53 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 13:09
pH 6.55 su
DISSOLVED O_2 0.00 mg/L
TEMP 20.00 °C
SPECIFIC CONDUCTIVITY 635.0 ms/cm

SAMPLE END TIME: 13:11

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/29/02
WEATHER: Overcast and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.32 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.88 ft
(8.88) X .65 X 3 = 17.31
GALLONS OF H_2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:55
pH 6.10 su
DISSOLVED O_2 3.13 mg/L
TEMP 17.74 °C
SPECIFIC CONDUCTIVITY 265.5 ms/cm

PURGE END TIME: 13:09
pH 6.37 su
DISSOLVED O_2 0.50 mg/L
TEMP 18.51 °C
SPECIFIC CONDUCTIVITY 334.5 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.80 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 13:13
pH 6.28 su
DISSOLVED O_2 0.29 mg/L
TEMP 19.32 °C
SPECIFIC CONDUCTIVITY 330.9 ms/cm

SAMPLE END TIME: 13:17

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/29/02
WEATHER: Overcast and cold..
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.98 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.52 ft
(9.52) X .65 X 3 = 18.56
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.02 ppm

PURGE START TIME: 11:47
pH 6.40 su
DISSOLVED O_2 10.72 mg/L
TEMP 16.96 °C
SPECIFIC CONDUCTIVITY 148.2 ms/cm

PURGE END TIME: 13:09
pH 6.59 su
DISSOLVED O_2 0.12 mg/L
TEMP 19.65 °C
SPECIFIC CONDUCTIVITY 484.2 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.54 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 13:10
pH 6.49 su
DISSOLVED O_2 0.08 mg/L
TEMP 19.82 °C
SPECIFIC CONDUCTIVITY 484.3 ms/cm

SAMPLE END TIME: 13:12

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/29/02
WEATHER: Sunny and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.26 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.4 ft
(9.4) X .65 X 3 = 18.33
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:47
pH 5.38 su
TEMP 17.02 °C
DISSOLVED O_2 6.27 mg/L
SPECIFIC CONDUCTIVITY 152.0 ms/cm

PURGE END TIME: 10:05
pH 5.21 su
TEMP 17.56 °C
DISSOLVED O_2 0.79 mg/L
SPECIFIC CONDUCTIVITY 368.3 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 2.53 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:06
pH 6.19 su
TEMP 16.60 °C
DISSOLVED O_2 0.63 mg/L
SPECIFIC CONDUCTIVITY 371.5 ms/cm

SAMPLE END TIME: 10:25

COMMENTS: DUP. here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/29/02
WEATHER: Sunny and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.95 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.8 ft
(8.8) X .65 X 3 = 17.16
GALLONS OF H_2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 13:54
pH 6.75 su
TEMP 14.75 °C
DISSOLVED O_2 18.35 mg/L
SPECIFIC CONDUCTIVITY 168.2 ms/cm

PURGE END TIME: 15:08
pH 6.57 su
TEMP 15.23 °C
DISSOLVED O_2 5.03 mg/L
SPECIFIC CONDUCTIVITY 143.7 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 6.37 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 15:09
pH 6.53 su
TEMP 15.14 °C
DISSOLVED O_2 5.10 mg/L
SPECIFIC CONDUCTIVITY 142.5 ms/cm

SAMPLE END TIME: 15:12

COMMENTS: Very cloudy and yellow.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/29/02
WEATHER: Sunny and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.62 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.12 ft
(9.12) X .65 X 3 = 17.78
GALLONS OF H_2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:30
pH 3.10 su
DISSOLVED O_2 2.58 mg/L
TEMP 15.11 °C
SPECIFIC CONDUCTIVITY 280.8 ms/cm

PURGE END TIME: 11:48
pH 3.40 su
DISSOLVED O_2 2.15 mg/L
TEMP 15.12 °C
SPECIFIC CONDUCTIVITY 274.4 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 7.80 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 11:49
pH 3.27 su
DISSOLVED O_2 1.17 mg/L
TEMP 15.16 °C
SPECIFIC CONDUCTIVITY 277.5 ms/cm

SAMPLE END TIME: 11:54

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/29/02
WEATHER: Partly cloudy and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.40 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 10.1 ft
(19.1) X .65 X 3 = 19.69
GALLONS OF H2O TO BE PURGED: 20 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:17
pH 5.61 su TEMP 16.50 °C
DISSOLVED O_2 9.29 mg/L SPECIFIC CONDUCTIVITY 180.5 ms/cm

PURGE END TIME: 11:44
pH 5.16 su TEMP 16.49 °C
DISSOLVED O_2 0.43 mg/L SPECIFIC CONDUCTIVITY 352.9 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 8.43 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 20 gal

SAMPLE START TIME: 11:45
pH 5.42 su TEMP 16.47 °C
DISSOLVED O_2 0.39 mg/L SPECIFIC CONDUCTIVITY 304.0 ms/cm

SAMPLE END TIME: 11:49

COMMENTS:

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	**:**	**Method Detection Limit**
J	**:**	**Compound identified below detection limit**
B	**:**	**Compound found in blank**
D	**:**	**Results are from a dilution of the sample**
U	**:**	**Compound searched for but not detected**
E	**:**	**Compound exceeds calibration limit**
PQL	**:**	**Practical Quantitation Limit**
NLE	**:**	**No limit established**
RT	**:**	**Retention time**

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC008752.D**	Sample Name	**MB 06Nov02**
Operator	**Skelton**	Field ID	**MB 06Nov02**
Date Aquired	**6-Nov-02**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MB 06Nov02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 20762 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: MB 06Nov02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC008752.D

Level: (low/med) LOW Date Received: 10/29/02

% Moisture: not dec. _____ Date Analyzed: 11/6/02

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC008772.D**	Sample Name	**2076201**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Aquired	**7-Nov-02**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 20762 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2076201

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC008772.D

Level: (low/med) LOW Date Received: 10/29/02

% Moisture: not dec. Date Analyzed: 11/7/02

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC008773.D**	Sample Name	**2076202**
Operator	**Skelton**	Field ID	**Field Blank**
Date Aquired	**7-Nov-02**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 20762 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2076202

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC008773.D

Level: (low/med) LOW Date Received: 10/29/02

% Moisture: not dec. _____ Date Analyzed: 11/7/02

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC008774.D**	Sample Name	**2076203**
Operator	**Skelton**	Field ID	**Dupe**
Date Aquired	**7-Nov-02**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 20762 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2076203

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC008774.D

Level: (low/med) LOW Date Received: 10/29/02

% Moisture: not dec. Date Analyzed: 11/7/02

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC008775.D**	Sample Name	**2076204**
Operator	**Skelton**	Field ID	**2567MW01**
Date Aquired	**7-Nov-02**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	12.29	285107	259.69 ug/L	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 20762 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2076204

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC008775.D

Level: (low/med) LOW Date Received: 10/29/02

% Moisture: not dec. _____ Date Analyzed: 11/7/02

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC008776.D**	Sample Name	**2076205**
Operator	**Skelton**	Field ID	**2567MW02**
Date Aquired	**7-Nov-02**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 20762 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2076205

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC008776.D

Level: (low/med) LOW Date Received: 10/29/02

% Moisture: not dec. Date Analyzed: 11/7/02

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	33.07	6	J

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC008777.D**	Sample Name	**2076206**
Operator	**Skelton**	Field ID	**2567MW03**
Date Aquired	**7-Nov-02**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	12.45	123275	2.37 ug/L	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 20762 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2076206

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC008777.D

Level: (low/med) LOW Date Received: 10/29/02

% Moisture: not dec. Date Analyzed: 11/7/02

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.74	46	J
2. 000109-66-0	Pentane	7.63	15	JN
3.	unknown	11.16	15	J
4. 000107-83-5	Pentane, 2-methyl-	11.34	20	JN
5.	unknown	11.53	17	J
6.	unknown	12.29	25	J
7. 000110-82-7	Cyclohexane	15.33	72	JN
8.	unknown	17.33	20	J
9. 000103-65-1	Benzene, propyl-	30.27	16	JN
10. 000496-11-7	Indane	33.07	34	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC008778.D**	Sample Name	**2076207**
Operator	**Skelton**	Field ID	**2567MW04**
Date Aquired	**7-Nov-02**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 20762 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2076207

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC008778.D

Level: (low/med) LOW Date Received: 10/29/02

% Moisture: not dec. Date Analyzed: 11/7/02

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC008779.D**	Sample Name	**2076208**
Operator	**Skelton**	Field ID	**2567MW05**
Date Aquired	**7-Nov-02**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW05**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 20762 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2076208

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC008779.D

Level: (low/med) LOW Date Received: 10/29/02

% Moisture: not dec. Date Analyzed: 11/7/02

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC008780.D**	Sample Name	**2076209**
Operator	**Skelton**	Field ID	**2567MW06**
Date Aquired	**7-Nov-02**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW06**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 20762 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2076209

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC008780.D

Level: (low/med) LOW Date Received: 10/29/02

% Moisture: not dec. Date Analyzed: 11/7/02

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC008781.D**	Sample Name	**2076210**
Operator	**Skelton**	Field ID	**2567MW07**
Date Aquired	**7-Nov-02**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW07**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 20762 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 2076210

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC008781.D

Level: (low/med) LOW Date Received: 10/29/02

% Moisture: not dec. _____ Date Analyzed: 11/7/02

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #:
Sample Received: NA
Analysis Start: 06/07/02
Analysis Completed: 06/07/02

Site: Ft. Monmouth
2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	1.0

ND = Not Detected, MDL = Method Detection Lim it, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2076202-10
Sample Received: 10/29/02
Analysis Start: 11/05/02
Analysis Completed: 11/05/02

Site: Ft. Monmouth
2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
2076202	Field Blank	1.57	10	1.0
2076203	Dupe	1.70	10	1.0
2076204	2567MW01	1.22	10	1.0
2076205	2567MW02	2.47	10	1.0
2076206	2567MW03	ND	10	1.0
2076207	2567MW04	ND	10	1.0
2076208	2567MW05	49.5	10	1.0
2076209	2567MW06	ND	10	1.0
2076210	2567MW07	ND	10	1.0

ND = Not Detected, MDL = Method Detection Lim it, NA = Not Applicable

LTM

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
12/10/1991	ENV PRO	4	2400	42	4400	2200	-				-
10/26/1992	ENV PRO	ND	2800	302	5400	1200	-				-
10/26/1992D	ENV PRO	ND	3200	57	7000	1500	-				-
04/21/1993	21st CEN	70	520	ND	470	890	-				-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	-				BNA Only
02/03/1994	21st CEN	ND	21	41	28	650	-				-
03/31/1994	21st CEN	ND	ND	ND	22	10	-				-
06/14/1994	21st CEN	ND	ND	ND	120	88	-				-
09/15/1994	21st CEN	ND	ND	ND	600	56	-				-
05/25/1995	EMSL	ND	ND	ND	930	110	-				-
08/15/1995	EMSL	3.3	ND	ND	930	29	-				-
11/21/1995	EMSL	ND	ND	ND	860	80	-				-
02/20/1996	EMSL	4	ND	ND	780	100	-				-
06/13/1996	FMETL	1.2	ND	ND	ND	ND	-				-
09/27/1996	FMETL	ND	ND	ND	ND	ND	-				-
04/11/1997	FMETL	2.5	ND	ND	ND	ND	3.80				V,Pb
08/28/1997	FMETL	1.4	39.4	72.7	ND	240	4.80				V,Pb
12/02/1997	FMETL	7.0	ND	ND	357	20.3	3.90				V,S,P,M
03/04/1998	FMETL	ND	ND	ND	560	37	3.51				V,S,P,M
06/01/1998	FMETL	0.5	ND	ND	95.63	24.23	4.06				V,Pb
09/24/1998	FMETL	ND	ND	ND	283	10.02	5.21				V,Pb
12/09/1998	FMETL	ND	ND	ND	143.26	3.43	4.90				V,Pb
02/24/1999	FMETL	ND	ND	ND	675	26.15	3.75				V,Pb
05/29/1999	FMETL	ND	ND	ND	605.1	9.16	4.20				V,Pb
07/21/1999	FMETL	ND	ND	ND	155.56	3.33	5.48				V,Pb
10/21/1999	FMETL	1.3	ND	ND	497.3	4.8	4.03				V,Pb
02/14/2000	FMETL	1.31	ND	ND	992	8.2	3.31				V,Pb
05/15/2000	FMETL	ND	ND	ND	458.88	5.24	4.04				V,Pb
08/22/2000	FMETL	ND	ND	ND	218.42	1.20	3.87				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	15.04	4.24				V,Pb
11/01/2000D	FMETL	ND	ND	ND	ND	15.33	4.24				V,Pb
02/09/2001	FMETL	ND	ND	ND	1488.05	4.83	3.30				V,Pb
05/08/2001	FMETL	0.93	ND	ND	764.25	2.10	4.15				V, Pb
08/15/2001	FMETL	ND	ND	ND	248.74	ND	4.95				V, Pb
08/15/2001D	FMETL	ND	ND	ND	457.64	1.54	4.95				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	1.09	5.11				V, Pb
02/26/2002	FMETL	ND	ND	ND	859.38	1.61	3.95				V, Pb
05/28/2002	FMETL	ND	ND	ND	331.75	ND	4.09				V,Pb
08/20/2002	FMETL	ND	ND	ND	441.16	ND	5.45				V, Pb

02-10-2003 X:\MtechData\2567\2567.WSF

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 10/29/2002

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
10/29/2002	FMETL	1.22	ND	ND	259.69	ND	3.62				V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 10/29/2002

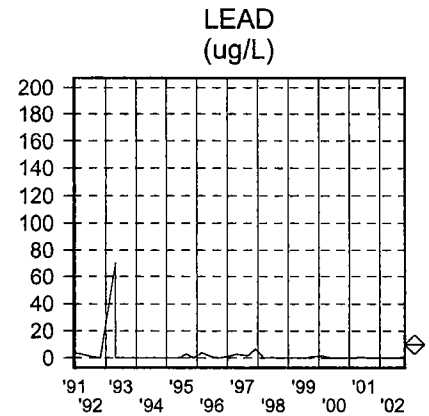
NOTES:

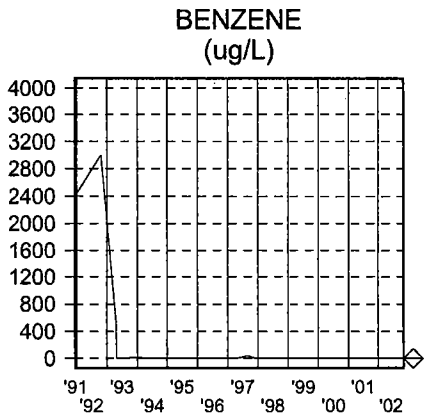
FORT MONMOUTH

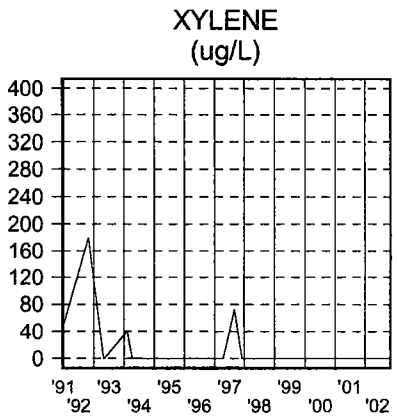
GW MONITORING
Bldg. 2567
Table / Graph A

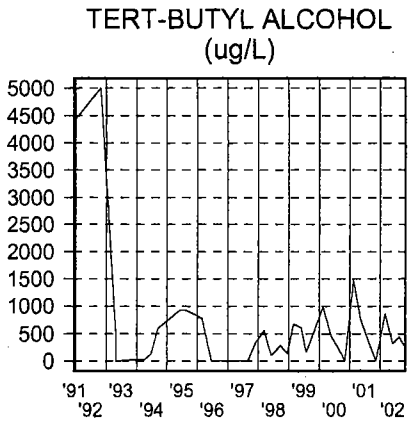
Source 1 of 7 (cont.)

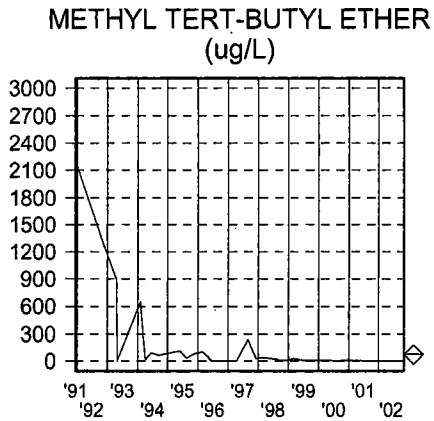
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

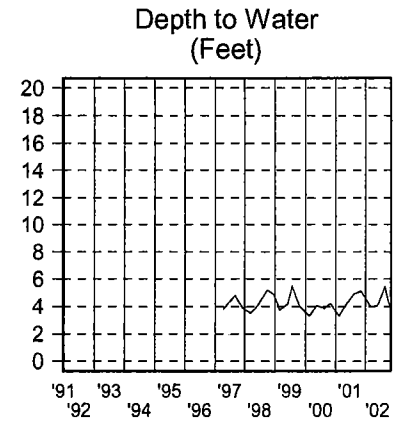












SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 10/29/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
12/10/1991	ENV PRO	ND	3	ND	ND	ND	-				-
10/26/1992	ENV PRO	11	ND	3	ND	ND	-				-
04/21/1993	ENV PRO	ND	ND	2.0	ND	ND	-				-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	-				BNA Only
02/03/1994	21st CEN	260	19	43	ND	7.0	-				-
03/31/1994	21st CEN	ND	ND	2.5	ND	11	-				-
06/14/1994	21st CEN	ND	ND	3.0	ND	11	-				-
09/15/1994	21st CEN	ND	ND	5.5	ND	4.1	-				-
05/25/1995	EMSL	ND	ND	6.5	ND	3.1	-				-
08/15/1995	EMSL	5.6	ND	5.3	ND	2.5	-				-
11/21/1995	EMSL	ND	ND	3.6	ND	1.6	-				-
02/20/1996	EMSL	ND	ND	4.2	ND	2	-				-
06/13/1996	FMETL	ND	ND	ND	ND	ND	-				-
09/27/1996	FMETL	1.2	ND	ND	ND	ND	-				-
04/11/1997	FMETL	10.7	ND	ND	ND	ND	3.40				V,Pb
08/28/1997	FMETL	ND	ND	ND	ND	ND	4.30				V,Pb
12/02/1997	FMETL	20	ND	ND	ND	ND	3.45				V,S,P,M
03/04/1998	FMETL	8.0	ND	ND	ND	ND	2.92				V,S,P,M
06/01/1998	FMETL	1.4	ND	ND	ND	ND	3.59				V,Pb
09/24/1998	FMETL	ND	ND	ND	ND	ND	4.73				V,Pb
12/09/1998	FMETL	ND	ND	ND	ND	ND	3.42				V,Pb
02/24/1999	FMETL	ND	ND	ND	ND	ND	3.38				V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	3.83				V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	5.03				V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	3.65				V,Pb
02/14/2000	FMETL	1.49	ND	ND	ND	ND	3.00				V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	3.77				V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	3.51				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	4.15				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	2.75				V,Pb
05/08/2001	FMETL	1.02	ND	ND	ND	ND	3.95				V, Pb
08/15/2001	FMETL	ND	ND	ND	ND	ND	4.65				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	ND	4.81				V, Pb
11/09/2001D	FMETL	ND	ND	ND	ND	ND	4.81				V, Pb
02/26/2002	FMETL	ND	ND	ND	ND	ND	3.86				V, Pb
05/28/2002	FMETL	ND	ND	ND	ND	ND	3.83				V,Pb
08/20/2002	FMETL	ND	ND	ND	ND	ND	5.13				V, Pb
10/29/2002	FMETL	2.47	ND	ND	ND	ND	3.32				V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 10/29/2002

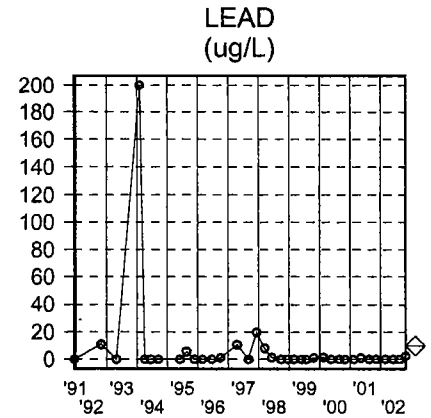
NOTES:

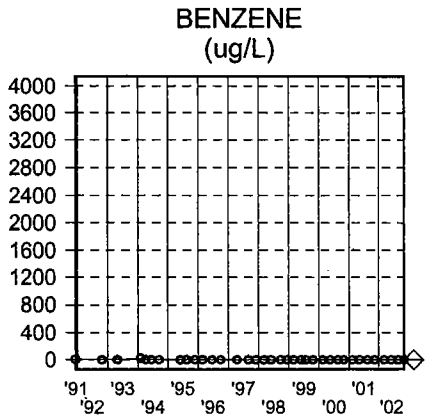
FORT MONMOUTH

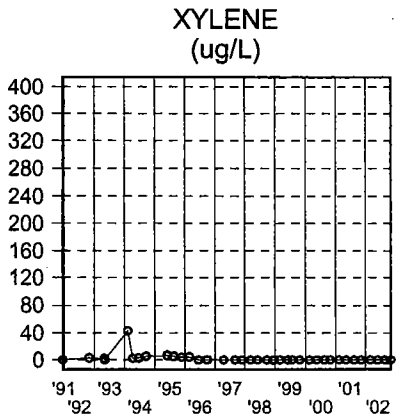
GW MONITORING
Bldg. 2567
Table / Graph A

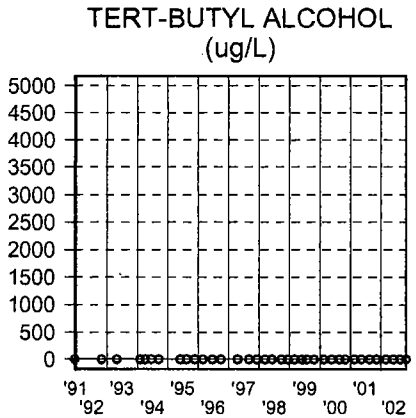
Source 2 of 7

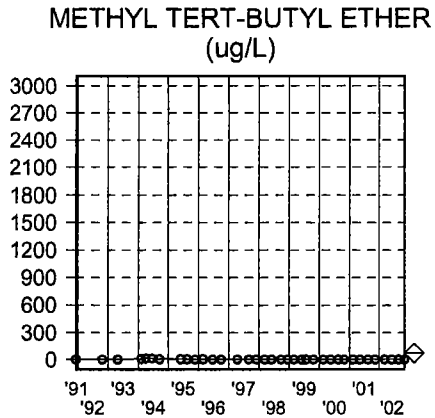
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

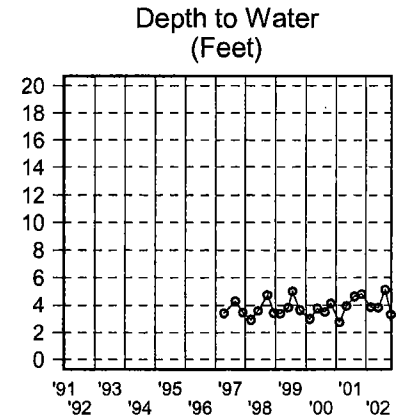












SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 10/29/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

02-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
12/10/1991	ENV PRO	ND	110	200	ND	69	-				-
10/26/1992	ENV PRO	5	ND	3	ND	ND	-				-
04/21/1993	ENV PRO	60	180	74.2	ND	27	-				-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	-				BNA Only
02/03/1994	21st CEN	41	19	65	ND	9.1	-				-
03/31/1994	21st CEN	25	ND	ND	ND	ND	-				-
06/14/1994	21st CEN	3	15	3.4	ND	100	-				-
09/15/1994	21st CEN	ND	ND	1.4	ND	61	-				-
05/25/1995	EMSL	2.7	94	190	ND	400	-				-
08/15/1995	EMSL	ND	89	360	ND	670	-				-
11/21/1995	EMSL	ND	35	91	46	360	-				-
02/20/1996	EMSL	6	40	70	43	250	-				-
06/13/1996	FMETL	0.7	ND	ND	ND	ND	-				-
09/27/1996	FMETL	6.2	ND	ND	ND	ND	-				-
04/11/1997	FMETL	1.8	ND	ND	ND	ND	3.15				V,Pb
08/28/1997	FMETL	ND	ND	ND	940	62	4.00				V,Pb
12/02/1997	FMETL	10	4.31	ND	ND	188	3.10				V,S,P,M
03/04/1998	FMETL	ND	19	8.6	ND	102	2.48				V,S,P,M
06/19/1998	FMETL	ND	4.68	ND	27.52	81.82	3.99				V,Pb
09/25/1998	FMETL	ND	5.96	3.62	ND	27.27	4.56				V,Pb
12/16/1998	FMETL	ND	15.45	3.67	19.38	20.54	4.25				V,Pb
02/24/1999	FMETL	1.0	1.03	ND	ND	3.3	3.16				V,Pb
05/29/1999	FMETL	ND	1.70	1.29	ND	26.34	3.55				V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	8.98	4.85				V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	13.08	3.93				V,Pb
02/14/2000	FMETL	1.22	ND	ND	ND	3.78	3.42				V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	9.35	3.40				V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	5.36	3.17				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	20.24	3.56				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	1.96	2.50				V,Pb
05/08/2001	FMETL	0.96	ND	ND	ND	11.95	3.40				V, Pb
08/15/2001	FMETL	ND	ND	ND	67.42	17.8	4.30				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	5.51	4.30				V, Pb
02/26/2002	FMETL	ND	ND	ND	31.59	4.14	3.29				V, Pb
05/28/2002	FMETL	ND	ND	ND	ND	3.13	3.40				V,Pb
08/20/2002	FMETL	ND	ND	ND	ND	ND	4.03				V, Pb
10/29/2002	FMETL	ND	ND	ND	ND	2.37	2.98				V, Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 10/29/2002

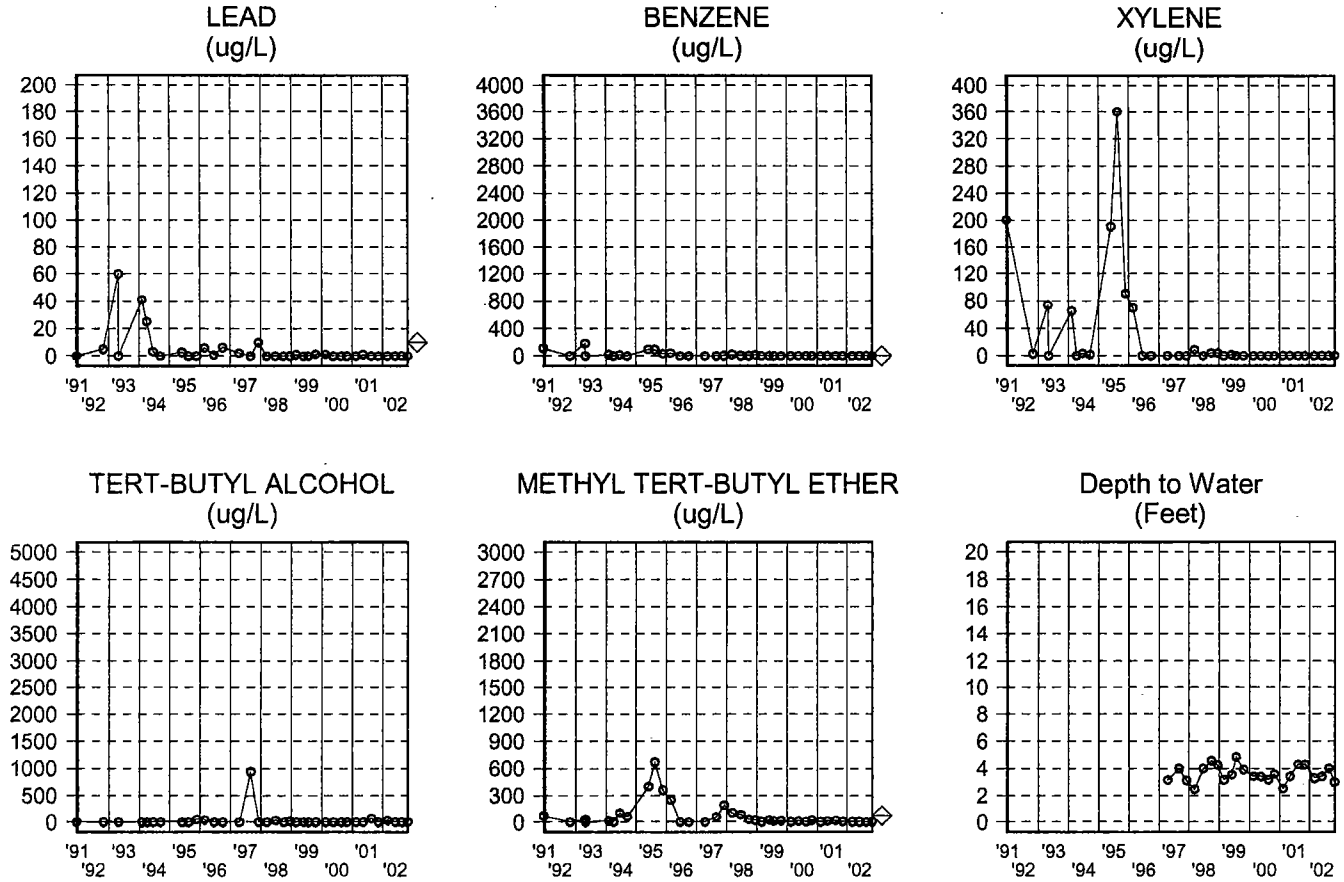
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 10/29/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

02-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
12/10/1991	EMSL	5	ND	ND	ND	ND	-				-
10/26/1992	ENV PRO	ND	ND	ND	ND	ND	-				-
04/21/1993	ENV PRO	ND	ND	ND	ND	ND	-				-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	-				BNA Only
02/03/1994	21st CEN	ND	14	60	ND	ND	-				-
03/31/1994	21st CEN	ND	ND	ND	ND	1.3	-				-
06/14/1994	21st CEN	ND	ND	ND	ND	ND	-				-
09/15/1994	21st CEN	ND	ND	ND	ND	ND	-				-
05/25/1995	EMSL	ND	ND	ND	ND	ND	-				-
08/15/1995	EMSL	2.6	ND	ND	ND	ND	-				-
11/21/1995	EMSL	ND	ND	ND	ND	ND	-				-
02/20/1996	EMSL	ND	ND	ND	ND	ND	-				-
06/13/1996	FMETL	1.8	ND	ND	-	-	-				-
09/27/1996	FMETL	ND	ND	ND	-	-	-				-
04/11/1997	FMETL	2.3	ND	ND	-	-	2.55				V,Pb
08/28/1997	FMETL	ND	ND	ND	-	-	3.20				V,Pb
12/02/1997	FMETL	9.0	ND	ND	-	-	2.45				V,S,P,M
03/04/1998	FMETL	ND	ND	ND	-	-	2.11				V,S,P,M
06/19/1998	FMETL	ND	ND	ND	-	-	2.33				V,Pb
09/24/1998	FMETL	ND	ND	ND	-	-	3.55				V,Pb
12/12/1998	FMETL	ND	ND	ND	-	-	3.11				V,Pb
02/24/1999	FMETL	ND	ND	ND	-	-	2.44				V,Pb
05/29/1999	FMETL	ND	ND	ND	ND	ND	2.76				V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	3.98				V,Pb
10/21/1999	FMETL	1.2	ND	ND	ND	ND	2.37				V,Pb
02/14/2000	FMETL	1.4	ND	ND	ND	ND	1.69				V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	2.65				V,Pb
05/15/2000D	FMETL	ND	ND	ND	ND	ND	2.65				V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	ND	2.49				V,Pb
08/22/2000D	FMETL	ND	ND	ND	ND	ND	2.49				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	2.91				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	1.99				V,Pb
02/09/2001D	FMETL	ND	ND	ND	ND	ND	1.99				V,Pb
05/08/2001	FMETL	ND	ND	ND	ND	ND	2.68				V, Pb
05/08/2001D	FMETL	1.26	ND	ND	ND	ND	2.68				V, Pb
08/15/2001	FMETL	2.2	ND	ND	ND	ND	3.50				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	ND	3.65				V, Pb
02/26/2002	FMETL	ND	ND	ND	ND	ND	2.71				V, Pb
05/28/2002	FMETL	ND	ND	ND	ND	ND	2.83				V,Pb

02-10-2003 X:\MtechData\2567\2567.WSF

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 10/29/2002

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
08/20/2002	FMETL	ND	ND	ND	ND	ND	3.96				V, Pb
10/29/2002	FMETL	ND	ND	ND	ND	ND	2.26				V, Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 10/29/2002

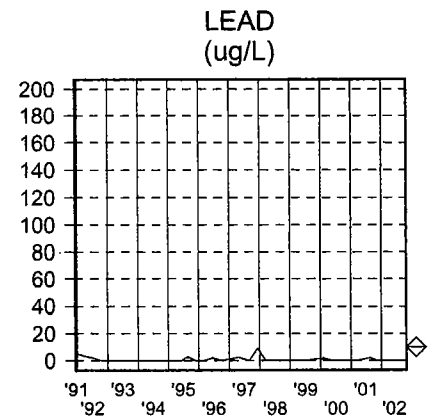
NOTES:

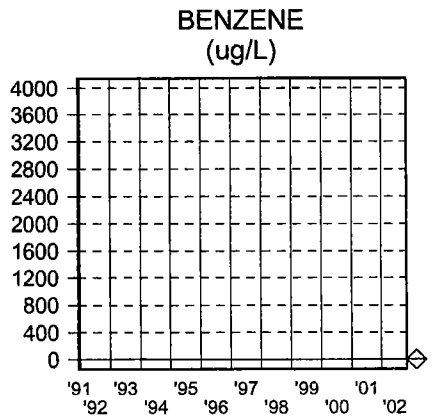
FORT MONMOUTH

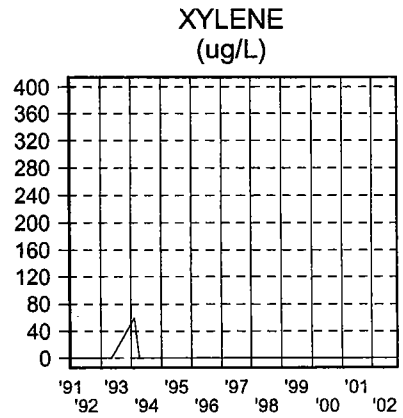
GW MONITORING
Bldg. 2567
Table / Graph A

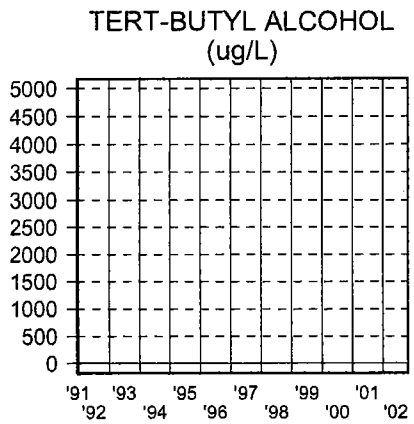
Source 4 of 7 (cont.)

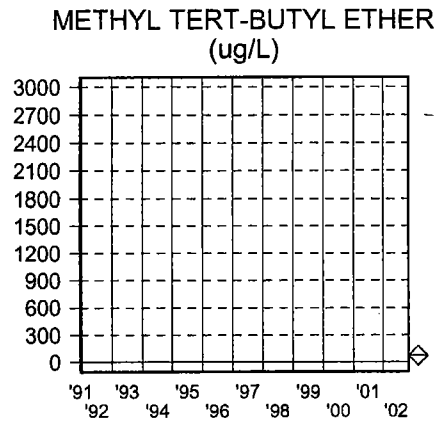
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

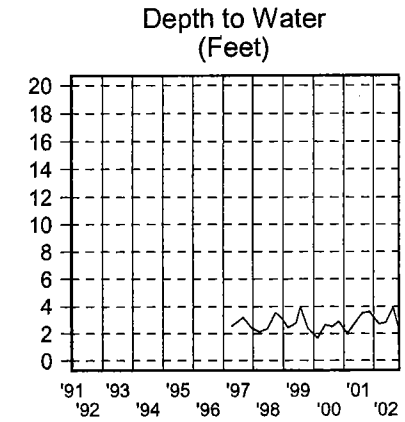












SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 10/29/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

02-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
05/25/1995	EMSL	4.0	ND	ND	ND	ND	-				-
08/15/1995	EMSL	ND	ND	ND	ND	ND	-				-
11/21/1995	EMSL	ND	ND	ND	ND	ND	-				-
02/20/1996	EMSL	ND	ND	ND	ND	ND	-				-
09/27/1996	FMETL	ND	-	-	-	-	-				-
04/11/1997	FMETL	2.7	-	-	-	-	7.20				V,Pb
08/28/1997	FMETL	ND	-	-	-	-	7.50				V,Pb
12/02/1997	FMETL	7.0	-	-	-	-	7.20				V,S,P,M
03/04/1998	FMETL	ND	-	-	-	-	7.30				V,S,P,M
06/01/1998	FMETL	ND	-	-	-	-	7.55				V,Pb
09/25/1998	FMETL	ND	-	-	-	-	7.59				V,Pb
12/16/1998	FMETL	ND	-	-	-	-	7.34				V,Pb
02/24/1999	FMETL	ND	-	-	-	-	8.16				V,Pb
06/08/1999	FMETL	ND	ND	ND	ND	ND	7.33				V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	ND	7.87				V,Pb
10/21/1999	FMETL	4.4	ND	ND	ND	ND	8.57				V,Pb
02/14/2000	FMETL	1.21	ND	ND	ND	ND	5.75				V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	ND	6.92				V,Pb
08/22/2000	FMETL	1.6	ND	ND	ND	ND	6.73				V,Pb
11/01/2000	FMETL	2.4	ND	ND	ND	ND	7.16				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	5.26				V,Pb
05/08/2001	FMETL	4.53	ND	ND	ND	ND	7.47				V, Pb
08/15/2001	FMETL	8.4	ND	ND	ND	ND	7.70				V, Pb
11/09/2001	FMETL	9.7	ND	ND	ND	ND	7.83				V, Pb
02/26/2002	FMETL	6.5	ND	ND	ND	ND	6.95				V, Pb
05/28/2002	FMETL	3.60	ND	ND	ND	ND	5.91				V,Pb
08/20/2002	FMETL	32.3	ND	ND	ND	ND	8.03				V, Pb
10/29/2002	FMETL	49.5	ND	ND	ND	ND	5.95				V, Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 10/29/2002

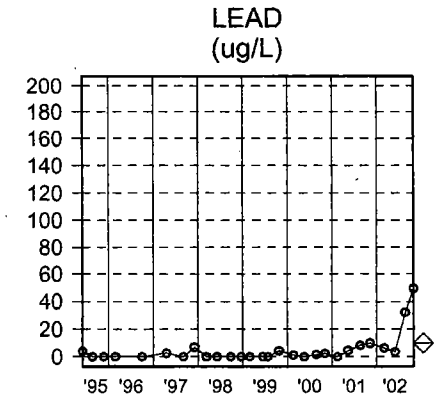
NOTES:

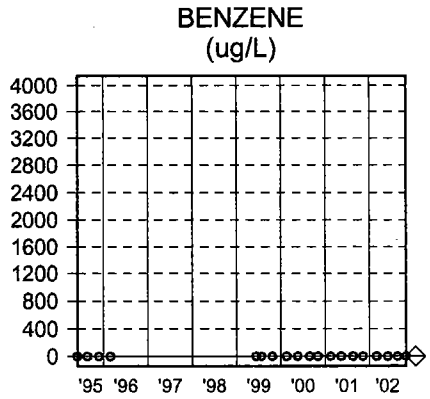
FORT MONMOUTH

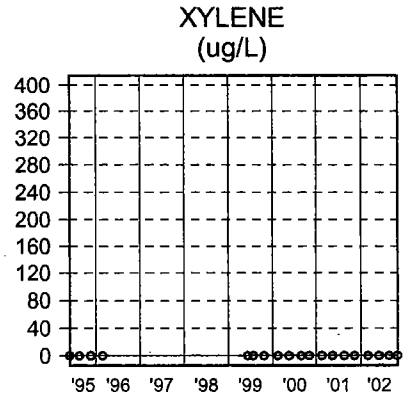
GW MONITORING
Bldg. 2567
Table / Graph A

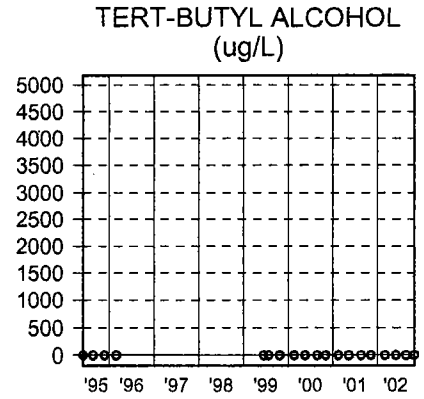
Source 5 of 7

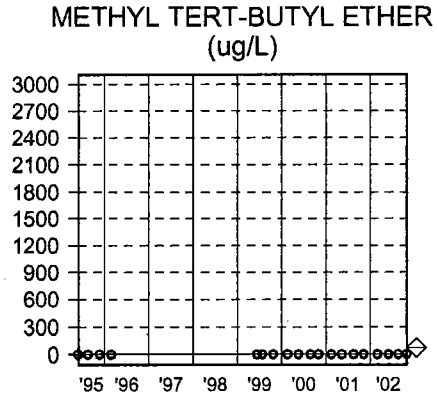
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

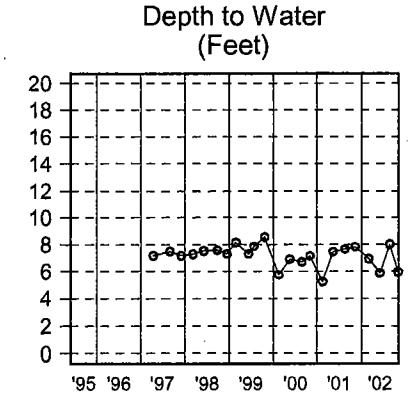












SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 10/29/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

02-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
08/22/2000	FMETL	ND	ND	ND	ND	ND	7.06				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	ND	7.26				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	6.44				V,Pb
05/08/2001	FMETL	1.48	ND	ND	ND	ND	7.42				V, Pb
08/15/2001	FMETL	ND	ND	ND	ND	ND	8.15				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	ND	8.09				V, Pb
02/26/2002	FMETL	ND	ND	ND	ND	ND	6.82				V, Pb
05/28/2002	FMETL	ND	ND	ND	ND	ND	7.29				V,Pb
08/20/2002	FMETL	1.32	ND	ND	ND	ND	8.78				V, Pb
10/29/2002	FMETL	ND	ND	ND	ND	ND	6.62				V, Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 10/29/2002

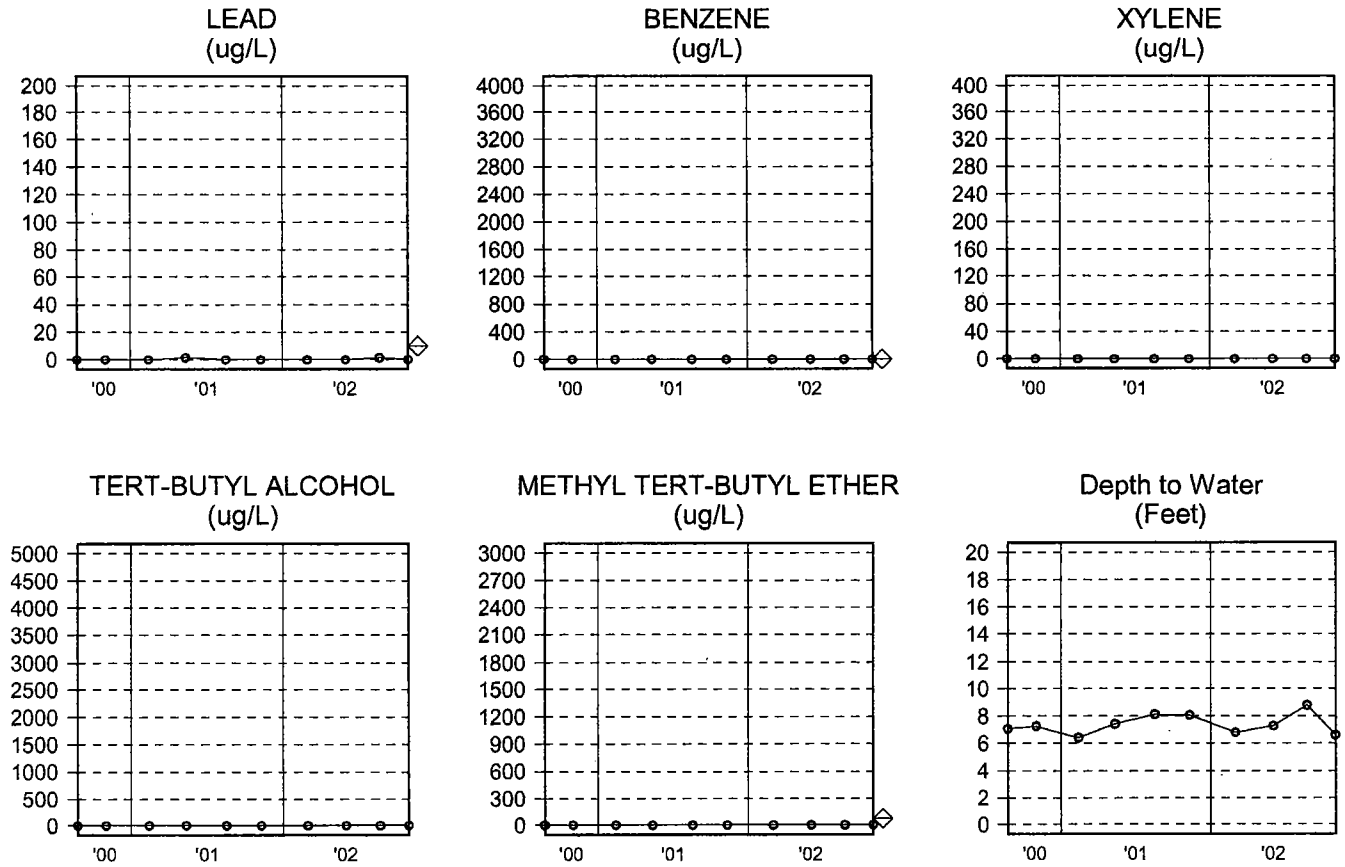
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 10/29/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

02-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
08/22/2000	FMETL	ND	ND	ND	ND	ND	6.65				V,Pb
11/02/2000	FMETL	ND	ND	ND	ND	ND	6.80				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	ND	6.23				V,Pb
05/08/2001	FMETL	ND	ND	ND	ND	ND	7.02				V, Pb
08/15/2001	FMETL	ND	ND	ND	ND	ND	7.75				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	ND	7.56				V, Pb
02/26/2002	FMETL	ND	ND	ND	ND	ND	6.71				V, Pb
05/28/2002	FMETL	ND	ND	ND	ND	ND	6.83				V,Pb
08/20/2002	FMETL	ND	ND	ND	ND	ND	8.28				V, Pb
10/29/2002	FMETL	ND	ND	ND	ND	ND	6.40				V, Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 10/29/2002

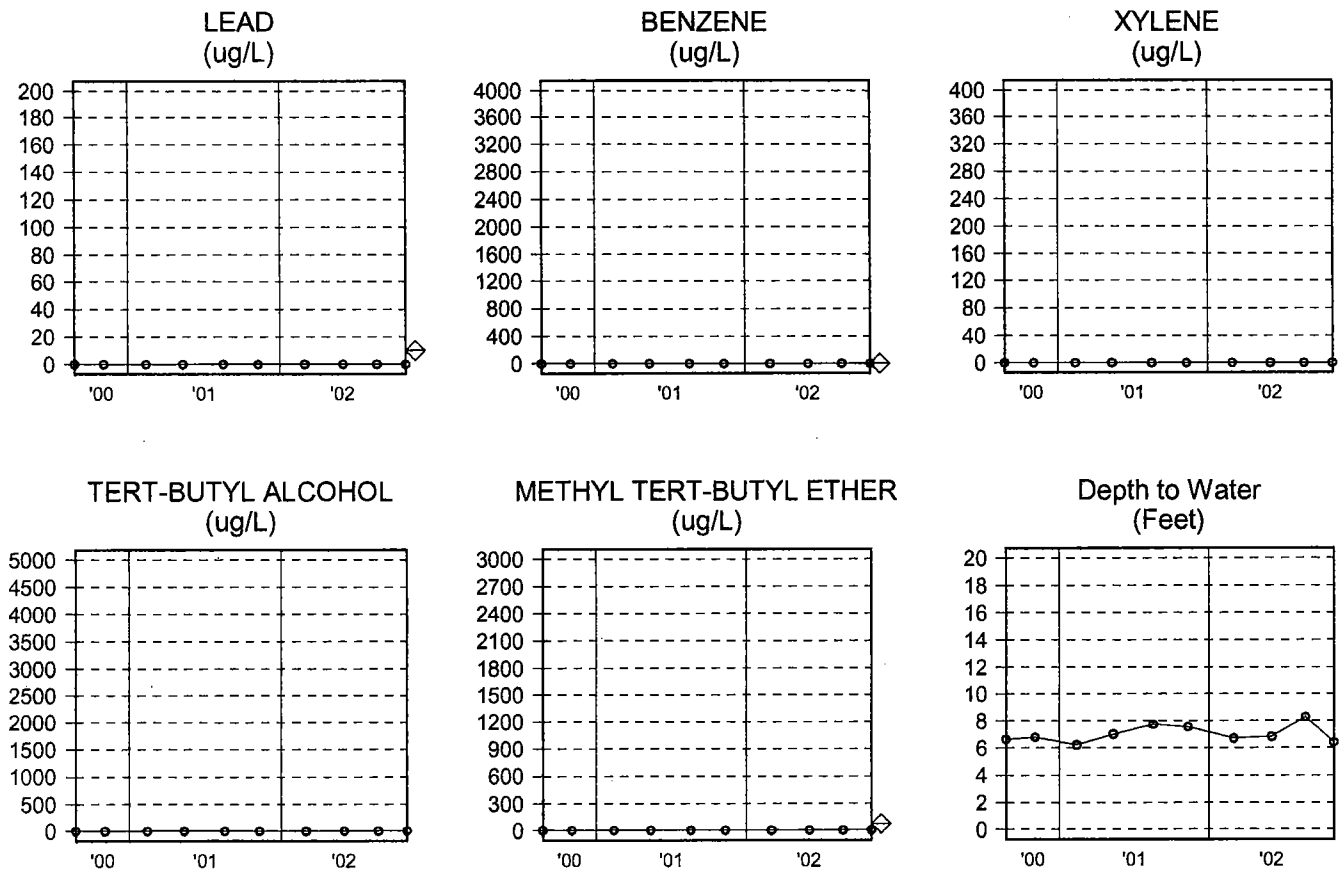
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 10/29/2002

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-4359 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567 #24

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3008304	2567MW01	29-26925	02/26/03
3008305	2567MW02	29-26926	02/26/03
3008306	2567MW03	29-26947	02/26/03
3008307	2567MW04	29-26948	02/26/03
3008308	2567MW05	29-31783	02/26/03
3008309	2567MW06	29-42585	02/26/03
30083q0	2567MW07	29-42586	02/26/03

NJDEP Laboratory Certification # 13461

4-21-03

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

SAMPLING

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: X26223
(X)DERA ( )OMA ( )Other:_____

Project No:
Location: 2567 wells
1st Qtr '03

Samplers Name / Company: Corey McCormack, TLS

Comments: HCl/HNO3/4°C

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	Volatiles	Pb						Hardhead	Remarks / Preservation Method
30083 01	Trip	2/26/03	0741	AQ	2	✓							—	
02	Field Blank		0930		3	✓	✓						—	
03	Dupe		—		3	✓	✓						—	
04	2567 mw01		1025		3	✓	✓						0.0	29-26925
05	2567 mw02		1208			✓	✓						0.0	29-26926
06	2567 mw03		1211			✓	✓						1.0	29-26947
07	2567 mw04		1217			✓	✓						0.0	29-26948
08	2567 mw05		1419			✓	✓						0.0	29-31783
09	2567 mw06		1022			✓	✓						0.0	29-42585
10	2567 mw07 *		1018			✓	✓						0.0	29-42586

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	2/26/03 1500	J. Wright			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (_)Reduced, (X)Standard, (_)Screen / non-certified, (_)EDD
Turnaround time: (X)Standard 3 wks, (_)Rush ____ Days, (_)ASAP Verbal ____ Hrs.

Remarks: Tide: N/A

print legibly

Coc12/30/02

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/03
WEATHER: Overcast and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.11 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.99 ft
(9.99) X .65 X 3 = 19.48
GALLONS OF H_2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:02
pH 5.71 su
DISSOLVED O_2 1.79 mg/L
TEMP 11.64 °C
SPECIFIC CONDUCTIVITY 530.9 ms/cm

PURGE END TIME: 10:24
pH 6.67 su
DISSOLVED O_2 1.11 mg/L
TEMP 11.50 °C
SPECIFIC CONDUCTIVITY 671.8 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.85 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 10:25
pH 6.66 su
DISSOLVED O_2 1.03 mg/L
TEMP 11.49 °C
SPECIFIC CONDUCTIVITY 670.5 ms/cm

SAMPLE END TIME: 10:27

COMMENTS: Low draw down.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/03
WEATHER: Overcast and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.71 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.49 ft
(9.49) X .65 X 3 = 18.50
GALLONS OF H_2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:45
pH 6.27 su
DISSOLVED O_2 3.71 mg/L
TEMP 11.94 °C
SPECIFIC CONDUCTIVITY 291.9 ms/cm

PURGE END TIME: 12:07
pH 6.41 su
DISSOLVED O_2 2.21 mg/L
TEMP 11.39 °C
SPECIFIC CONDUCTIVITY 321.4 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.63 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 12:08
pH 6.41 su
DISSOLVED O_2 2.17 mg/L
TEMP 11.41 °C
SPECIFIC CONDUCTIVITY 320.5 ms/cm

SAMPLE END TIME: 12:10

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/03
WEATHER: Overcast and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.39 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 10.11 ft
(10.11) X .65 X 3 = 19.71
GALLONS OF H2O TO BE PURGED: 20 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.02 ppm

PURGE START TIME: 10:43
pH 6.57 su
TEMP 11.43 °C
DISSOLVED O_2 5.21 mg/L
SPECIFIC CONDUCTIVITY 121.7 ms/cm

PURGE END TIME: 12:10
pH 6.63 su
TEMP 11.37 °C
DISSOLVED O_2 2.71 mg/L
SPECIFIC CONDUCTIVITY 125.9 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.59 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 20 gal

SAMPLE START TIME: 12:11
pH 6.62 su
TEMP 11.38 °C
DISSOLVED O_2 2.69 mg/L
SPECIFIC CONDUCTIVITY 126.0 ms/cm

SAMPLE END TIME: 12:14

COMMENTS: Low draw down.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/03
WEATHER: Overcast and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 1.84 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.82 ft
(9.82) X .65 X 3 = 19.14
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:48
pH 5.49 su
DISSOLVED O_2 4.51 mg/L
TEMP 11.76 °C
SPECIFIC CONDUCTIVITY 171.8 ms/cm

PURGE END TIME: 12:10
pH 5.32 su
DISSOLVED O_2 3.00 mg/L
TEMP 11.38 °C
SPECIFIC CONDUCTIVITY 400.0 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 2.49 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 12:17
pH 5.33 su
DISSOLVED O_2 2.99 mg/L
TEMP 11.40 °C
SPECIFIC CONDUCTIVITY 389.7 ms/cm

SAMPLE END TIME: 12:20

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/03
WEATHER: Overcast and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.37 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.38 ft
(9.38) X .65 X 3 = 18.29
GALLONS OF H_2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 13:00
pH 6.83 su
DISSOLVED O_2 3.58 mg/L
TEMP 11.70 °C
SPECIFIC CONDUCTIVITY 120.3 ms/cm

PURGE END TIME: 14:18
pH 6.67 su
DISSOLVED O_2 2.51 mg/L
TEMP 11.60 °C
SPECIFIC CONDUCTIVITY 127.7 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 9.17 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 14:19
pH 6.66 su
DISSOLVED O_2 2.50 mg/L
TEMP 11.61 °C
SPECIFIC CONDUCTIVITY 127.9 ms/cm

SAMPLE END TIME: 14:23

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/03
WEATHER: Overcast and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.24 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.50 ft
(9.50) X .65 X 3 = 18.52
GALLONS OF H_2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:56
pH 4.71 su
DISSOLVED O_2 3.71 mg/L
TEMP 11.70 °C
SPECIFIC CONDUCTIVITY 376.4 ms/cm

PURGE END TIME: 10:18
pH 4.39 su
DISSOLVED O_2 1.76 mg/L
TEMP 11.40 °C
SPECIFIC CONDUCTIVITY 261.7 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 7.55 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 10:22
pH 4.40 su
DISSOLVED O_2 1.71 mg/L
TEMP 11.40 °C
SPECIFIC CONDUCTIVITY 261.5 ms/cm

SAMPLE END TIME: 10:24

COMMENTS: Low pH.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/26/03
WEATHER: Overcast and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.07 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 10.43 ft
(10.43) X .65 X 3 = 20.33
GALLONS OF H2O TO BE PURGED: 20 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:50
pH 5.70 su TEMP 11.63 °C
DISSOLVED O_2 7.61 mg/L SPECIFIC CONDUCTIVITY 176.2 ms/cm

PURGE END TIME: 10:17
pH 5.37 su TEMP 11.41 °C
DISSOLVED O_2 1.39 mg/L SPECIFIC CONDUCTIVITY 279.2 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 8.22 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 20 gal

SAMPLE START TIME: 10:18
pH 5.38 su TEMP 11.42 °C
DISSOLVED O_2 1.38 mg/L SPECIFIC CONDUCTIVITY 280.1 ms/cm

SAMPLE END TIME: 10:20

COMMENTS: DUP. Here.

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	**:**	**Method Detection Limit**
J	**:**	**Compound identified below detection limit**
B	**:**	**Compound found in blank**
D	**:**	**Results are from a dilution of the sample**
U	**:**	**Compound searched for but not detected**
E	**:**	**Compound exceeds calibration limit**
PQL	**:**	**Practical Quantitation Limit**
NLE	**:**	**No limit established**
RT	**:**	**Retention time**

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB013092.D**	Sample Name	**MB 12Mar03**
Operator	**Skelton**	Field ID	**MB 12Mar03**
Date Acquired	**12 Mar 2003 2:10 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

MB 12Mar03

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 30083 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: MB 12Mar03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB013092.D

Level: (low/med) LOW Date Received: 2/26/2003

% Moisture: not dec. Date Analyzed: 3/12/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB013104.D**	Sample Name	**3008301**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**12 Mar 2003 10:24 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform	16.60	251162	2.01 ug/L	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 30083 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3008301

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB013104.D

Level: (low/med) LOW Date Received: 2/26/2003

% Moisture: not dec. Date Analyzed: 3/12/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 2

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000071-36-3	1-Butanol	19.88	4	JN
2. 000575-43-9	Naphthalene, 1,6-dimethyl-	34.47	8	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB013105.D**	Sample Name	**3008302**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**12 Mar 2003 11:04 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform	16.60	206365	1.64 ug/L	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 30083 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3008302

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB013105.D

Level: (low/med) LOW Date Received: 2/26/2003

% Moisture: not dec. Date Analyzed: 3/12/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000575-37-1	Naphthalene, 1,7-dimethyl-	34.47	4	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB013106.D**	Sample Name	**3008303**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**12 Mar 2003 11:45 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 30083 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3008303

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB013106.D

Level: (low/med) LOW Date Received: 2/26/2003

% Moisture: not dec. Date Analyzed: 3/12/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB013107.D**	Sample Name	**3008304**
Operator	**Skelton**	Field ID	**2567MW01**
Date Acquired	**13 Mar 2003 12:25 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol	11.77	3083759	934.72 ug/L	nle	8.52 ug/L	20.00 ug/L	E
1634044	Methyl-tert-Butyl ether	12.04	268077	2.05 ug/L	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone	9.33	151193	4.50 ug/L	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB013122.D**	Sample Name	**3008304**
Operator	**Skelton**	Field ID	**2567MW01**
Date Acquired	**13 Mar 2003 10:29 am**	Sample Multiplier	**10**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	18.50 ug/L	200.00 ug/L	
107131	Acrylonitrile			not detected	50	27.80 ug/L	200.00 ug/L	
75650	tert-Butyl alcohol	11.80	251523	828.60 ug/L	nle	85.20 ug/L	200.00 ug/L	D
1634044	Methyl-tert-Butyl ether			not detected	70	1.60 ug/L	20.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	2.50 ug/L	20.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	16.80 ug/L	20.00 ug/L	
74-87-3	Chloromethane			not detected	30	11.60 ug/L	20.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	10.60 ug/L	20.00 ug/L	
74-83-9	Bromomethane			not detected	10	11.00 ug/L	20.00 ug/L	
75-00-3	Chloroethane			not detected	nle	10.10 ug/L	20.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	5.00 ug/L	20.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	2.40 ug/L	20.00 ug/L	
67-64-1	Acetone			not detected	700	13.60 ug/L	20.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	4.60 ug/L	20.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	2.40 ug/L	20.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	1.60 ug/L	20.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	1.20 ug/L	20.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	7.80 ug/L	20.00 ug/L	
78-93-3	2-Butanone			not detected	300	6.20 ug/L	20.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	1.70 ug/L	20.00 ug/L	
67-66-3	Chloroform			not detected	6	3.00 ug/L	20.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	2.30 ug/L	20.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	4.70 ug/L	20.00 ug/L	
71-43-2	Benzene			not detected	1	2.30 ug/L	20.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.80 ug/L	20.00 ug/L	
79-01-6	Trichloroethene			not detected	1	2.30 ug/L	20.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	4.00 ug/L	20.00 ug/L	
124-48-1	Bromodichloromethane			not detected	1	5.50 ug/L	20.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	6.50 ug/L	20.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	6.90 ug/L	20.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	5.90 ug/L	20.00 ug/L	
108-88-3	Toluene			not detected	1000	3.70 ug/L	20.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	8.70 ug/L	20.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	4.80 ug/L	20.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	3.20 ug/L	20.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	7.10 ug/L	20.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	8.60 ug/L	20.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	3.90 ug/L	20.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	6.50 ug/L	20.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	11.40 ug/L	40.00 ug/L	
95-47-6	o-Xylene			not detected	nle	6.20 ug/L	20.00 ug/L	
100-42-5	Styrene			not detected	100	5.60 ug/L	20.00 ug/L	
75-25-2	Bromoform			not detected	4	7.00 ug/L	20.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	4.70 ug/L	20.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	5.50 ug/L	20.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	5.70 ug/L	20.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	6.40 ug/L	20.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW01

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 30083 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3008304

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB013107.D

Level: (low/med) LOW Date Received: 2/26/2003

% Moisture: not dec. _____ Date Analyzed: 3/13/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB013110.D**	Sample Name	**3008305**
Operator	**Skelton**	Field ID	**2567MW02**
Date Acquired	**13 Mar 2003 2:25 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone	9.33	136863	4.19 ug/L	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW02

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 30083 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3008305

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB013110.D

Level: (low/med) LOW Date Received: 2/26/2003

% Moisture: not dec. Date Analyzed: 3/13/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000496-11-7	Indane	32.87	5	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB013111.D**	Sample Name	**3008306**
Operator	**Skelton**	Field ID	**2567MW03**
Date Acquired	**13 Mar 2003 3:05 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	12.02	467239	3.64 ug/L	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone	9.32	98144	2.97 ug/L	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW03

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 30083 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3008306

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB013111.D

Level: (low/med) LOW Date Received: 2/26/2003

% Moisture: not dec. Date Analyzed: 3/13/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.36	19	JN
2. 000109-66-0	Pentane	7.24	7	JN
3. 000079-29-8	Butane, 2,3-dimethyl-	10.71	6	JN
4.	unknown	10.89	6	J
5.	unknown	11.11	7	J
6. 000096-14-0	Pentane, 3-methyl-	11.87	8	JN
7. 000096-37-7	Cyclopentane, methyl-	15.00	24	JN
8. 000110-82-7	Cyclohexane	17.02	9	JN
9. 000098-82-8	Benzene, (1-methylethyl)-	29.03	3	JN
10. 000496-11-7	Indane	32.87	6	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB013112.D**	Sample Name	**3008307**
Operator	**Skelton**	Field ID	**2567MW04**
Date Acquired	**13 Mar 2003 3:45 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

R.L. = Reporting Limit

C:\HPCHEM\Custrpt\Volatile\624fy03.crt

4/17/2003 1:06 PM

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW04

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 30083 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3008307

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB013112.D

Level: (low/med) LOW Date Received: 2/26/2003

% Moisture: not dec. _____ Date Analyzed: 3/13/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB013113.D**	Sample Name	**3008308**
Operator	**Skelton**	Field ID	**2567MW05**
Date Acquired	**13 Mar 2003 4:25 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW05

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 30083 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3008308

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB013113.D

Level: (low/med) LOW Date Received: 2/26/2003

% Moisture: not dec. _____ Date Analyzed: 3/13/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB013114.D**	Sample Name	**3008309**
Operator	**Skelton**	Field ID	**2567MW06**
Date Acquired	**13 Mar 2003 5:06 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW06

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 30083 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3008309

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB013114.D

Level: (low/med) LOW Date Received: 2/26/2003

% Moisture: not dec. Date Analyzed: 3/13/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB013115.D**	Sample Name	**3008310**
Operator	**Skelton**	Field ID	**2567MW07**
Date Acquired	**13 Mar 2003 5:46 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
124-48-1	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

2567MW07

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 30083 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3008310

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB013115.D

Level: (low/med) LOW Date Received: 2/26/2003

% Moisture: not dec. _____ Date Analyzed: 3/13/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 30083
Sample Received: NA
Analysis Start: 03/04/03
Analysis Completed: 03/05/03

Site: Ft. Monmouth
2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3120B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
Method Blank	NA	2.46	10	1.0

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3008302-10
Sample Received: 02/26/03
Analysis Start: 03/04/03
Analysis Completed: 03/05/03

Site: Ft. Monmouth
2567

Matrix: Aq

Method of Analysis: Std Methods 18th, Method 3120B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
3008302	Field Blank	2.91	10	1.0
3008303	Dupe	1.57	10	1.0
3008304	2567MW01	1.40	10	1.0
3008305	2567MW02	ND	10	1.0
3008306	2567MW03	ND	10	1.0
3008307	2567MW04	ND	10	1.0
3008308	2567MW05	3.57	10	1.0
3008309	2567MW06	ND	10	1.0
3008310	2567MW07	ND	10	1.0

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	BENZENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water					NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	Feet					-
NJDEP Criteria:	-	10	1	NLE	70	-					-
12/10/1991	ENV PRO	4	2400	4400	2200	-					-
10/26/1992	ENV PRO	ND	2800	5400	1200	-					-
10/26/1992D	ENV PRO	ND	3200	7000	1500	-					-
04/21/1993	21st CEN	70	520	470	890	-					-
04/28/1993	21st CEN	ND	ND	ND	ND	-					BNA Only
02/03/1994	21st CEN	ND	21	28	650	-					-
03/31/1994	21st CEN	ND	ND	22	10	-					-
06/14/1994	21st CEN	ND	ND	120	88	-					-
09/15/1994	21st CEN	ND	ND	600	56	-					-
05/25/1995	EMSL	ND	ND	930	110	-					-
08/15/1995	EMSL	3.3	ND	930	29	-					-
11/21/1995	EMSL	ND	ND	860	80	-					-
02/20/1996	EMSL	4	ND	780	100	-					-
06/13/1996	FMETL	1.2	ND	ND	ND	-					-
09/27/1996	FMETL	ND	ND	ND	ND	-					-
04/11/1997	FMETL	2.5	ND	ND	ND	3.80					V,Pb
08/28/1997	FMETL	1.4	39.4	ND	240	4.80					V,Pb
12/02/1997	FMETL	7.0	ND	357	20.3	3.90					V,S,P,M
03/04/1998	FMETL	ND	ND	560	37	3.51					V,S,P,M
06/01/1998	FMETL	0.5	ND	95.63	24.23	4.06					V,Pb
09/24/1998	FMETL	ND	ND	283	10.02	5.21					V,Pb
12/09/1998	FMETL	ND	ND	143.26	3.43	4.90					V,Pb
02/24/1999	FMETL	ND	ND	675	26.15	3.75					V,Pb
05/29/1999	FMETL	ND	ND	605.1	9.16	4.20					V,Pb
07/21/1999	FMETL	ND	ND	155.56	3.33	5.48					V,Pb
10/21/1999	FMETL	1.3	ND	497.3	4.8	4.03					V,Pb
02/14/2000	FMETL	1.31	ND	992	8.2	3.31					V,Pb
05/15/2000	FMETL	ND	ND	458.88	5.24	4.04					V,Pb
08/22/2000	FMETL	ND	ND	218.42	1.20	3.87					V,Pb
11/01/2000	FMETL	ND	ND	ND	15.04	4.24					V,Pb
11/01/2000D	FMETL	ND	ND	ND	15.33	4.24					V,Pb
02/09/2001	FMETL	ND	ND	1488.05	4.83	3.30					V,Pb
05/08/2001	FMETL	0.93	ND	764.25	2.10	4.15					V, Pb
08/15/2001	FMETL	ND	ND	248.74	ND	4.95					V, Pb
08/15/2001D	FMETL	ND	ND	457.64	1.54	4.95					V, Pb
11/09/2001	FMETL	ND	ND	ND	1.09	5.11					V, Pb
02/26/2002	FMETL	ND	ND	859.38	1.61	3.95					V, Pb
05/28/2002	FMETL	ND	ND	331.75	ND	4.09					V,Pb
08/20/2002	FMETL	ND	ND	441.16	ND	5.45					V, Pb

04-18-2003 X:\MtechData\2567\2567.WSF

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 02/26/2003

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	BENZENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water					NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	Feet					-
NJDEP Criteria:	-	10	1	NLE	70	-					-
10/29/2002	FMETL	1.22	ND	259.69	ND	3.62					V, Pb
02/26/2003	FMETL	1.40	ND	828.6	2.05	3.11					V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 02/26/2003

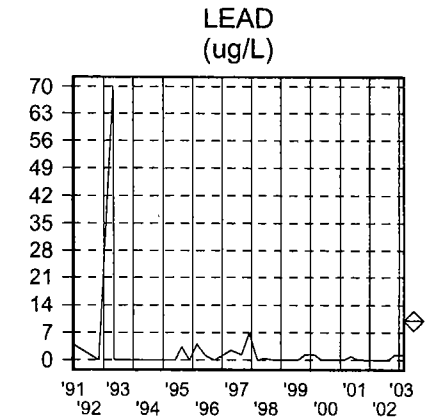
NOTES:

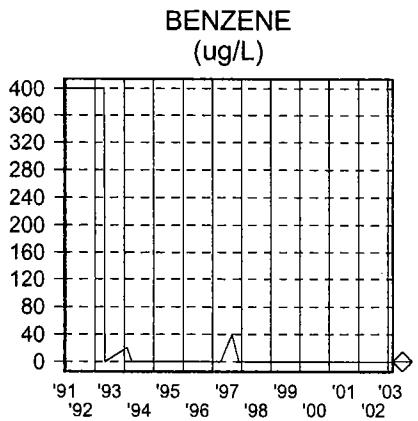
FORT MONMOUTH

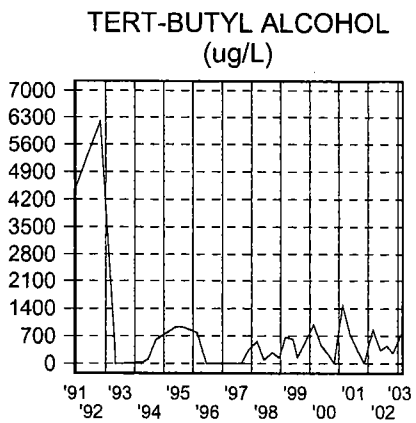
GW MONITORING
Bldg. 2567
Table / Graph A

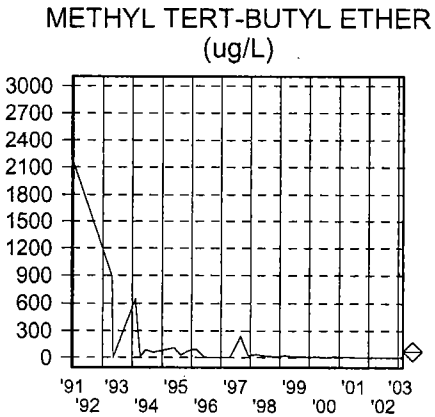
Source 1 of 7 (cont.)

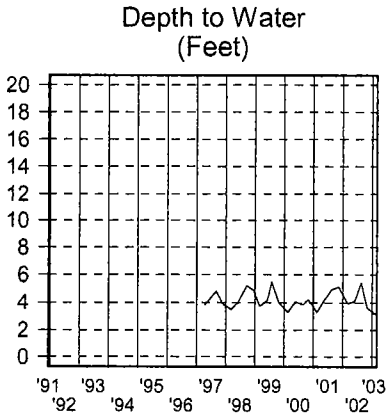
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV











SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 02/26/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

04-18-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
12/10/1991	ENV PRO	ND	-								-
10/26/1992	ENV PRO	11	-								-
04/21/1993	ENV PRO	ND	-								-
04/28/1993	21st CEN	ND	-								BNA Only
02/03/1994	21st CEN	260	-								-
03/31/1994	21st CEN	ND	-								-
06/14/1994	21st CEN	ND	-								-
09/15/1994	21st CEN	ND	-								-
05/25/1995	EMSL	ND	-								-
08/15/1995	EMSL	5.6	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
06/13/1996	FMETL	ND	-								-
09/27/1996	FMETL	1.2	-								-
04/11/1997	FMETL	10.7	3.40								V,Pb
08/28/1997	FMETL	ND	4.30								V,Pb
12/02/1997	FMETL	20	3.45								V,S,P,M
03/04/1998	FMETL	8.0	2.92								V,S,P,M
06/01/1998	FMETL	1.4	3.59								V,Pb
09/24/1998	FMETL	ND	4.73								V,Pb
12/09/1998	FMETL	ND	3.42								V,Pb
02/24/1999	FMETL	ND	3.38								V,Pb
05/29/1999	FMETL	ND	3.83								V,Pb
07/21/1999	FMETL	ND	5.03								V,Pb
10/21/1999	FMETL	1.2	3.65								V,Pb
02/14/2000	FMETL	1.49	3.00								V,Pb
05/15/2000	FMETL	ND	3.77								V,Pb
08/22/2000	FMETL	ND	3.51								V,Pb
11/01/2000	FMETL	ND	4.15								V,Pb
02/09/2001	FMETL	ND	2.75								V,Pb
05/08/2001	FMETL	1.02	3.95								V, Pb
08/15/2001	FMETL	ND	4.65								V, Pb
11/09/2001	FMETL	ND	4.81								V, Pb
11/09/2001D	FMETL	ND	4.81								V, Pb
02/26/2002	FMETL	ND	3.86								V, Pb
05/28/2002	FMETL	ND	3.83								V,Pb
08/20/2002	FMETL	ND	5.13								V, Pb
10/29/2002	FMETL	2.47	3.32								V, Pb
02/26/2003	FMETL	ND	2.71								V, Pb

04-18-2003 X:\MtechData\2567\2567.WSF

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 02/26/2003

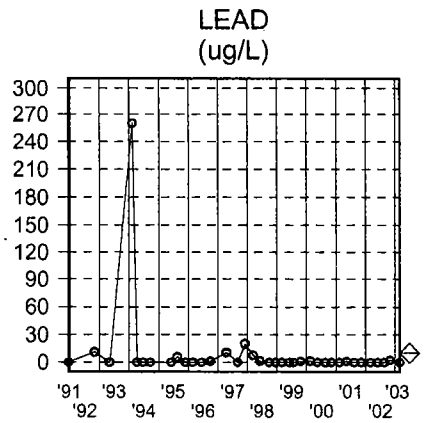
NOTES:

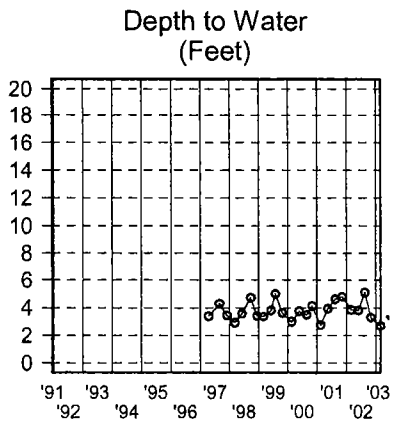
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 02/26/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

04-18-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water					NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	Feet					-
NJDEP Criteria:	-	10	NLE	NLE	70	-					-
12/10/1991	ENV PRO	ND	200	ND	69	-					-
10/26/1992	ENV PRO	5	3	ND	ND	-					-
04/21/1993	ENV PRO	60	74.2	ND	27	-					-
04/28/1993	21st CEN	ND	ND	ND	ND	-					BNA Only
02/03/1994	21st CEN	41	65	ND	9.1	-					-
03/31/1994	21st CEN	25	ND	ND	ND	-					-
06/14/1994	21st CEN	3	3.4	ND	100	-					-
09/15/1994	21st CEN	ND	1.4	ND	61	-					-
05/25/1995	EMSL	2.7	190	ND	400	-					-
08/15/1995	EMSL	ND	360	ND	670	-					-
11/21/1995	EMSL	ND	91	46	360	-					-
02/20/1996	EMSL	6	70	43	250	-					-
06/13/1996	FMETL	0.7	ND	ND	ND	-					-
09/27/1996	FMETL	6.2	ND	ND	ND	-					-
04/11/1997	FMETL	1.8	ND	ND	ND	3.15					V,Pb
08/28/1997	FMETL	ND	ND	940	62	4.00					V,Pb
12/02/1997	FMETL	10	ND	ND	188	3.10					V,S,P,M
03/04/1998	FMETL	ND	8.6	ND	102	2.48					V,S,P,M
06/19/1998	FMETL	ND	ND	27.52	81.82	3.99					V,Pb
09/25/1998	FMETL	ND	3.62	ND	27.27	4.56					V,Pb
12/16/1998	FMETL	ND	3.67	19.38	20.54	4.25					V,Pb
02/24/1999	FMETL	1.0	ND	ND	3.3	3.16					V,Pb
05/29/1999	FMETL	ND	1.29	ND	26.34	3.55					V,Pb
07/21/1999	FMETL	ND	ND	ND	8.98	4.85					V,Pb
10/21/1999	FMETL	1.3	ND	ND	13.08	3.93					V,Pb
02/14/2000	FMETL	1.22	ND	ND	3.78	3.42					V,Pb
05/15/2000	FMETL	ND	ND	ND	9.35	3.40					V,Pb
08/22/2000	FMETL	ND	ND	ND	5.36	3.17					V,Pb
11/01/2000	FMETL	ND	ND	ND	20.24	3.56					V,Pb
02/09/2001	FMETL	ND	ND	ND	1.96	2.50					V,Pb
05/08/2001	FMETL	0.96	ND	ND	11.95	3.40					V, Pb
08/15/2001	FMETL	ND	ND	67.42	17.8	4.30					V, Pb
11/09/2001	FMETL	ND	ND	ND	5.51	4.30					V, Pb
02/26/2002	FMETL	ND	ND	31.59	4.14	3.29					V, Pb
05/28/2002	FMETL	ND	ND	ND	3.13	3.40					V,Pb
08/20/2002	FMETL	ND	ND	ND	ND	4.03					V, Pb
10/29/2002	FMETL	ND	ND	ND	2.37	2.98					V, Pb
02/26/2003	FMETL	ND	ND	ND	3.64	2.39					V, Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 02/26/2003

NOTES:

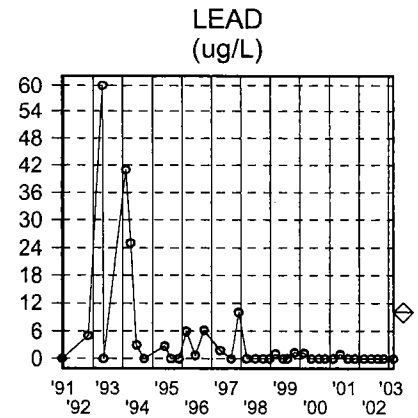
FORT MONMOUTH

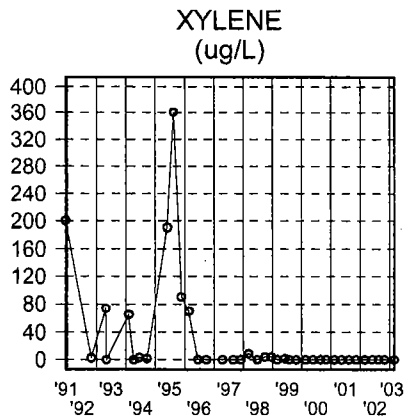
GW MONITORING
Bldg. 2567
Table / Graph A

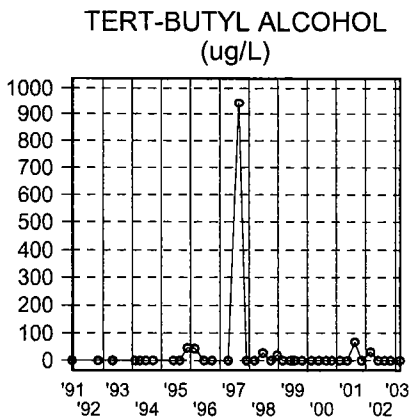
Source 3 of 7

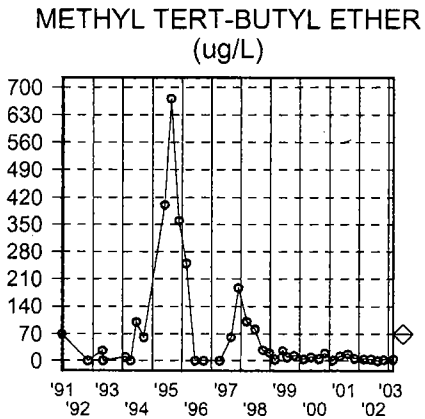
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

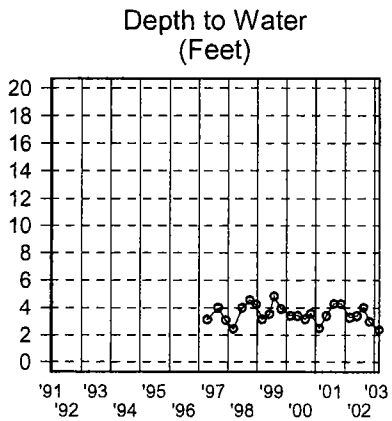
04-18-2003 X:\MtechData\2567\2567.WSF











SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 02/26/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

04-18-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
.12/10/1991	EMSL	5	-								-
10/26/1992	ENV PRO	ND	-								-
04/21/1993	ENV PRO	ND	-								-
04/28/1993	21st CEN	ND	-								BNA Only
02/03/1994	21st CEN	ND	-								-
03/31/1994	21st CEN	ND	-								-
06/14/1994	21st CEN	ND	-								-
09/15/1994	21st CEN	ND	-								-
05/25/1995	EMSL	ND	-								-
08/15/1995	EMSL	2.6	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
06/13/1996	FMETL	1.8	-								-
09/27/1996	FMETL	ND	-								-
04/11/1997	FMETL	2.3	2.55								V,Pb
08/28/1997	FMETL	ND	3.20								V,Pb
12/02/1997	FMETL	9.0	2.45								V,S,P,M
03/04/1998	FMETL	ND	2.11								V,S,P,M
06/19/1998	FMETL	ND	2.33								V,Pb
09/24/1998	FMETL	ND	3.55								V,Pb
12/12/1998	FMETL	ND	3.11								V,Pb
02/24/1999	FMETL	ND	2.44								V,Pb
05/29/1999	FMETL	ND	2.76								V,Pb
07/21/1999	FMETL	ND	3.98								V,Pb
10/21/1999	FMETL	1.2	2.37								V,Pb
02/14/2000	FMETL	1.4	1.69								V,Pb
05/15/2000	FMETL	ND	2.65								V,Pb
05/15/2000D	FMETL	ND	2.65								V,Pb
08/22/2000	FMETL	ND	2.49								V,Pb
08/22/2000D	FMETL	ND	2.49								V,Pb
11/01/2000	FMETL	ND	2.91								V,Pb
02/09/2001	FMETL	ND	1.99								V,Pb
02/09/2001D	FMETL	ND	1.99								V,Pb
05/08/2001	FMETL	ND	2.68								V, Pb
05/08/2001D	FMETL	1.26	2.68								V, Pb
08/15/2001	FMETL	2.2	3.50								V, Pb
11/09/2001	FMETL	ND	3.65								V, Pb
02/26/2002	FMETL	ND	2.71								V, Pb
05/28/2002	FMETL	ND	2.83								V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 02/26/2003

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

04-18-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/20/2002	FMETL	ND	3.96								V, Pb
10/29/2002	FMETL	ND	2.26								V, Pb
02/26/2003	FMETL	ND	1.84								V, Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 02/26/2003

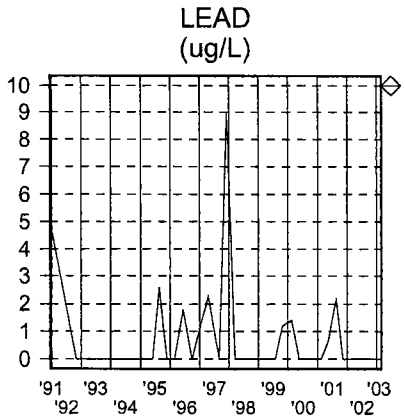
NOTES:

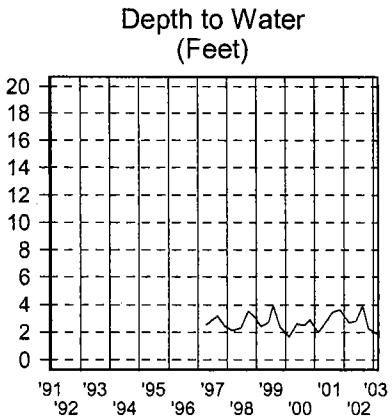
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 02/26/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

04-18-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
05/25/1995	EMSL	4.0	-								-
08/15/1995	EMSL	ND	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
09/27/1996	FMETL	ND	-								-
04/11/1997	FMETL	2.7	7.20								V,Pb
08/28/1997	FMETL	ND	7.50								V,Pb
12/02/1997	FMETL	7.0	7.20								V,S,P,M
03/04/1998	FMETL	ND	7.30								V,S,P,M
06/01/1998	FMETL	ND	7.55								V,Pb
09/25/1998	FMETL	ND	7.59								V,Pb
12/16/1998	FMETL	ND	7.34								V,Pb
02/24/1999	FMETL	ND	8.16								V,Pb
06/08/1999	FMETL	ND	7.33								V,Pb
07/21/1999	FMETL	ND	7.87								V,Pb
10/21/1999	FMETL	4.4	8.57								V,Pb
02/14/2000	FMETL	1.21	5.75								V,Pb
05/15/2000	FMETL	ND	6.92								V,Pb
08/22/2000	FMETL	1.6	6.73								V,Pb
11/01/2000	FMETL	2.4	7.16								V,Pb
02/09/2001	FMETL	ND	5.26								V,Pb
05/08/2001	FMETL	4.53	7.47								V, Pb
08/15/2001	FMETL	8.4	7.70								V, Pb
11/09/2001	FMETL	9.7	7.83								V, Pb
02/26/2002	FMETL	6.5	6.95								V, Pb
05/28/2002	FMETL	3.60	5.91								V,Pb
08/20/2002	FMETL	32.3	8.03								V, Pb
10/29/2002	FMETL	49.5	5.95								V, Pb
02/26/2003	FMETL	3.57	5.37								V, Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 02/26/2003

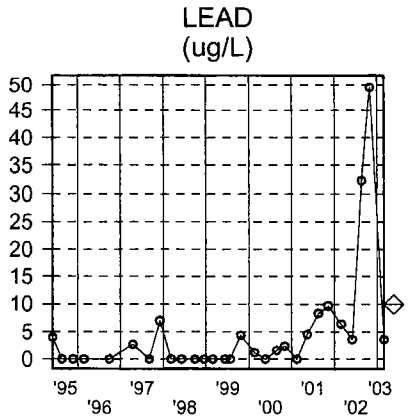
NOTES:

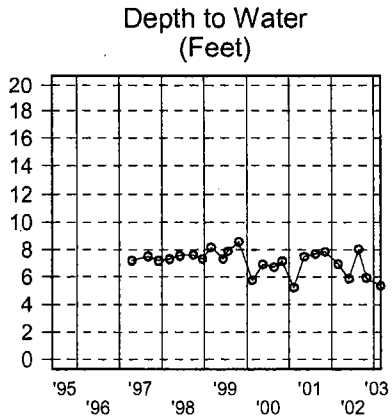
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 02/26/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

04-18-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/22/2000	FMETL	ND	7.06								V,Pb
11/01/2000	FMETL	ND	7.26								V,Pb
02/09/2001	FMETL	ND	6.44								V,Pb
05/08/2001	FMETL	1.48	7.42								V, Pb
08/15/2001	FMETL	ND	8.15								V, Pb
11/09/2001	FMETL	ND	8.09								V, Pb
02/26/2002	FMETL	ND	6.82								V, Pb
05/28/2002	FMETL	ND	7.29								V,Pb
08/20/2002	FMETL	1.32	8.78								V, Pb
10/29/2002	FMETL	ND	6.62								V, Pb
02/26/2003	FMETL	ND	6.24								V, Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 02/26/2003

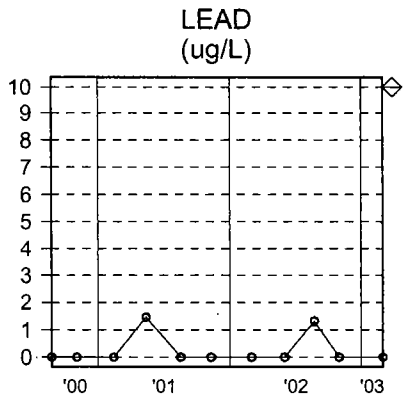
NOTES:

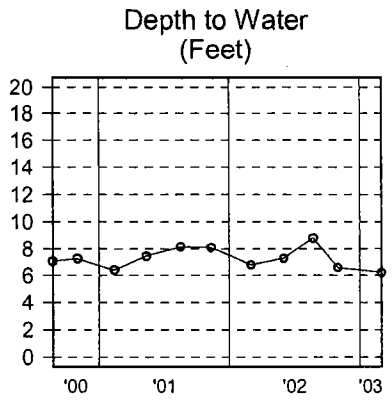
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 02/26/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

04-18-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/22/2000	FMETL	ND	6.65								V,Pb
11/02/2000	FMETL	ND	6.80								V,Pb
02/09/2001	FMETL	ND	6.23								V,Pb
05/08/2001	FMETL	ND	7.02								V, Pb
08/15/2001	FMETL	ND	7.75								V, Pb
11/09/2001	FMETL	ND	7.56								V, Pb
02/26/2002	FMETL	ND	6.71								V, Pb
05/28/2002	FMETL	ND	6.83								V,Pb
08/20/2002	FMETL	ND	8.28								V, Pb
10/29/2002	FMETL	ND	6.40								V, Pb
02/26/2003	FMETL	ND	6.07								V, Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 02/26/2003

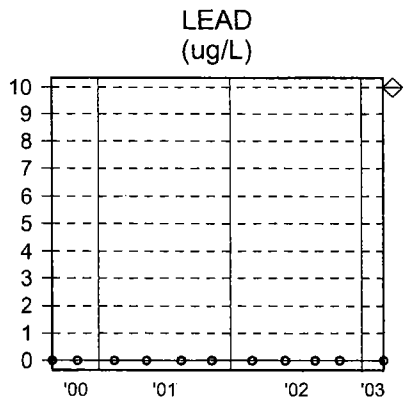
NOTES:

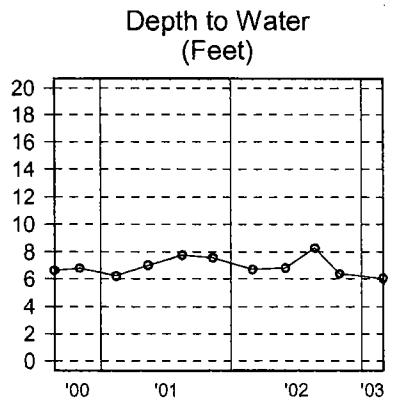
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 02/26/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

04-18-2003 X:\MtechData\2567\2567.WSF

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-4359 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567 #25

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3028304	2567MW01	29-26925	06/11/03
3028305	2567MW02	29-26926	06/11/03
3028306	2567MW03	29-26947	06/11/03
3028307	2567MW04	29-26948	06/11/03
3028308	2567MW05	29-31783	06/11/03
3028309	2567MW06	29-42585	06/11/03
3028310	2567MW07	29-42586	06/11/03

NJDEP Laboratory Certification # 13461

7-18-03

Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

SAMPLING

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer:
Phone #:
( )DERA ( )OMA ( )Other:_____

Project No:
Location: 2567 wells
2nd Qtr '03

Samplers Name / Company: Corey McCormack, TUS

Comments: HCL/HNO3/4°C

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	VOTIS	Pb						Hrs Read	Remarks / Preservation Method
30283 01	Trip	6/11/03	0800	AQ	2	✓							—	
02	Field Blank		1000		3	✓	✓						—	
03	Dupe		—		3	✓	✓						—	
04	2567 mw01		1135		3	✓	✓						1.0	29-26925
05	2567 mw02		1129			✓	✓						0.0	29-26926
06	2567 mw03		1139			✓	✓						0.0	29-26927
07	2567 mw04 *		1143			✓	✓						0.0	29-26948
08	2567 mw05		1320			✓	✓						0.0	29-31783
09	2567 mw06		1124			✓	✓						0.0	29-42585
10	2567 mw07		1149			✓	✓						0.0	29-42586

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	6/11/03 1415	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks: Tide: N/A

print legibly

COC.XLS5/14/2003

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 06/11/03
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.35 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.75 ft
(9.75) X .65 X 3 = 19.01
GALLONS OF H_2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:12
pH 5.87 su
DISSOLVED O_2 2.73 mg/L
TEMP 12.49 °C
SPECIFIC CONDUCTIVITY 471.9 ms/cm

PURGE END TIME: 11:34
pH 5.80 su
DISSOLVED O_2 1.83 mg/L
TEMP 12.53 °C
SPECIFIC CONDUCTIVITY 483.2 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.70 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 11:35
pH 5.80 su
DISSOLVED O_2 1.84 mg/L
TEMP 12.54 °C
SPECIFIC CONDUCTIVITY 484.7 ms/cm

SAMPLE END TIME: 11:38

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 06/11/03
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.00 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.20 ft
(9.20) X .65 X 3 = 17.99
GALLONS OF H_2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:10
pH 6.34 su
DISSOLVED O_2 3.90 mg/L
TEMP 12.97 °C
SPECIFIC CONDUCTIVITY 280.1 ms/cm

PURGE END TIME: 11:28
pH 6.45 su
DISSOLVED O_2 2.10 mg/L
TEMP 12.89 °C
SPECIFIC CONDUCTIVITY 283.7 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.86 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 11:29
pH 6.44 su
DISSOLVED O_2 2.11 mg/L
TEMP 12.90 °C
SPECIFIC CONDUCTIVITY 283.8 ms/cm

SAMPLE END TIME: 11:31

COMMENTS: Low draw down. Slight orange tinge.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 06/11/03
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.55 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.95 ft
(9.95) X .65 X 3 = 19.40
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.02 ppm

PURGE START TIME: 10:15
pH 6.66 su
DISSOLVED O_2 4.87 mg/L
TEMP 12.84 °C
SPECIFIC CONDUCTIVITY 111.7 ms/cm

PURGE END TIME: 11:37
pH 6.59 su
DISSOLVED O_2 2.53 mg/L
TEMP 12.76 °C
SPECIFIC CONDUCTIVITY 127.6 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.45 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 11:39
pH 6.60 su
DISSOLVED O_2 2.52 mg/L
TEMP 12.76 °C
SPECIFIC CONDUCTIVITY 127.6 ms/cm

SAMPLE END TIME: 11:41

COMMENTS: Slightly cloudy

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 06/11/03
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.15 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.51 ft
(9.51) X .65 X 3 = 18.54
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:20
pH 5.60 su
DISSOLVED O_2 4.21 mg/L
TEMP 12.60 °C
SPECIFIC CONDUCTIVITY 131.7 ms/cm

PURGE END TIME: 11:42
pH 5.53 su
DISSOLVED O_2 2.31 mg/L
TEMP 12.54 °C
SPECIFIC CONDUCTIVITY 149.8 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.84 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 11:43
pH 5.52 su
DISSOLVED O_2 2.32 mg/L
TEMP 12.53 °C
SPECIFIC CONDUCTIVITY 150.2 ms/cm

SAMPLE END TIME: 11:46

COMMENTS: DUP. Here. Cloudy and yellow.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 06/11/03
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 5.78 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.97 ft
(8.97) X .65 X 3 = 17.49
GALLONS OF H_2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 12:05
pH 6.91 su
DISSOLVED O_2 3.71 mg/L
TEMP 12.73 °C
SPECIFIC CONDUCTIVITY 110.3 ms/cm

PURGE END TIME: 13:19
pH 6.73 su
DISSOLVED O_2 2.30 mg/L
TEMP 12.68 °C
SPECIFIC CONDUCTIVITY 125.6 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 6.67 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 13:20
pH 6.74 su
DISSOLVED O_2 2.30 mg/L
TEMP 12.69 °C
SPECIFIC CONDUCTIVITY 126.1 ms/cm

SAMPLE END TIME: 13:23

COMMENTS: Cloudy orange while bailing.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 06/11/03
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.50 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.24 ft
(9.24) X .65 X 3 = 18.01
GALLONS OF H_2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:05
pH 4.92 su
DISSOLVED O_2 3.99 mg/L
TEMP 12.91 °C
SPECIFIC CONDUCTIVITY 271.4 ms/cm

PURGE END TIME: 11:23
pH 4.79 su
DISSOLVED O_2 2.03 mg/L
TEMP 12.88 °C
SPECIFIC CONDUCTIVITY 293.2 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 7.15 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 11:24
pH 4.80 su
DISSOLVED O_2 2.01 mg/L
TEMP 12.87 °C
SPECIFIC CONDUCTIVITY 294.1 ms/cm

SAMPLE END TIME: 11:27

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 06/11/03
WEATHER: Overcast and warm.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.26 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 10.24 ft
(10.24) X .65 X 3 = 19.96
GALLONS OF H2O TO BE PURGED: 20 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:21
pH 5.77 su TEMP 12.72 °C
DISSOLVED O_2 6.10 mg/L SPECIFIC CONDUCTIVITY 191.7 ms/cm

PURGE END TIME: 11:148
pH 5.48 su TEMP 12.63 °C
DISSOLVED O_2 2.30 mg/L SPECIFIC CONDUCTIVITY 253.2 ms/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 6.70 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 20 gal

SAMPLE START TIME: 11:49
pH 5.49 su TEMP 12.62 °C
DISSOLVED O_2 2.30 mg/L SPECIFIC CONDUCTIVITY 254.1 ms/cm

SAMPLE END TIME: 11:51

COMMENTS: Low draw down. Slightly cloudy yellow.

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	:	**Method Detection Limit**
J	:	**Compound identified below detection limit**
B	:	**Compound found in blank**
D	:	**Results are from a dilution of the sample**
U	:	**Compound searched for but not detected**
E	:	**Compound exceeds calibration limit**
PQL	:	**Practical Quantitation Limit**
NLE	:	**No limit established**
RT	:	**Retention time**

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC009742.D	Sample Name	MB 24Jun03
Operator	Skelton	Field ID	MB 24Jun03
Date Aquired	24-Jun-03	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MB 24Jun03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30283 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: MB 24Jun03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC009742.D

Level: (low/med) LOW Date Received: 6/11/2003

% Moisture: not dec. Date Analyzed: 6/24/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC009752.D**	Sample Name	**3028301**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Aquired	**25-Jun-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30283 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3028301

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC009752.D

Level: (low/med) LOW Date Received: 6/11/2003

% Moisture: not dec. Date Analyzed: 6/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC009753.D**	Sample Name	**3028302**
Operator	**Skelton**	Field ID	**Field Blank**
Date Aquired	**25-Jun-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30283 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3028302

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC009753.D

Level: (low/med) LOW Date Received: 6/11/2003

% Moisture: not dec. Date Analyzed: 6/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC009754.D**	Sample Name	**3028303**
Operator	**Skelton**	Field ID	**Dupe**
Date Aquired	**25-Jun-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30283 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3028303

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC009754.D

Level: (low/med) LOW Date Received: 6/11/2003

% Moisture: not dec. Date Analyzed: 6/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC009755.D**	Sample Name	**3028304**
Operator	**Skelton**	Field ID	**2567MW01**
Date Aquired	**25-Jun-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol	11.56	224413	186.42 ug/L	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	11.77	93694	1.78 ug/L	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30283 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3028304

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC009755.D

Level: (low/med) LOW Date Received: 6/11/2003

% Moisture: not dec. Date Analyzed: 6/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC009756.D**	Sample Name	**3028305**
Operator	**Skelton**	Field ID	**2567MW02**
Date Aquired	**25-Jun-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30283 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3028305

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC009756.D

Level: (low/med) LOW Date Received: 6/11/2003

% Moisture: not dec. Date Analyzed: 6/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC009757.D**	Sample Name	**3028306**
Operator	**Skelton**	Field ID	**2567MW03**
Date Aquired	**25-Jun-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30283 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3028306

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC009757.D

Level: (low/med) LOW Date Received: 6/11/2003

% Moisture: not dec. Date Analyzed: 6/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC009758.D**	Sample Name	**3028307**
Operator	**Skelton**	Field ID	**2567MW04**
Date Aquired	**25-Jun-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

C:\HPCHEM\Custrpt\Volatile\624FY03.CRT

7/17/2003 3:39 PM

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30283 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3028307

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC009758.D

Level: (low/med) LOW Date Received: 6/11/2003

% Moisture: not dec. Date Analyzed: 6/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC009759.D	Sample Name	3028308
Operator	Skelton	Field ID	2567MW05
Date Aquired	25-Jun-03	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW05**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30283 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3028308

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC009759.D

Level: (low/med) LOW Date Received: 6/11/2003

% Moisture: not dec. Date Analyzed: 6/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC009760.D	Sample Name	3028309
Operator	Skelton	Field ID	2567MW06
Date Aquired	25-Jun-03	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW06**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30283 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3028309

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC009760.D

Level: (low/med) LOW Date Received: 6/11/2003

% Moisture: not dec. Date Analyzed: 6/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC009761.D	Sample Name	3028310
Operator	Skelton	Field ID	2567MW07
Date Aquired	25-Jun-03	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

C:\HPCHEM\Custrpt\Volatile\624FY03.CRT

7/17/2003 3:39 PM

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW07**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30283 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3028310

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC009761.D

Level: (low/med) LOW Date Received: 6/11/2003

% Moisture: not dec. Date Analyzed: 6/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 30283
Sample Received: 06/11/03
Analysis Start: 06/25/03
Analysis Completed: 06/25/03

Site: Ft. Monmouth
2567

Matrix: AQ

Method of Analysis: Std Methods 18th, Method 3120B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)	MDL (ug/L)
3028302	Field Blank	ND	5.00	0.80
3028303	Dupe	1.64	5.00	0.80
3028304	2567MW01	ND	5.00	0.80
3028305	2567MW02	ND	5.00	0.80
3028306	2567MW03	ND	5.00	0.80
3028307	2567MW04	2.26	5.00	0.80
3028308	2567MW05	43.9	5.00	0.80
3028309	2567MW06	ND	5.00	0.80
3028310	2567MW07	0.855	5.00	0.80
Blank	Method Blank	ND	5.00	0.80

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	LAB	LEAD	TERT-BUTYL ALCOHOL	MTBE	Depth to Water						NOTES
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	10	NLE	70	-						-
12/10/1991	ENV PRO	4	4400	2200	-						-
10/26/1992	ENV PRO	ND	5400	1200	-						-
10/26/1992D	ENV PRO	ND	7000	1500	-						-
04/21/1993	21st CEN	70	470	890	-						-
04/28/1993	21st CEN	ND	ND	ND	-						BNA Only
02/03/1994	21st CEN	ND	28	650	-						-
03/31/1994	21st CEN	ND	22	10	-						-
06/14/1994	21st CEN	ND	120	88	-						-
09/15/1994	21st CEN	ND	600	56	-						-
05/25/1995	EMSL	ND	930	110	-						-
08/15/1995	EMSL	3.3	930	29	-						-
11/21/1995	EMSL	ND	860	80	-						-
02/20/1996	EMSL	4	780	100	-						-
06/13/1996	FMETL	1.2	ND	ND	-						-
09/27/1996	FMETL	ND	ND	ND	-						-
04/11/1997	FMETL	2.5	ND	ND	3.80						V,Pb
08/28/1997	FMETL	1.4	ND	240	4.80						V,Pb
12/02/1997	FMETL	7.0	357	20.3	3.90						V,S,P,M
03/04/1998	FMETL	ND	560	37	3.51						V,S,P,M
06/01/1998	FMETL	0.5	95.63	24.23	4.06						V,Pb
09/24/1998	FMETL	ND	283	10.02	5.21						V,Pb
12/09/1998	FMETL	ND	143.26	3.43	4.90						V,Pb
02/24/1999	FMETL	ND	675	26.15	3.75						V,Pb
05/29/1999	FMETL	ND	605.1	9.16	4.20						V,Pb
07/21/1999	FMETL	ND	155.56	3.33	5.48						V,Pb
10/21/1999	FMETL	1.3	497.3	4.8	4.03						V,Pb
02/14/2000	FMETL	1.31	992	8.2	3.31						V,Pb
05/15/2000	FMETL	ND	458.88	5.24	4.04						V,Pb
08/22/2000	FMETL	ND	218.42	1.20	3.87						V,Pb
11/01/2000	FMETL	ND	ND	15.04	4.24						V,Pb
11/01/2000D	FMETL	ND	ND	15.33	4.24						V,Pb
02/09/2001	FMETL	ND	1488.05	4.83	3.30						V,Pb
05/08/2001	FMETL	0.93	764.25	2.10	4.15						V, Pb
08/15/2001	FMETL	ND	248.74	ND	4.95						V, Pb
08/15/2001D	FMETL	ND	457.64	1.54	4.95						V, Pb
11/09/2001	FMETL	ND	ND	1.09	5.11						V, Pb
02/26/2002	FMETL	ND	859.38	1.61	3.95						V, Pb
05/28/2002	FMETL	ND	331.75	ND	4.09						V,Pb
08/20/2002	FMETL	ND	441.16	ND	5.45						V, Pb

07-18-2003 X:\MtechData\2567\2567.WSF

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 06/11/2003

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	TERT-BUTYL ALCOHOL	MTBE	Depth to Water						NOTES
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	10	NLE	70	-						-
10/29/2002	FMETL	1.22	259.69	ND	3.62						V, Pb
02/26/2003	FMETL	1.40	828.6	2.05	3.11						V, Pb
06/11/2003	FMETL	ND	186.42	1.78	3.35						V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 06/11/2003

NOTES:

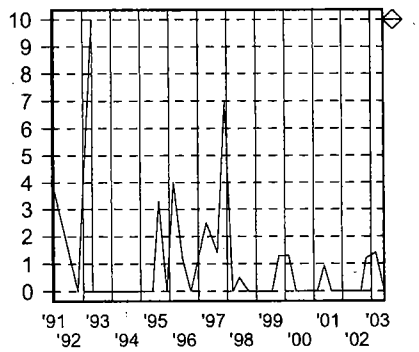
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

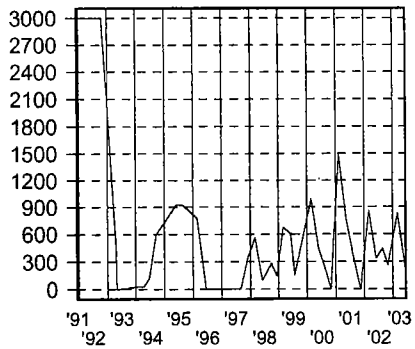
Source 1 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

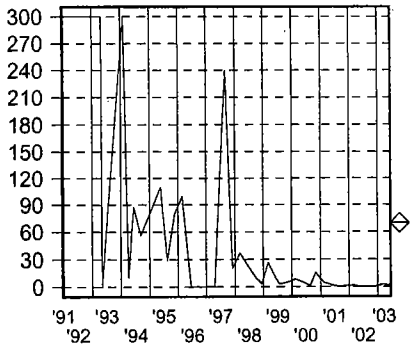
LEAD
(ug/L)



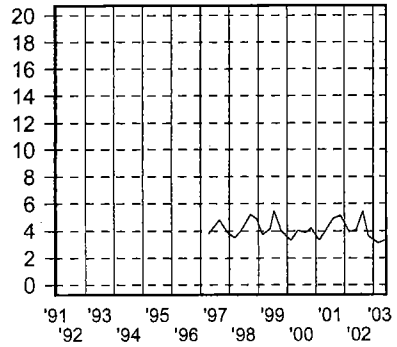
TERT-BUTYL ALCOHOL
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 06/11/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
12/10/1991	ENV PRO	ND	-								-
10/26/1992	ENV PRO	11	-								-
04/21/1993	ENV PRO	ND	-								-
04/28/1993	21st CEN	ND	-								BNA Only
02/03/1994	21st CEN	260	-								-
03/31/1994	21st CEN	ND	-								-
06/14/1994	21st CEN	ND	-								-
09/15/1994	21st CEN	ND	-								-
05/25/1995	EMSL	ND	-								-
08/15/1995	EMSL	5.6	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
06/13/1996	FMETL	ND	-								-
09/27/1996	FMETL	1.2	-								-
04/11/1997	FMETL	10.7	3.40								V,Pb
08/28/1997	FMETL	ND	4.30								V,Pb
12/02/1997	FMETL	20	3.45								V,S,P,M
03/04/1998	FMETL	8.0	2.92								V,S,P,M
06/01/1998	FMETL	1.4	3.59								V,Pb
09/24/1998	FMETL	ND	4.73								V,Pb
12/09/1998	FMETL	ND	3.42								V,Pb
02/24/1999	FMETL	ND	3.38								V,Pb
05/29/1999	FMETL	ND	3.83								V,Pb
07/21/1999	FMETL	ND	5.03								V,Pb
10/21/1999	FMETL	1.2	3.65								V,Pb
02/14/2000	FMETL	1.49	3.00								V,Pb
05/15/2000	FMETL	ND	3.77								V,Pb
08/22/2000	FMETL	ND	3.51								V,Pb
11/01/2000	FMETL	ND	4.15								V,Pb
02/09/2001	FMETL	ND	2.75								V,Pb
05/08/2001	FMETL	1.02	3.95								V, Pb
08/15/2001	FMETL	ND	4.65								V, Pb
11/09/2001	FMETL	ND	4.81								V, Pb
11/09/2001D	FMETL	ND	4.81								V, Pb
02/26/2002	FMETL	ND	3.86								V, Pb
05/28/2002	FMETL	ND	3.83								V,Pb
08/20/2002	FMETL	ND	5.13								V, Pb
10/29/2002	FMETL	2.47	3.32								V, Pb
02/26/2003	FMETL	ND	2.71								V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 06/11/2003

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

07-18-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
06/11/2003	FMETL	ND	3.00								V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 06/11/2003

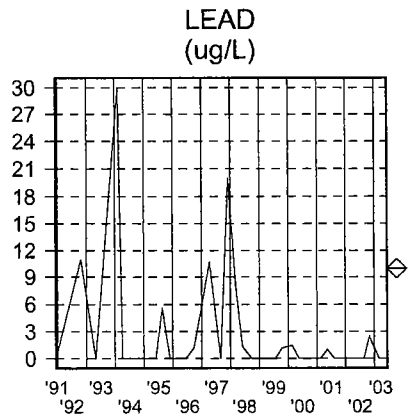
NOTES:

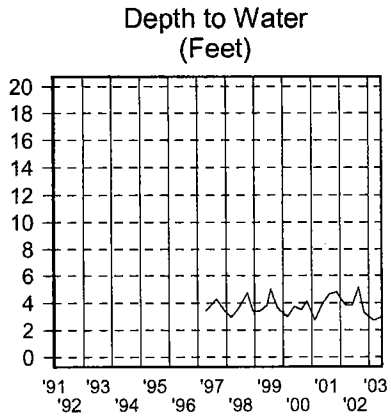
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 06/11/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
12/10/1991	ENV PRO	ND	110	200	ND	69	-				-
10/26/1992	ENV PRO	5	ND	3	ND	ND	-				-
04/21/1993	ENV PRO	60	180	74.2	ND	27	-				-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	-				BNA Only
02/03/1994	21st CEN	41	19	65	ND	9.1	-				-
03/31/1994	21st CEN	25	ND	ND	ND	ND	-				-
06/14/1994	21st CEN	3	15	3.4	ND	100	-				-
09/15/1994	21st CEN	ND	ND	1.4	ND	61	-				-
05/25/1995	EMSL	2.7	94	190	ND	400	-				-
08/15/1995	EMSL	ND	89	360	ND	670	-				-
11/21/1995	EMSL	ND	35	91	46	360	-				-
02/20/1996	EMSL	6	40	70	43	250	-				-
06/13/1996	FMETL	0.7	ND	ND	ND	ND	-				-
09/27/1996	FMETL	6.2	ND	ND	ND	ND	-				-
04/11/1997	FMETL	1.8	ND	ND	ND	ND	3.15				V,Pb
08/28/1997	FMETL	ND	ND	ND	940	62	4.00				V,Pb
12/02/1997	FMETL	10	4.31	ND	ND	188	3.10				V,S,P,M
03/04/1998	FMETL	ND	19	8.6	ND	102	2.48				V,S,P,M
06/19/1998	FMETL	ND	4.68	ND	27.52	81.82	3.99				V,Pb
09/25/1998	FMETL	ND	5.96	3.62	ND	27.27	4.56				V,Pb
12/16/1998	FMETL	ND	15.45	3.67	19.38	20.54	4.25				V,Pb
02/24/1999	FMETL	1.0	1.03	ND	ND	3.3	3.16				V,Pb
05/29/1999	FMETL	ND	1.70	1.29	ND	26.34	3.55				V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	8.98	4.85				V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	13.08	3.93				V,Pb
02/14/2000	FMETL	1.22	ND	ND	ND	3.78	3.42				V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	9.35	3.40				V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	5.36	3.17				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	20.24	3.56				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	1.96	2.50				V,Pb
05/08/2001	FMETL	0.96	ND	ND	ND	11.95	3.40				V, Pb
08/15/2001	FMETL	ND	ND	ND	67.42	17.8	4.30				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	5.51	4.30				V, Pb
02/26/2002	FMETL	ND	ND	ND	31.59	4.14	3.29				V, Pb
05/28/2002	FMETL	ND	ND	ND	ND	3.13	3.40				V,Pb
08/20/2002	FMETL	ND	ND	ND	ND	ND	4.03				V, Pb
10/29/2002	FMETL	ND	ND	ND	ND	2.37	2.98				V, Pb
02/26/2003	FMETL	ND	ND	ND	ND	3.64	2.39				V, Pb
06/11/2003	FMETL	ND	ND	ND	ND	ND	2.55				V, Pb

07-18-2003 X:\MtechData\2567\2567.WSF

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 06/11/2003

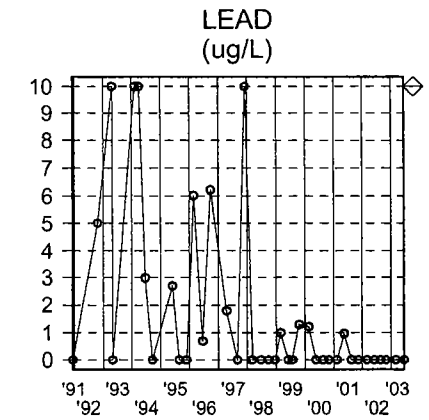
NOTES:

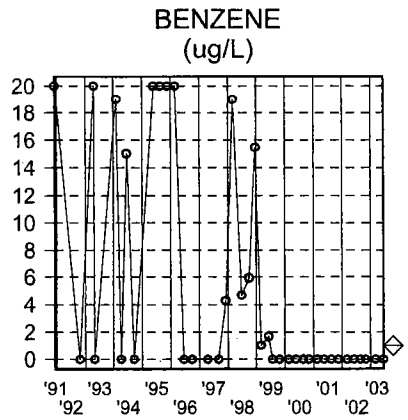
FORT MONMOUTH

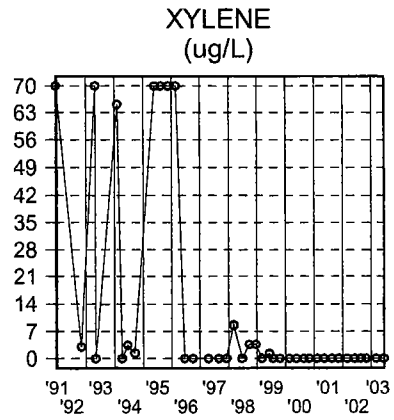
GW MONITORING
Bldg. 2567
Table / Graph A

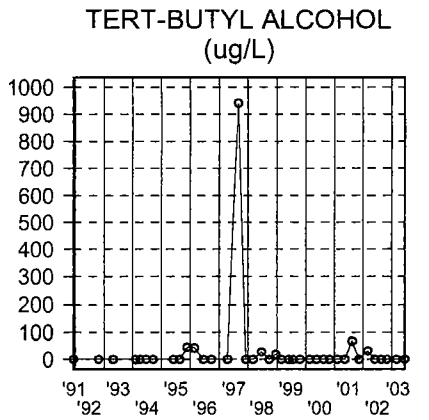
Source 3 of 7

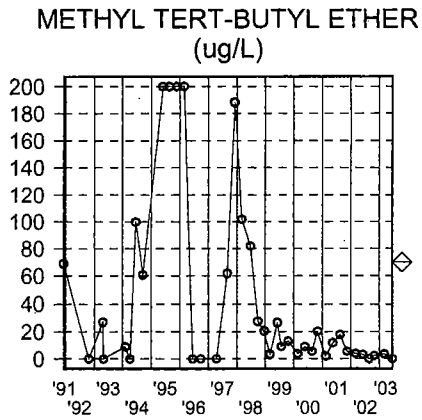
U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

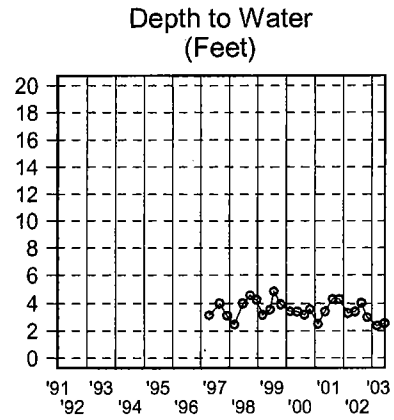












SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 06/11/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

07-18-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
12/10/1991	EMSL	5	-								-
10/26/1992	ENV PRO	ND	-								-
04/21/1993	ENV PRO	ND	-								-
04/28/1993	21st CEN	ND	-								BNA Only
02/03/1994	21st CEN	ND	-								-
03/31/1994	21st CEN	ND	-								-
06/14/1994	21st CEN	ND	-								-
09/15/1994	21st CEN	ND	-								-
05/25/1995	EMSL	ND	-								-
08/15/1995	EMSL	2.6	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
06/13/1996	FMETL	1.8	-								-
09/27/1996	FMETL	ND	-								-
04/11/1997	FMETL	2.3	2.55								V,Pb
08/28/1997	FMETL	ND	3.20								V,Pb
12/02/1997	FMETL	9.0	2.45								V,S,P,M
03/04/1998	FMETL	ND	2.11								V,S,P,M
06/19/1998	FMETL	ND	2.33								V,Pb
09/24/1998	FMETL	ND	3.55								V,Pb
12/12/1998	FMETL	ND	3.11								V,Pb
02/24/1999	FMETL	ND	2.44								V,Pb
05/29/1999	FMETL	ND	2.76								V,Pb
07/21/1999	FMETL	ND	3.98								V,Pb
10/21/1999	FMETL	1.2	2.37								V,Pb
02/14/2000	FMETL	1.4	1.69								V,Pb
05/15/2000	FMETL	ND	2.65								V,Pb
05/15/2000D	FMETL	ND	2.65								V,Pb
08/22/2000	FMETL	ND	2.49								V,Pb
08/22/2000D	FMETL	ND	2.49								V,Pb
11/01/2000	FMETL	ND	2.91								V,Pb
02/09/2001	FMETL	ND	1.99								V,Pb
02/09/2001D	FMETL	ND	1.99								V,Pb
05/08/2001	FMETL	ND	2.68								V, Pb
05/08/2001D	FMETL	1.26	2.68								V, Pb
08/15/2001	FMETL	2.2	3.50								V, Pb
11/09/2001	FMETL	ND	3.65								V, Pb
02/26/2002	FMETL	ND	2.71								V, Pb
05/28/2002	FMETL	ND	2.83								V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 06/11/2003

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/20/2002	FMETL	ND	3.96								V, Pb
10/29/2002	FMETL	ND	2.26								V, Pb
02/26/2003	FMETL	ND	1.84								V, Pb
06/11/2003	FMETL	2.26	2.15								V, Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 06/11/2003

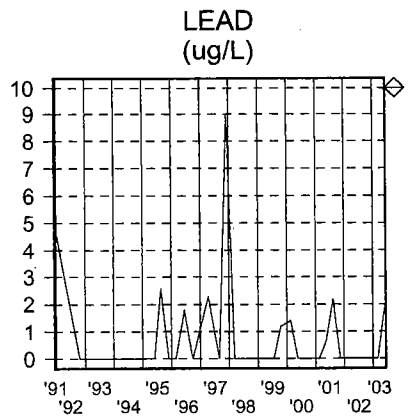
NOTES:

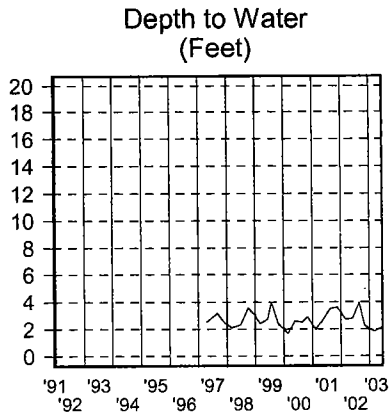
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 06/11/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
05/25/1995	EMSL	4.0	-								-
08/15/1995	EMSL	ND	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
09/27/1996	FMETL	ND	-								-
04/11/1997	FMETL	2.7	7.20								V,Pb
08/28/1997	FMETL	ND	7.50								V,Pb
12/02/1997	FMETL	7.0	7.20								V,S,P,M
03/04/1998	FMETL	ND	7.30								V,S,P,M
06/01/1998	FMETL	ND	7.55								V,Pb
09/25/1998	FMETL	ND	7.59								V,Pb
12/16/1998	FMETL	ND	7.34								V,Pb
02/24/1999	FMETL	ND	8.16								V,Pb
06/08/1999	FMETL	ND	7.33								V,Pb
07/21/1999	FMETL	ND	7.87								V,Pb
10/21/1999	FMETL	4.4	8.57								V,Pb
02/14/2000	FMETL	1.21	5.75								V,Pb
05/15/2000	FMETL	ND	6.92								V,Pb
08/22/2000	FMETL	1.6	6.73								V,Pb
11/01/2000	FMETL	2.4	7.16								V,Pb
02/09/2001	FMETL	ND	5.26								V,Pb
05/08/2001	FMETL	4.53	7.47								V, Pb
08/15/2001	FMETL	8.4	7.70								V, Pb
11/09/2001	FMETL	9.7	7.83								V, Pb
02/26/2002	FMETL	6.5	6.95								V, Pb
05/28/2002	FMETL	3.60	5.91								V,Pb
08/20/2002	FMETL	32.3	8.03								V, Pb
10/29/2002	FMETL	49.5	5.95								V, Pb
02/26/2003	FMETL	3.57	5.37								V, Pb
06/11/2003	FMETL	43.9	5.78								V, Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 06/11/2003

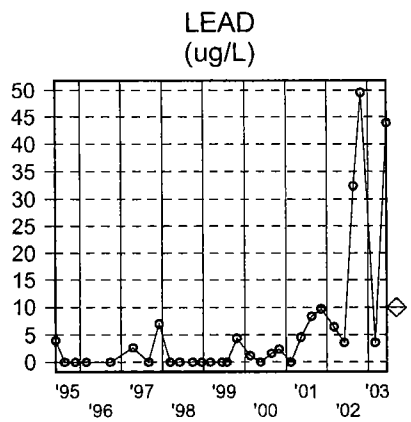
NOTES:

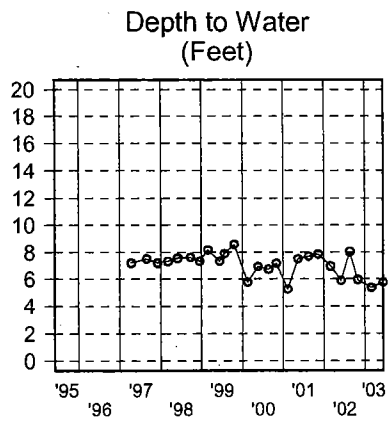
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 06/11/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/22/2000	FMETL	ND	7.06								V,Pb
11/01/2000	FMETL	ND	7.26								V,Pb
02/09/2001	FMETL	ND	6.44								V,Pb
05/08/2001	FMETL	1.48	7.42								V, Pb
08/15/2001	FMETL	ND	8.15								V, Pb
11/09/2001	FMETL	ND	8.09								V, Pb
02/26/2002	FMETL	ND	6.82								V, Pb
05/28/2002	FMETL	ND	7.29								V,Pb
08/20/2002	FMETL	1.32	8.78								V, Pb
10/29/2002	FMETL	ND	6.62								V, Pb
02/26/2003	FMETL	ND	6.24								V, Pb
06/11/2003	FMETL	ND	6.50								V, Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 06/11/2003

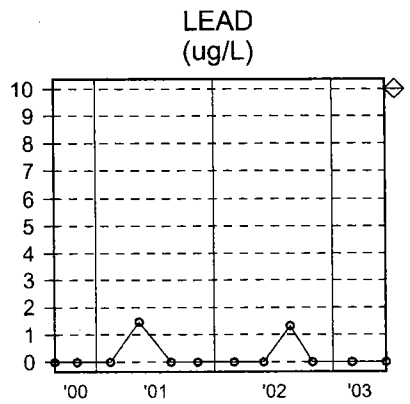
NOTES:

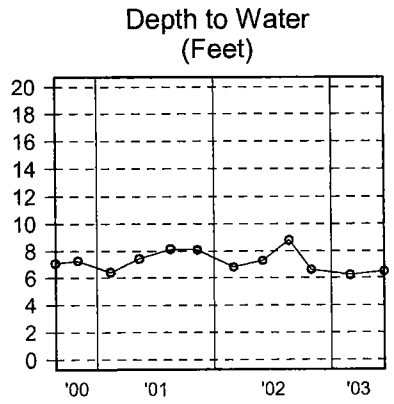
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 06/11/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/22/2000	FMETL	ND	6.65								V,Pb
11/02/2000	FMETL	ND	6.80								V,Pb
02/09/2001	FMETL	ND	6.23								V,Pb
05/08/2001	FMETL	ND	7.02								V, Pb
08/15/2001	FMETL	ND	7.75								V, Pb
11/09/2001	FMETL	ND	7.56								V, Pb
02/26/2002	FMETL	ND	6.71								V, Pb
05/28/2002	FMETL	ND	6.83								V,Pb
08/20/2002	FMETL	ND	8.28								V, Pb
10/29/2002	FMETL	ND	6.40								V, Pb
02/26/2003	FMETL	ND	6.07								V, Pb
06/11/2003	FMETL	0.855	6.26								V, Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 06/11/2003

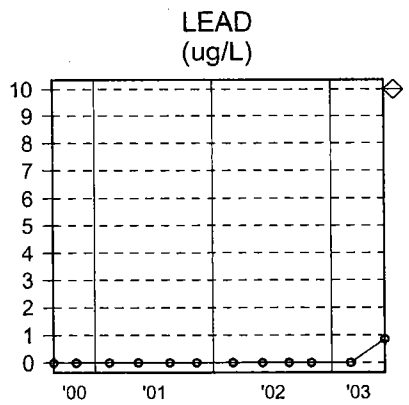
NOTES:

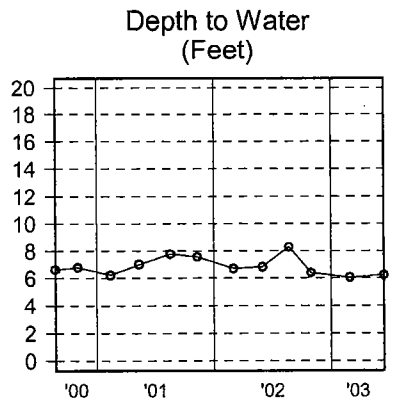
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 06/11/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

07-18-2003 X:\MtechData\2567\2567.WSF

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-4359 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567 #26

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3039704	2567MW01	29-26925	07/22/03
3039705	2567MW02	29-26926	07/22/03
3039706	2567MW03	29-26947	07/22/03
3039707	2567MW04	29-26948	07/22/03
3039708	2567MW05	29-31783	07/22/03
3039709	2567MW06	29-42585	07/22/03
3039710	2567MW07	29-42586	07/22/03

NJDEP Laboratory Certification # 13461

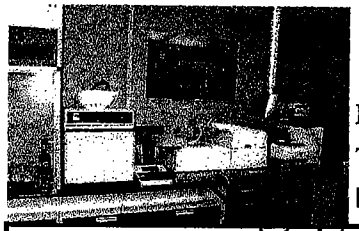
9-29-03
Daniel Wright/Date
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon
Phone #: X26223
(X)DERA ( )OMA ( )Other:_____
Project No:
Location: 2567 wells
3rd Qrtr '03
Samplers Name / Company: Corey McCormack, TVS

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	VOTS	Pb						Hnu Read	Remarks / Preservation Method
30397 01	Trip	7/22/03	0830	AQ	2	✓							—	
02	Field Blank		1045		3	✓	✓						—	
03	Dupe		—		3	✓	✓						—	
04	2567 mw01		1119		3	✓	✓						0.0	29-26925
05	2567 mw02		1104			✓	✓						0.0	29-26926
06	2567 mw03 *		1102			✓	✓						7.2	29-26927
07	2567 mw04		1118			✓	✓						0.0	29-26948
08	2567 mw05		1418			✓	✓						0.0	29-31783
09	2567 mw06		1050			✓	✓						0.0	29-42595
10	2567 mw07		1054			✓	✓						0.0	29-42586

Analysis Parameters

Comments:

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	7/22/03 1530	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____Hrs.

Remarks:
Tide: N/A

print legibly

COC.XLS6/17/2003

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 07/22/03
WEATHER: Sunny hot and humid.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.39 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.71 ft
(8.71) X .65 X 3 = 16.98
GALLONS OF H_2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:04
pH 6.13 su — TEMP 22.19 °C
DISSOLVED O_2 2.83 mg/L — SPECIFIC CONDUCTIVITY 840 µs/cm

PURGE END TIME: 11:18
pH 6.20 su — TEMP 21.87 °C
DISSOLVED O_2 0.44 mg/L — SPECIFIC CONDUCTIVITY 877 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 5.32 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 11:19
pH 6.22 su — TEMP 21.93 °C
DISSOLVED O_2 0.40 mg/L — SPECIFIC CONDUCTIVITY 879 µs/cm

SAMPLE END TIME: 11:22

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 07/22/03
WEATHER: Sunny hot and humid.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.91 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.29 ft
(8.29) X .65 X 3 = 16.15
GALLONS OF H_2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:54
pH 6.12 su — TEMP 23.31 °C
DISSOLVED O_2 3.11 mg/L — SPECIFIC CONDUCTIVITY 333 µs/cm

PURGE END TIME: 11:03
pH 6.12 su — TEMP 22.74 °C
DISSOLVED O_2 0.48 mg/L — SPECIFIC CONDUCTIVITY 308 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.66 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 11:04
pH 6.12 su — TEMP 22.63 °C
DISSOLVED O_2 0.43 mg/L — SPECIFIC CONDUCTIVITY 291 µs/cm

SAMPLE END TIME: 11:07

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 07/22/03
WEATHER: Sunny hot and humid.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.81 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.69 ft
(8.69) X .65 X 3 = 16.94
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.02 ppm

PURGE START TIME: 09:47
pH 5.88 su — TEMP 22.59 °C
DISSOLVED O_2 2.98 mg/L — SPECIFIC CONDUCTIVITY 738 µs/cm

PURGE END TIME: 11:01
pH 5.92 su — TEMP 22.33 °C
DISSOLVED O_2 0.45 mg/L — SPECIFIC CONDUCTIVITY 784 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 5.35 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 11:02
pH 5.94 su — TEMP 22.37 °C
DISSOLVED O_2 0.40 mg/L — SPECIFIC CONDUCTIVITY 785 µs/cm

SAMPLE END TIME: 11:03

COMMENTS: DUP here. Slightly cloudy with fuel odor.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 07/22/03
WEATHER: Sunny hot and humid.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.62 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.04 ft
(9.04) X .65 X 3 = 17.62
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:59
pH 6.21 su — TEMP 22.67 °C
DISSOLVED O_2 3.58 mg/L — SPECIFIC CONDUCTIVITY 524 µs/cm

PURGE END TIME: 11:17
pH 6.08 su — TEMP 21.82 °C
DISSOLVED O_2 0.61 mg/L — SPECIFIC CONDUCTIVITY 561 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.05 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 11:18
pH 6.05 su — TEMP 21.77 °C
DISSOLVED O_2 0.52 mg/L — SPECIFIC CONDUCTIVITY 566 µs/cm

SAMPLE END TIME: 11:19

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 07/22/03
WEATHER: Sunny hot and humid.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.30 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.45 ft
(7.45) X .65 X 3 = 14.52
GALLONS OF H_2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 13:12
pH 6.17 su — TEMP 18.76 °C
DISSOLVED O_2 3.71 mg/L — SPECIFIC CONDUCTIVITY 271 µs/cm

PURGE END TIME: 14:17
pH 6.04 su — TEMP 17.83 °C
DISSOLVED O_2 1.41 mg/L — SPECIFIC CONDUCTIVITY 291 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 10.26 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 14:18
pH 6.04 su — TEMP 17.81 °C
DISSOLVED O_2 1.38 mg/L — SPECIFIC CONDUCTIVITY 292 µs/cm

SAMPLE END TIME: 14:20

COMMENTS: Cloudy and brown.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 07/22/03
WEATHER: Sunny hot and humid.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.61 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.13 ft
(8.13) X .65 X 3 = 15.85
GALLONS OF H_2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:40
pH 4.74 su — TEMP 18.00 °C
DISSOLVED O_2 8.92 mg/L — SPECIFIC CONDUCTIVITY 177 µs/cm

PURGE END TIME: 10:49
pH 4.66 su — TEMP 17.74 °C
DISSOLVED O_2 1.01 mg/L — SPECIFIC CONDUCTIVITY 177 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 9.51 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 10:50
pH 4.65 su — TEMP 17.66 °C
DISSOLVED O_2 0.91 mg/L — SPECIFIC CONDUCTIVITY 177 µs/cm

SAMPLE END TIME: 10:52

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 07/22/03
WEATHER: Sunny hot and humid.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.19 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.31 ft
(9.31) X .65 X 3 = 18.15
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:35
pH 5.34 su TEMP 19.45 °C
DISSOLVED O_2 7.11 mg/L SPECIFIC CONDUCTIVITY 191 µs/cm

PURGE END TIME: 10:53
pH 5.56 su TEMP 18.64 °C
DISSOLVED O_2 0.63 mg/L SPECIFIC CONDUCTIVITY 315 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 10.14 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:54
pH 5.64 su TEMP 18.57 °C
DISSOLVED O_2 0.57 mg/L SPECIFIC CONDUCTIVITY 331 µs/cm

SAMPLE END TIME: 10:56

COMMENTS:

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL	:	**Method Detection Limit**
J	:	**Compound identified below detection limit**
B	:	**Compound found in blank**
D	:	**Results are from a dilution of the sample**
U	:	**Compound searched for but not detected**
E	:	**Compound exceeds calibration limit**
PQL	:	**Practical Quantitation Limit**
NLE	:	**No limit established**
RT	:	**Retention time**

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC009983.D**	Sample Name	**MB 24Jul03**
Operator	**Skelton**	Field ID	**MB 24Jul03**
Date Aquired	**24-Jul-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MB 24July03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30397 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: MB 24Jul03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC009983.D

Level: (low/med) LOW Date Received: 7/22/2003

% Moisture: not dec. Date Analyzed: 7/24/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC010001.D**	Sample Name	**3039701**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Aquired	**24-Jul-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform	15.58	64322	1.04 ug/L	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30397 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3039701

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC010001.D

Level: (low/med) LOW Date Received: 7/22/2003

% Moisture: not dec. _____ Date Analyzed: 7/24/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC010002.D**	Sample Name	**3039702**
Operator	**Skelton**	Field ID	**Field Blank**
Date Aquired	**24-Jul-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform	15.59	63354	1.10 ug/L	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30397 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3039702

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC010002.D

Level: (low/med) LOW Date Received: 7/22/2003

% Moisture: not dec. Date Analyzed: 7/24/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC010003.D	Sample Name	3039703
Operator	Skelton	Field ID	Dupe
Date Aquired	25-Jul-03	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	11.76	431602	5.30 ug/L	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30397 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3039703

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC010003.D

Level: (low/med) LOW Date Received: 7/22/2003

% Moisture: not dec. Date Analyzed: 7/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000109-66-0	Pentane	7.65	4	JN
2. 000079-29-8	Butane, 2,3-dimethyl-	10.75	11	JN
3. 000107-83-5	Pentane, 2-methyl-	10.89	15	JN
4.	unknown	11.05	10	J
5. 000096-14-0	Pentane, 3-methyl-	11.66	18	JN
6. 000096-37-7	Cyclopentane, methyl-	14.25	44	JN
7. 000110-82-7	Cyclohexane	16.03	14	JN
8. 000098-82-8	Benzene, (1-methylethyl)-	27.33	7	JN
9. 000103-65-1	Benzene, propyl-	28.32	9	JN
10. 000496-11-7	Indane	31.09	17	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC010004.D**	Sample Name	**3039704**
Operator	**Skelton**	Field ID	**2567MW01**
Date Aquired	**25-Jul-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol	11.55	376351	205.86 ug/L	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	11.76	153885	1.93 ug/L	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30397 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3039704

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC010004.D

Level: (low/med) LOW Date Received: 7/22/2003

% Moisture: not dec. Date Analyzed: 7/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC010007.D**	Sample Name	**3039705**
Operator	**Skelton**	Field ID	**2567MW02**
Date Aquired	**25-Jul-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30397 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3039705

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC010007.D

Level: (low/med) LOW Date Received: 7/22/2003

% Moisture: not dec. Date Analyzed: 7/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC010008.D**	Sample Name	**3039706**
Operator	**Skelton**	Field ID	**2567MW03**
Date Aquired	**25-Jul-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	11.77	561824	6.82 ug/L	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30397 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3039706

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC010008.D

Level: (low/med) LOW Date Received: 7/22/2003

% Moisture: not dec. Date Analyzed: 7/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 11

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.75	20	JN
2.	unknown	7.65	8	J
3.	unknown	10.75	15	J
4. 000107-83-5	Pentane, 2-methyl-	10.88	20	JN
5.	unknown	11.05	13	J
6. 000096-14-0	Pentane, 3-methyl-	11.65	23	JN
7. 000096-37-7	Cyclopentane, methyl-	14.25	56	JN
8. 000110-82-7	Cyclohexane	16.04	18	JN
9. 000098-82-8	Benzene, (1-methylethyl)-	27.32	10	JN
10. 000103-65-1	Benzene, propyl-	28.32	12	JN
11. 000496-11-7	Indane	31.08	23	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC010009.D**	Sample Name	**3039707**
Operator	**Skelton**	Field ID	**2567MW04**
Date Aquired	**25-Jul-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30397 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3039707

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC010009.D

Level: (low/med) LOW Date Received: 7/22/2003

% Moisture: not dec. _____ Date Analyzed: 7/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC010010.D**	Sample Name	**3039708**
Operator	**Skelton**	Field ID	**2567MW05**
Date Aquired	**25-Jul-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW05**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30397 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3039708

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC010010.D

Level: (low/med) LOW Date Received: 7/22/2003

% Moisture: not dec. _____ Date Analyzed: 7/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC010011.D**	Sample Name	**3039709**
Operator	**Skelton**	Field ID	**2567MW06**
Date Aquired	**25-Jul-03**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW06**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30397 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3039709

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC010011.D

Level: (low/med) LOW Date Received: 7/22/2003

% Moisture: not dec. Date Analyzed: 7/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	VC010012.D	Sample Name	3039710
Operator	Skelton	Field ID	2567MW07
Date Aquired	25-Jul-03	Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW07**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30397 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3039710

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC010012.D

Level: (low/med) LOW Date Received: 7/22/2003

% Moisture: not dec. _____ Date Analyzed: 7/25/2003

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 30571
Sample Received: NA
Analysis Start: 09/12/03
Analysis Completed: 09/12/03

Site: Ft. Monmouth
2567

Matrix: AQ

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)*	RL (ug/L)	MDL (ug/L)
Method Blank	NA	ND	10	5.00	0.800

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable
*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6
RL = Reporting Limit. Note: The results reported between the MDL and RL are estimated.

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 30397
Sample Received: 07/22/03
Analysis Start: 08/07/03
Analysis Completed: 08/11/03

Site: Ft. Monmouth
2567

Matrix: AQ

Method of Analysis: Std Methods 18th, Method 3120B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)*	RL (ug/L)	MDL (ug/L)
3039702	Field Blank	ND	10.0	5.00	0.800
3039703	Dupe	ND	10.0	5.00	0.800
3039704	2567MW01	ND	10.0	5.00	0.800
3039706	2567MW03	0.983	10.0	5.00	0.800
3039707	2567MW04	1.22	10.0	5.00	0.800
3039708	2567MW05	22.1	10.0	5.00	0.800
3039709	2567MW06	ND	10.0	5.00	0.800
3039710	2567MW07	ND	10.0	5.00	0.800
Blank	Method Blank	ND	10.0	5.00	0.800

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable
*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6
RL = Reporting Limit. Note: The results reported between the MDL and RL are estimated.

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 3057101
Sample Received: 09/08/03
Analysis Start: 09/12/03
Analysis Completed: 09/12/03

Site: Ft. Monmouth
2567

Matrix: AQ

Method of Analysis: Std Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)*	RL (ug/L)	MDL (ug/L)
3057101	2567MW02	5.20	10	5.00	0.800

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable
*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6
RL = Reporting Limit. Note: The results reported between the MDL and RL are estimated.

LTM

	LAB	LEAD	TERT-BUTYL ALCOHOL	MTBE	Depth to Water						NOTES
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	10	NLE	70	-						-
12/10/1991	ENV PRO	4	4400	2200	-						-
10/26/1992	ENV PRO	ND	5400	1200	-						-
10/26/1992D	ENV PRO	ND	7000	1500	-						-
04/21/1993	21st CEN	70	470	890	-						-
04/28/1993	21st CEN	ND	ND	ND	-						BNA Only
02/03/1994	21st CEN	ND	28	650	-						-
03/31/1994	21st CEN	ND	22	10	-						-
06/14/1994	21st CEN	ND	120	88	-						-
09/15/1994	21st CEN	ND	600	56	-						-
05/25/1995	EMSL	ND	930	110	-						-
08/15/1995	EMSL	3.3	930	29	-						-
11/21/1995	EMSL	ND	860	80	-						-
02/20/1996	EMSL	4	780	100	-						-
06/13/1996	FMETL	1.2	ND	ND	-						-
09/27/1996	FMETL	ND	ND	ND	-						-
04/11/1997	FMETL	2.5	ND	ND	3.80						V,Pb
08/28/1997	FMETL	1.4	ND	240	4.80						V,Pb
12/02/1997	FMETL	7.0	357	20.3	3.90						V,S,P,M
03/04/1998	FMETL	ND	560	37	3.51						V,S,P,M
06/01/1998	FMETL	0.5	95.63	24.23	4.06						V,Pb
09/24/1998	FMETL	ND	283	10.02	5.21						V,Pb
12/09/1998	FMETL	ND	143.26	3.43	4.90						V,Pb
02/24/1999	FMETL	ND	675	26.15	3.75						V,Pb
05/29/1999	FMETL	ND	605.1	9.16	4.20						V,Pb
07/21/1999	FMETL	ND	155.56	3.33	5.48						V,Pb
10/21/1999	FMETL	1.3	497.3	4.8	4.03						V,Pb
02/14/2000	FMETL	1.31	992	8.2	3.31						V,Pb
05/15/2000	FMETL	ND	458.88	5.24	4.04						V,Pb
08/22/2000	FMETL	ND	218.42	1.20	3.87						V,Pb
11/01/2000	FMETL	ND	ND	15.04	4.24						V,Pb
11/01/2000D	FMETL	ND	ND	15.33	4.24						V,Pb
02/09/2001	FMETL	ND	1488.05	4.83	3.30						V,Pb
05/08/2001	FMETL	0.93	764.25	2.10	4.15						V, Pb
08/15/2001	FMETL	ND	248.74	ND	4.95						V, Pb
08/15/2001D	FMETL	ND	457.64	1.54	4.95						V, Pb
11/09/2001	FMETL	ND	ND	1.09	5.11						V, Pb
02/26/2002	FMETL	ND	859.38	1.61	3.95						V, Pb
05/28/2002	FMETL	ND	331.75	ND	4.09						V,Pb
08/20/2002	FMETL	ND	441.16	ND	5.45						V, Pb

09-23-2003 X:\MtechData\2567\2567.WSF

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 07/22/2003

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	TERT-BUTYL ALCOHOL	MTBE	Depth to Water						NOTES
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	10	NLE	70	-						-
10/29/2002	FMETL	1.22	259.69	ND	3.62						V, Pb
02/26/2003	FMETL	1.40	828.6	2.05	3.11						V, Pb
06/11/2003	FMETL	ND	186.42	1.78	3.35						V, Pb
07/22/2003	FMETL	ND	205.86	1.93	4.39						V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 07/22/2003

NOTES:

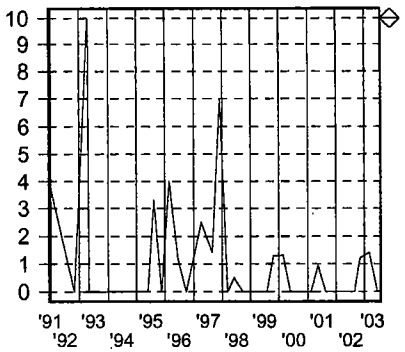
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

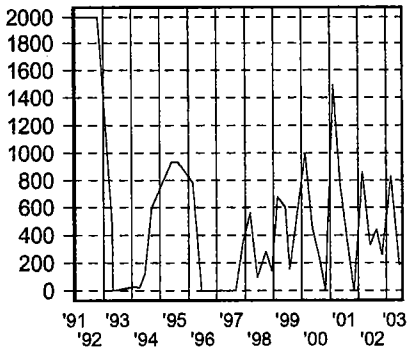
Source 1 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

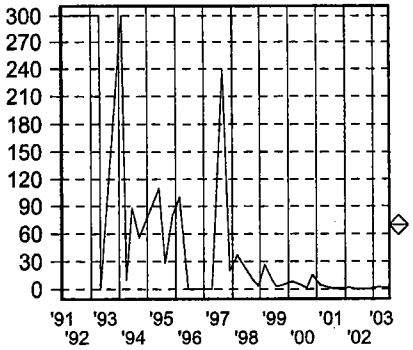
LEAD
(ug/L)



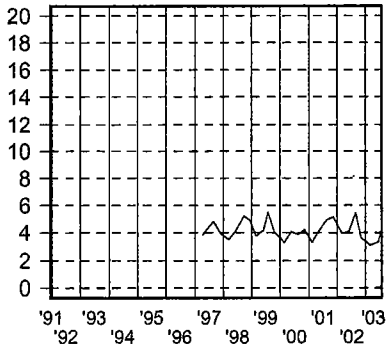
TERT-BUTYL ALCOHOL
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 07/22/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
12/10/1991	ENV PRO	ND	-								-
10/26/1992	ENV PRO	11	-								-
04/21/1993	ENV PRO	ND	-								-
04/28/1993	21st CEN	ND	-								BNA Only
02/03/1994	21st CEN	260	-								-
03/31/1994	21st CEN	ND	-								-
06/14/1994	21st CEN	ND	-								-
09/15/1994	21st CEN	ND	-								-
05/25/1995	EMSL	ND	-								-
08/15/1995	EMSL	5.6	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
06/13/1996	FMETL	ND	-								-
09/27/1996	FMETL	1.2	-								-
04/11/1997	FMETL	10.7	3.40								V,Pb
08/28/1997	FMETL	ND	4.30								V,Pb
12/02/1997	FMETL	20	3.45								V,S,P,M
03/04/1998	FMETL	8.0	2.92								V,S,P,M
06/01/1998	FMETL	1.4	3.59								V,Pb
09/24/1998	FMETL	ND	4.73								V,Pb
12/09/1998	FMETL	ND	3.42								V,Pb
02/24/1999	FMETL	ND	3.38								V,Pb
05/29/1999	FMETL	ND	3.83								V,Pb
07/21/1999	FMETL	ND	5.03								V,Pb
10/21/1999	FMETL	1.2	3.65								V,Pb
02/14/2000	FMETL	1.49	3.00								V,Pb
05/15/2000	FMETL	ND	3.77								V,Pb
08/22/2000	FMETL	ND	3.51								V,Pb
11/01/2000	FMETL	ND	4.15								V,Pb
02/09/2001	FMETL	ND	2.75								V,Pb
05/08/2001	FMETL	1.02	3.95								V, Pb
08/15/2001	FMETL	ND	4.65								V, Pb
11/09/2001	FMETL	ND	4.81								V, Pb
11/09/2001D	FMETL	ND	4.81								V, Pb
02/26/2002	FMETL	ND	3.86								V, Pb
05/28/2002	FMETL	ND	3.83								V,Pb
08/20/2002	FMETL	ND	5.13								V, Pb
10/29/2002	FMETL	2.47	3.32								V, Pb
02/26/2003	FMETL	ND	2.71								V, Pb

09-23-2003 X:\MtechData\2567\2567.WSF

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 07/22/2003

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
06/11/2003	FMETL	ND	3.00								V, Pb
07/22/2003	FMETL	5.20	3.91								V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 07/22/2003

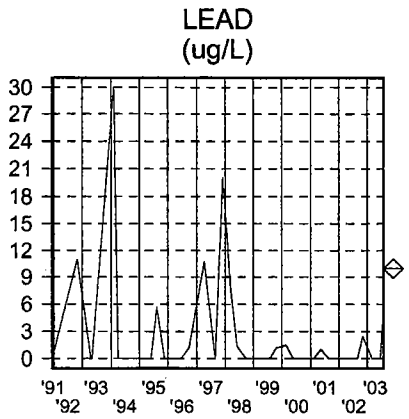
NOTES:

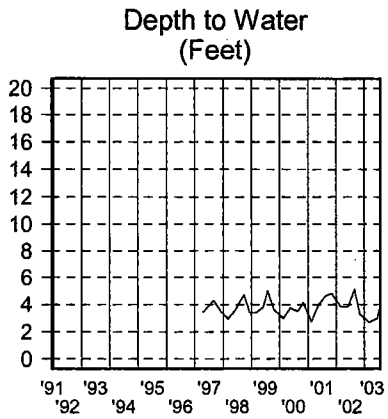
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 07/22/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	BENZENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water					NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	Feet					-
NJDEP Criteria:	-	10	1	NLE	70	-					-
12/10/1991	ENV PRO	ND	110	ND	69	-					-
10/26/1992	ENV PRO	5	ND	ND	ND	-					-
04/21/1993	ENV PRO	60	180	ND	27	-					-
04/28/1993	21st CEN	ND	ND	ND	ND	-					BNA Only
02/03/1994	21st CEN	41	19	ND	9.1	-					-
03/31/1994	21st CEN	25	ND	ND	ND	-					-
06/14/1994	21st CEN	3	15	ND	100	-					-
09/15/1994	21st CEN	ND	ND	ND	61	-					-
05/25/1995	EMSL	2.7	94	ND	400	-					-
08/15/1995	EMSL	ND	89	ND	670	-					-
11/21/1995	EMSL	ND	35	46	360	-					-
02/20/1996	EMSL	6	40	43	250	-					-
06/13/1996	FMETL	0.7	ND	ND	ND	-					-
09/27/1996	FMETL	6.2	ND	ND	ND	-					-
04/11/1997	FMETL	1.8	ND	ND	ND	3.15					V,Pb
08/28/1997	FMETL	ND	ND	940	62	4.00					V,Pb
12/02/1997	FMETL	10	4.31	ND	188	3.10					V,S,P,M
03/04/1998	FMETL	ND	19	ND	102	2.48					V,S,P,M
06/19/1998	FMETL	ND	4.68	27.52	81.82	3.99					V,Pb
09/25/1998	FMETL	ND	5.96	ND	27.27	4.56					V,Pb
12/16/1998	FMETL	ND	15.45	19.38	20.54	4.25					V,Pb
02/24/1999	FMETL	1.0	1.03	ND	3.3	3.16					V,Pb
05/29/1999	FMETL	ND	1.70	ND	26.34	3.55					V,Pb
07/21/1999	FMETL	ND	ND	ND	8.98	4.85					V,Pb
10/21/1999	FMETL	1.3	ND	ND	13.08	3.93					V,Pb
02/14/2000	FMETL	1.22	ND	ND	3.78	3.42					V,Pb
05/15/2000	FMETL	ND	ND	ND	9.35	3.40					V,Pb
08/22/2000	FMETL	ND	ND	ND	5.36	3.17					V,Pb
11/01/2000	FMETL	ND	ND	ND	20.24	3.56					V,Pb
02/09/2001	FMETL	ND	ND	ND	1.96	2.50					V,Pb
05/08/2001	FMETL	0.96	ND	ND	11.95	3.40					V, Pb
08/15/2001	FMETL	ND	ND	67.42	17.8	4.30					V, Pb
11/09/2001	FMETL	ND	ND	ND	5.51	4.30					V, Pb
02/26/2002	FMETL	ND	ND	31.59	4.14	3.29					V, Pb
05/28/2002	FMETL	ND	ND	ND	3.13	3.40					V,Pb
08/20/2002	FMETL	ND	ND	ND	ND	4.03					V, Pb
10/29/2002	FMETL	ND	ND	ND	2.37	2.98					V, Pb
02/26/2003	FMETL	ND	ND	ND	3.64	2.39					V, Pb
06/11/2003	FMETL	ND	ND	ND	ND	2.55					V, Pb

09-23-2003 X:\MtechData\2567\2567.WSF

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 07/22/2003

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	BENZENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water					NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	Feet					-
NJDEP Criteria:	-	10	1	NLE	70	-					-
07/22/2003	FMETL	0.983	ND	ND	6.82	3.81					V, Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 07/22/2003

NOTES:

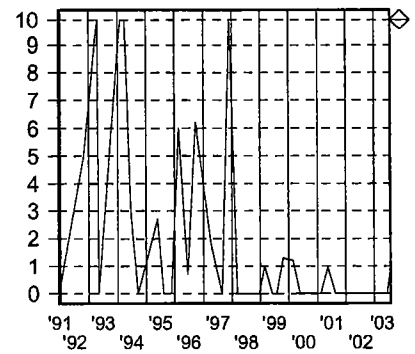
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

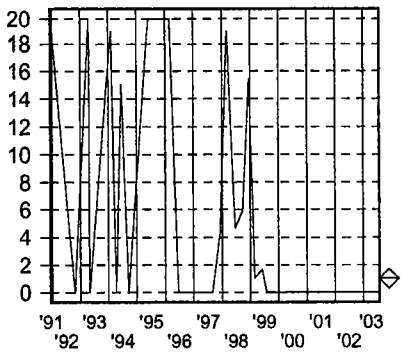
Source 3 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

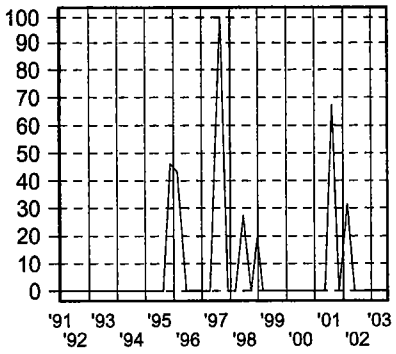
LEAD
(ug/L)



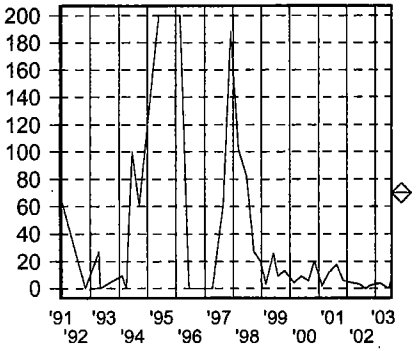
BENZENE
(ug/L)



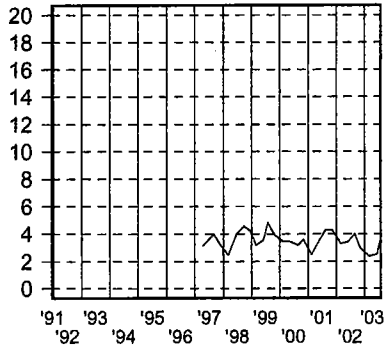
TERT-BUTYL ALCOHOL
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 07/22/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-23-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
12/10/1991	EMSL	5	-								-
10/26/1992	ENV PRO	ND	-								-
04/21/1993	ENV PRO	ND	-								-
04/28/1993	21st CEN	ND	-								BNA Only
02/03/1994	21st CEN	ND	-								-
03/31/1994	21st CEN	ND	-								-
06/14/1994	21st CEN	ND	-								-
09/15/1994	21st CEN	ND	-								-
05/25/1995	EMSL	ND	-								-
08/15/1995	EMSL	2.6	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
06/13/1996	FMETL	1.8	-								-
09/27/1996	FMETL	ND	-								-
04/11/1997	FMETL	2.3	2.55								V,Pb
08/28/1997	FMETL	ND	3.20								V,Pb
12/02/1997	FMETL	9.0	2.45								V,S,P,M
03/04/1998	FMETL	ND	2.11								V,S,P,M
06/19/1998	FMETL	ND	2.33								V,Pb
09/24/1998	FMETL	ND	3.55								V,Pb
12/12/1998	FMETL	ND	3.11								V,Pb
02/24/1999	FMETL	ND	2.44								V,Pb
05/29/1999	FMETL	ND	2.76								V,Pb
07/21/1999	FMETL	ND	3.98								V,Pb
10/21/1999	FMETL	1.2	2.37								V,Pb
02/14/2000	FMETL	1.4	1.69								V,Pb
05/15/2000	FMETL	ND	2.65								V,Pb
05/15/2000D	FMETL	ND	2.65								V,Pb
08/22/2000	FMETL	ND	2.49								V,Pb
08/22/2000D	FMETL	ND	2.49								V,Pb
11/01/2000	FMETL	ND	2.91								V,Pb
02/09/2001	FMETL	ND	1.99								V,Pb
02/09/2001D	FMETL	ND	1.99								V,Pb
05/08/2001	FMETL	ND	2.68								V, Pb
05/08/2001D	FMETL	1.26	2.68								V, Pb
08/15/2001	FMETL	2.2	3.50								V, Pb
11/09/2001	FMETL	ND	3.65								V, Pb
02/26/2002	FMETL	ND	2.71								V, Pb
05/28/2002	FMETL	ND	2.83								V,Pb

09-23-2003 X:\MtechData\2567\2567.WSF

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 07/22/2003

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/20/2002	FMETL	ND	3.96								V, Pb
10/29/2002	FMETL	ND	2.26								V, Pb
02/26/2003	FMETL	ND	1.84								V, Pb
06/11/2003	FMETL	2.26	2.15								V, Pb
07/22/2003	FMETL	1.22	2.62								V, Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 07/22/2003

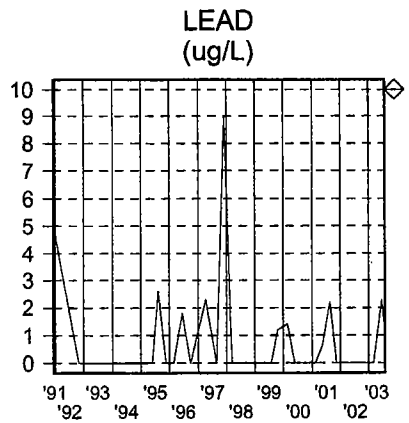
NOTES:

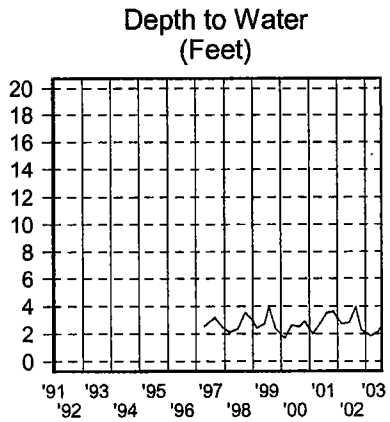
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 07/22/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-23-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
05/25/1995	EMSL	4.0	-								-
08/15/1995	EMSL	ND	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
09/27/1996	FMETL	ND	-								-
04/11/1997	FMETL	2.7	7.20								V,Pb
08/28/1997	FMETL	ND	7.50								V,Pb
12/02/1997	FMETL	7.0	7.20								V,S,P,M
03/04/1998	FMETL	ND	7.30								V,S,P,M
06/01/1998	FMETL	ND	7.55								V,Pb
09/25/1998	FMETL	ND	7.59								V,Pb
12/16/1998	FMETL	ND	7.34								V,Pb
02/24/1999	FMETL	ND	8.16								V,Pb
06/08/1999	FMETL	ND	7.33								V,Pb
07/21/1999	FMETL	ND	7.87								V,Pb
10/21/1999	FMETL	4.4	8.57								V,Pb
02/14/2000	FMETL	1.21	5.75								V,Pb
05/15/2000	FMETL	ND	6.92								V,Pb
08/22/2000	FMETL	1.6	6.73								V,Pb
11/01/2000	FMETL	2.4	7.16								V,Pb
02/09/2001	FMETL	ND	5.26								V,Pb
05/08/2001	FMETL	4.53	7.47								V, Pb
08/15/2001	FMETL	8.4	7.70								V, Pb
11/09/2001	FMETL	9.7	7.83								V, Pb
02/26/2002	FMETL	6.5	6.95								V, Pb
05/28/2002	FMETL	3.60	5.91								V,Pb
08/20/2002	FMETL	32.3	8.03								V, Pb
10/29/2002	FMETL	49.5	5.95								V, Pb
02/26/2003	FMETL	3.57	5.37								V, Pb
06/11/2003	FMETL	43.9	5.78								V, Pb
07/22/2003	FMETL	22.1	7.30								V, Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 07/22/2003

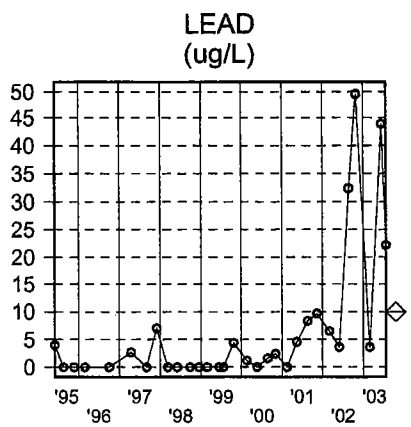
NOTES:

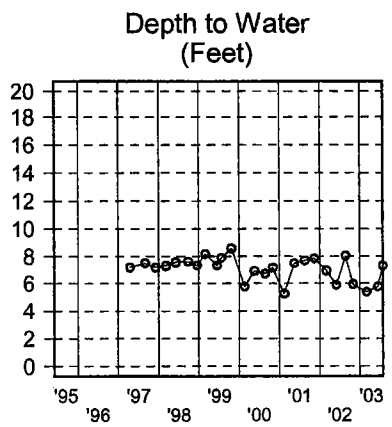
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 07/22/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-23-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/22/2000	FMETL	ND	7.06								V,Pb
11/01/2000	FMETL	ND	7.26								V,Pb
02/09/2001	FMETL	ND	6.44								V,Pb
05/08/2001	FMETL	1.48	7.42								V, Pb
08/15/2001	FMETL	ND	8.15								V, Pb
11/09/2001	FMETL	ND	8.09								V, Pb
02/26/2002	FMETL	ND	6.82								V, Pb
05/28/2002	FMETL	ND	7.29								V,Pb
08/20/2002	FMETL	1.32	8.78								V, Pb
10/29/2002	FMETL	ND	6.62								V, Pb
02/26/2003	FMETL	ND	6.24								V, Pb
06/11/2003	FMETL	ND	6.50								V, Pb
07/22/2003	FMETL	ND	7.61								V, Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 07/22/2003

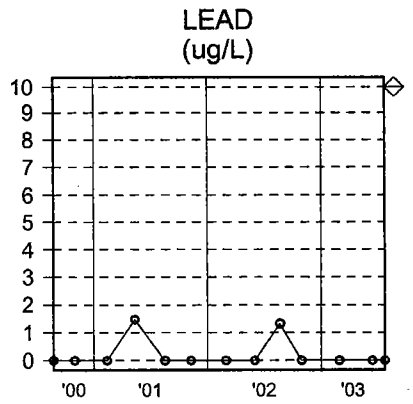
NOTES:

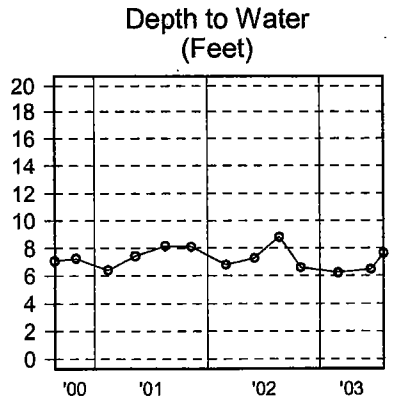
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 07/22/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

09-23-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/22/2000	FMETL	ND	6.65								V,Pb
11/02/2000	FMETL	ND	6.80								V,Pb
02/09/2001	FMETL	ND	6.23								V,Pb
05/08/2001	FMETL	ND	7.02								V, Pb
08/15/2001	FMETL	ND	7.75								V, Pb
11/09/2001	FMETL	ND	7.56								V, Pb
02/26/2002	FMETL	ND	6.71								V, Pb
05/28/2002	FMETL	ND	6.83								V,Pb
08/20/2002	FMETL	ND	8.28								V, Pb
10/29/2002	FMETL	ND	6.40								V, Pb
02/26/2003	FMETL	ND	6.07								V, Pb
06/11/2003	FMETL	0.855	6.26								V, Pb
07/22/2003	FMETL	ND	7.19								V, Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 07/22/2003

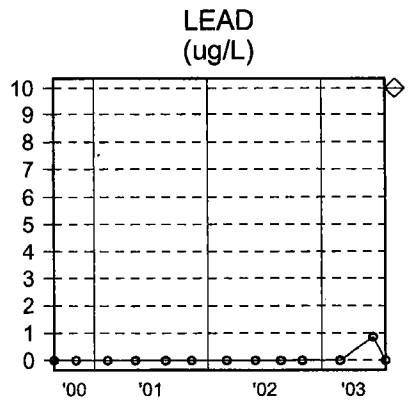
NOTES:

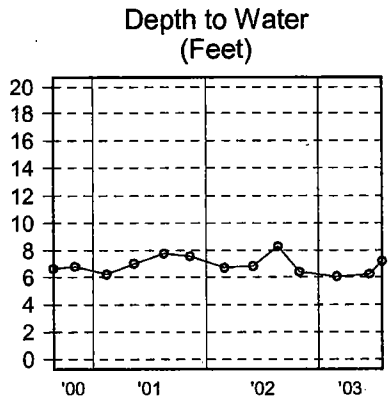
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 07/22/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-4359 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567 #27

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3063404	2567MW01	29-26925	10/07/03
3063405	2567MW02	29-26926	10/07/03
3063406	2567MW03	29-26947	10/07/03
3063407	2567MW04	29-26948	10/07/03
3063408	2567MW05	29-31783	10/07/03
3063409	2567MW06	29-42585	10/07/03
3063410	2567MW07	29-42586	10/07/03

NJDEP Laboratory Certification # 13461

11-12-03

Daniel Wright/Date:
Laboratory Director

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

SAMPLING

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J Fallon
Phone #: X26223
(✓)DERA ( )OMA ( )Other:_____
Project No:
Location: 2567 wells 4th Qtr '03
Samplers Name / Company: Corey McCormack, TUS

LIMS/Work Order #		Sample Location	Date	Time	Sample Type	# bottles	VOC + 15	Pb TPH MTBE						Hnu Read	Remarks / Preservation Method
30034	01	Trip	10/7/03	0750	AQ	2	✓							—	
	02	Field Blank		0850		3	✓	✓						—	
	03	Dupe		—		3	✓	✓						—	
	04	2567 MW01		1021		3	✓	✓						0.0	29-26925
	05	2567 MW02		1005			✓	✓						0.0	29-26926
	06	2567 MW03		~~1015~~ 1148			✓	✓						8.0	29-26927
	07	2567 MW04 *		1015			✓	✓						0.0	29-26928
	08	2567 MW05		1414			✓	✓						0.0	29-31783
	09	2567 MW06		1146			✓	✓						0.0	29-42585
	10	2567 MW07		1156			✓	✓						0.0	29-42586

Comments: HCL/HNO3/4°C

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormack	10/7/03 1425	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (✓)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (✓)Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks: Tide: N/A

print legibly

COC.XLS8/1/2003

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/07/03
WEATHER: Sunny and cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 4.23 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.87 ft
(8.87) X .65 X 3 = 17.29
GALLONS OF H_2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:05
pH 6.20 su
DISSOLVED O_2 2.97 mg/L
TEMP 17.76 °C
SPECIFIC CONDUCTIVITY 763.1 µs/cm

PURGE END TIME: 10:19
pH 6.27 su
DISSOLVED O_2 1.76 mg/L
TEMP 17.51 °C
SPECIFIC CONDUCTIVITY 777.1 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 5.23 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 10:21
pH 6.26 su
DISSOLVED O_2 1.74 mg/L
TEMP 17.50 °C
SPECIFIC CONDUCTIVITY 778.4 µs/cm

SAMPLE END TIME: 10:24

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/07/03
WEATHER: Sunny and cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.89 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.31 ft
(8.31) X .65 X 3 = 16.20
GALLONS OF H_2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:55
pH 6.21 su — TEMP 17.91 °C
DISSOLVED O_2 2.87 mg/L — SPECIFIC CONDUCTIVITY 279.1 µs/cm

PURGE END TIME: 10:04
pH 6.17 su — TEMP 17.31 °C
DISSOLVED O_2 1.21 mg/L — SPECIFIC CONDUCTIVITY 324.1 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.60 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 10:05
pH 6.17 su — TEMP 17.30 °C
DISSOLVED O_2 1.11 mg/L — SPECIFIC CONDUCTIVITY 325.2 µs/cm

SAMPLE END TIME: 10:08

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/07/03
WEATHER: Sunny and cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.52 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.98 ft
(8.98) X .65 X 3 = 17.51
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.02 ppm

PURGE START TIME: 10:29
pH 6.00 su — TEMP 17.63 °C
DISSOLVED O_2 3.11 mg/L — SPECIFIC CONDUCTIVITY 617.4 µs/cm

PURGE END TIME: 11:47
pH 5.93 su — TEMP 17.40 °C
DISSOLVED O_2 1.97 mg/L — SPECIFIC CONDUCTIVITY 637.5 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.96 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 11:48
pH 5.94 su — TEMP 17.39 °C
DISSOLVED O_2 1.96 mg/L — SPECIFIC CONDUCTIVITY 638.6 µs/cm

SAMPLE END TIME: 11:51

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/07/03
WEATHER: Sunny and cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.75 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.91 ft
(8.91) X .65 X 3 = 17.37
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:00
pH 6.30 su — TEMP 17.27 °C
DISSOLVED O_2 3.15 mg/L — SPECIFIC CONDUCTIVITY 327.8 µs/cm

PURGE END TIME: 10:14
pH 6.11 su — TEMP 17.01 °C
DISSOLVED O_2 1.99 mg/L — SPECIFIC CONDUCTIVITY 491.7 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.08 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 10:15
pH 6.11 su — TEMP 17.01 °C
DISSOLVED O_2 2.01 mg/L — SPECIFIC CONDUCTIVITY 492.0 µs/cm

SAMPLE END TIME: 10:18

COMMENTS: DUP. Here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/07/03
WEATHER: Sunny and cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.17 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.58 ft
(7.58) X .65 X 3 = 14.78
GALLONS OF H_2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 13:08
pH 6.23 su — TEMP 17.81 °C
DISSOLVED O_2 3.21 mg/L — SPECIFIC CONDUCTIVITY 263.1 µs/cm

PURGE END TIME: 14:13
pH 6.07 su — TEMP 17.21 °C
DISSOLVED O_2 2.01 mg/L — SPECIFIC CONDUCTIVITY 311.4 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 8.76 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 14:14
pH 6.08 su — TEMP 17.20 °C
DISSOLVED O_2 2.03 mg/L — SPECIFIC CONDUCTIVITY 312.3 µs/cm

SAMPLE END TIME: 14:16

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/07/03
WEATHER: Sunny and cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 7.31 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.43 ft
(8.43) X .65 X 3 = 16.43
GALLONS OF H_2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:36
pH 5.07 su — TEMP 16.89 °C
DISSOLVED O_2 3.76 mg/L — SPECIFIC CONDUCTIVITY 139.4 µs/cm

PURGE END TIME: 10:45
pH 4.81 su — TEMP 17.76 °C
DISSOLVED O_2 2.00 mg/L — SPECIFIC CONDUCTIVITY 191.7 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 9.03 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 11:46
pH 4.80 su — TEMP 17.77 °C
DISSOLVED O_2 2.10 mg/L — SPECIFIC CONDUCTIVITY 193.0 µs/cm

SAMPLE END TIME: 11:47

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/07/03
WEATHER: Sunny and cool.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.88 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.62 ft
(9.62) X .65 X 3 = 18.75
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:33
pH 5.44 su TEMP 16.91 °C
DISSOLVED O_2 3.70 mg/L SPECIFIC CONDUCTIVITY 210.1 µs/cm

PURGE END TIME: 11:55
pH 5.50 su TEMP 16.78 °C
DISSOLVED O_2 2.17 mg/L SPECIFIC CONDUCTIVITY 320.1 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 8.38 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 11:56
pH 5.49 su TEMP 16.75 °C
DISSOLVED O_2 2.17 mg/L SPECIFIC CONDUCTIVITY 319.8 µs/cm

SAMPLE END TIME: 11:58

COMMENTS:

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

U: The compound was analyzed for but not detected.

B: Indicates that the compound was found in the associated method blank as well as in the sample.

J: Indicates an estimated value. This flag is used:
(1) When the mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
(2) When estimating the concentration of a tentatively identified compound (TIC), where a 1:1 response is assumed.

D: This flag is used to identify all compounds (target or TIC) that required a dilution.

E: Indicates the compound's concentration exceeds the calibration range of the instrument for that specific analysis.

N: This flag is only used for TICs. It indicates the presumptive evidence of a compound. For a generic characterization of a TIC, such as unknown hydrocarbon, the flag is not used.

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB014582.D**	Sample Name	**MB 16Oct03**
Operator	**Skelton**	Field ID	**MB 16Oct03**
Date Acquired	**16 Oct 2003 4:20 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform	16.76	152257	2.79 ug/L	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MB 16Oct03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30634 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: MB 16Oct03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB014582.D

Level: (low/med) LOW Date Received: 10/7/2003

% Moisture: not dec. Date Analyzed: 10/16/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB014592.D**	Sample Name	**3063401**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**16 Oct 2003 10:50 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform	16.78	209282	4.60 ug/L	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30634 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3063401

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB014592.D

Level: (low/med) LOW Date Received: 10/7/2003

% Moisture: not dec. _____ Date Analyzed: 10/16/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB014593.D**	Sample Name	**3063402**
Operator	**Skelton**	Field ID	**Field Blank**
Date Acquired	**16 Oct 2003 11:29 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform	16.78	206085	4.43 ug/L	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

C:\HPCHEM\Custrpt\Volatile\624FY03.CRT

11/4/2003 1:48 PM

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30634 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3063402

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB014593.D

Level: (low/med) LOW Date Received: 10/7/2003

% Moisture: not dec. Date Analyzed: 10/16/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB014594.D**	Sample Name	**3063403**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**17 Oct 2003 12:08 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30634 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3063403

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB014594.D

Level: (low/med) LOW Date Received: 10/7/2003

% Moisture: not dec. _____ Date Analyzed: 10/17/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB014595.D**	Sample Name	**3063404**
Operator	**Skelton**	Field ID	**2567MW01**
Date Acquired	**17 Oct 2003 12:47 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol	13.28	553309	175.48 ug/L	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW01**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30634 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3063404

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB014595.D

Level: (low/med) LOW Date Received: 10/7/2003

% Moisture: not dec. Date Analyzed: 10/17/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB014596.D**	Sample Name	**3063405**
Operator	**Skelton**	Field ID	**2567MW02**
Date Acquired	**17 Oct 2003 1:26 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW02**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30634 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3063405

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB014596.D

Level: (low/med) LOW Date Received: 10/7/2003

% Moisture: not dec. Date Analyzed: 10/17/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 3

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000095-63-6	Benzene, 1,2,4-trimethyl-	29.44	4	JN
2. 000496-11-7	Indane	30.59	8	JN
3. 000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	33.17	4	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB014597.D**	Sample Name	**3063406**
Operator	**Skelton**	Field ID	**2567MW03**
Date Acquired	**17 Oct 2003 2:05 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol	13.39	45749	13.51 ug/L	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	12.90	311107	4.56 ug/L	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes	26.10	64297	1.38 ug/L	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW03**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30634 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3063406

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB014597.D

Level: (low/med) LOW Date Received: 10/7/2003

% Moisture: not dec. Date Analyzed: 10/17/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	6.77	42	J
2.	unknown hydrocarbon	7.52	13	J
3.	unknown hydrocarbon	10.85	8	J
4.	unknown hydrocarbon	10.93	18	J
5. 000096-14-0	Pentane, 3-methyl-	11.82	13	JN
6.	unknown hydrocarbon	14.61	38	J
7. 000091-20-3	Naphthalene	24.99	6	JN
8. 000098-82-8	Benzene, (1-methylethyl)-	27.53	17	JN
9. 000103-65-1	Benzene, propyl-	28.32	16	JN
10. 000496-11-7	Indane	30.59	37	JN

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB014598.D**	Sample Name	**3063407**
Operator	**Skelton**	Field ID	**2567MW04**
Date Acquired	**17 Oct 2003 2:44 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW04**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30634 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3063407

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB014598.D

Level: (low/med) LOW Date Received: 10/7/2003

% Moisture: not dec. Date Analyzed: 10/17/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB014599.D**	Sample Name	**3063408**
Operator	**Skelton**	Field ID	**2567MW05**
Date Acquired	**17 Oct 2003 3:23 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW05**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30634 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3063408

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB014599.D

Level: (low/med) LOW Date Received: 10/7/2003

% Moisture: not dec. _____ Date Analyzed: 10/17/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB014600.D**	Sample Name	**3063409**
Operator	**Skelton**	Field ID	**2567MW06**
Date Acquired	**17 Oct 2003 4:02 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW06**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30634 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3063409

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB014600.D

Level: (low/med) LOW Date Received: 10/7/2003

% Moisture: not dec. Date Analyzed: 10/17/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB014601.D**	Sample Name	**3063410**
Operator	**Skelton**	Field ID	**2567MW07**
Date Acquired	**17 Oct 2003 4:41 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.62 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

C:\HPCHEM\Custrpt\Volatile\624FY03.CRT

11/4/2003 1:49 PM

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **2567MW07**

Lab Name: FMETL NJDEP#: 13461

Project: LTM Case No.: 30634 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 3063410

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB014601.D

Level: (low/med) LOW Date Received: 10/7/2003

% Moisture: not dec. _____ Date Analyzed: 10/17/2003

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 30634
Sample Received: 10/07/03
Analysis Start: 10/30/03
Analysis Completed: 10/30/03

Site: Ft. Monmouth
2567

Matrix: AQ

Method of Analysis: Std Methods 18th, Method 3120B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)*	RL (ug/L)	MDL (ug/L)
3063402	Field Blank	ND	10.0	5.00	0.800
3063403	Dupe	ND	10.0	5.00	0.800
3063404	2567MW01	ND	10.0	5.00	0.800
3063405	2567MW02	0.831	10.0	5.00	0.800
3063406	2567MW03	ND	10.0	5.00	0.800
3063407	2567MW04	ND	10.0	5.00	0.800
3063408	2567MW05	22.1	10.0	5.00	0.800
3063409	2567MW06	ND	10.0	5.00	0.800
3063410	2567MW07	ND	10.0	5.00	0.800
Blank	Method Blank	1.75	10.0	5.00	0.800

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable
*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6
RL = Reporting Limit. Note: The results reported between the MDL and RL are estimated.

LTM

	LAB	LEAD	TERT-BUTYL ALCOHOL	MTBE	Depth to Water						NOTES
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	10	NLE	70	-						-
12/10/1991	ENV PRO	4	4400	2200	-						-
10/26/1992	ENV PRO	ND	5400	1200	-						-
10/26/1992D	ENV PRO	ND	7000	1500	-						-
04/21/1993	21st CEN	70	470	890	-						-
04/28/1993	21st CEN	ND	ND	ND	-						BNA Only
02/03/1994	21st CEN	ND	28	650	-						-
03/31/1994	21st CEN	ND	22	10	-						-
06/14/1994	21st CEN	ND	120	88	-						-
09/15/1994	21st CEN	ND	600	56	-						-
05/25/1995	EMSL	ND	930	110	-						-
08/15/1995	EMSL	3.3	930	29	-						-
11/21/1995	EMSL	ND	860	80	-						-
02/20/1996	EMSL	4	780	100	-						-
06/13/1996	FMETL	1.2	ND	ND	-						-
09/27/1996	FMETL	ND	ND	ND	-						-
04/11/1997	FMETL	2.5	ND	ND	3.80						V,Pb
08/28/1997	FMETL	1.4	ND	240	4.80						V,Pb
12/02/1997	FMETL	7.0	357	20.3	3.90						V,S,P,M
03/04/1998	FMETL	ND	560	37	3.51						V,S,P,M
06/01/1998	FMETL	0.5	95.63	24.23	4.06						V,Pb
09/24/1998	FMETL	ND	283	10.02	5.21						V,Pb
12/09/1998	FMETL	ND	143.26	3.43	4.90						V,Pb
02/24/1999	FMETL	ND	675	26.15	3.75						V,Pb
05/29/1999	FMETL	ND	605.1	9.16	4.20						V,Pb
07/21/1999	FMETL	ND	155.56	3.33	5.48						V,Pb
10/21/1999	FMETL	1.3	497.3	4.8	4.03						V,Pb
02/14/2000	FMETL	1.31	992	8.2	3.31						V,Pb
05/15/2000	FMETL	ND	458.88	5.24	4.04						V,Pb
08/22/2000	FMETL	ND	218.42	1.20	3.87						V,Pb
11/01/2000	FMETL	ND	ND	15.04	4.24						V,Pb
11/01/2000D	FMETL	ND	ND	15.33	4.24						V,Pb
02/09/2001	FMETL	ND	1488.05	4.83	3.30						V,Pb
05/08/2001	FMETL	0.93	764.25	2.10	4.15						V, Pb
08/15/2001	FMETL	ND	248.74	ND	4.95						V, Pb
08/15/2001D	FMETL	ND	457.64	1.54	4.95						V, Pb
11/09/2001	FMETL	ND	ND	1.09	5.11						V, Pb
02/26/2002	FMETL	ND	859.38	1.61	3.95						V, Pb
05/28/2002	FMETL	ND	331.75	ND	4.09						V, Pb
08/20/2002	FMETL	ND	441.16	ND	5.45						V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 10/07/2003

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	TERT-BUTYL ALCOHOL	MTBE	Depth to Water						NOTES
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	10	NLE	70	-						-
10/29/2002	FMETL	1.22	259.69	ND	3.62						V, Pb
02/26/2003	FMETL	1.40	828.6	2.05	3.11						V, Pb
06/11/2003	FMETL	ND	186.42	1.78	3.35						V, Pb
07/22/2003	FMETL	ND	205.86	1.93	4.39						V, Pb
10/07/2003	FMETL	ND	175.48	ND	4.23						V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 10/07/2003

NOTES:

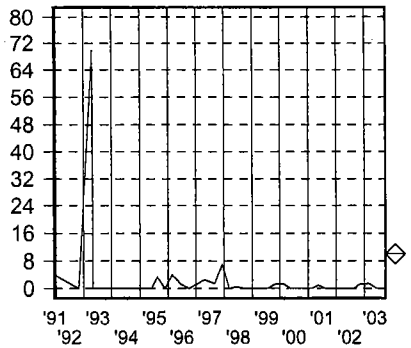
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

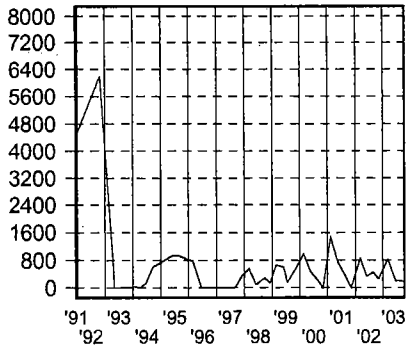
Source 1 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

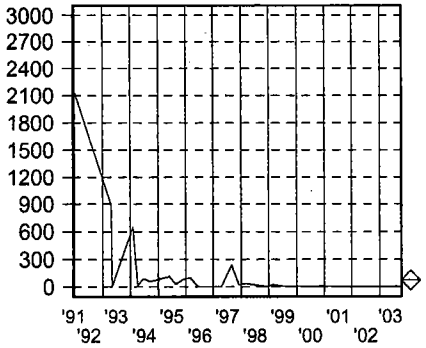
LEAD
(ug/L)



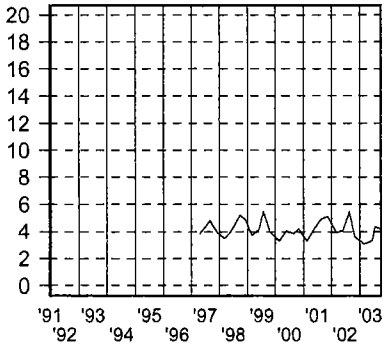
TERT-BUTYL ALCOHOL
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 10/07/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
12/10/1991	ENV PRO	ND	-								-
10/26/1992	ENV PRO	11	-								-
04/21/1993	ENV PRO	ND	-								-
04/28/1993	21st CEN	ND	-								BNA Only
02/03/1994	21st CEN	260	-								-
03/31/1994	21st CEN	ND	-								-
06/14/1994	21st CEN	ND	-								-
09/15/1994	21st CEN	ND	-								-
05/25/1995	EMSL	ND	-								-
08/15/1995	EMSL	5.6	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
06/13/1996	FMETL	ND	-								-
09/27/1996	FMETL	1.2	-								-
04/11/1997	FMETL	10.7	3.40								V,Pb
08/28/1997	FMETL	ND	4.30								V,Pb
12/02/1997	FMETL	20	3.45								V,S,P,M
03/04/1998	FMETL	8.0	2.92								V,S,P,M
06/01/1998	FMETL	1.4	3.59								V,Pb
09/24/1998	FMETL	ND	4.73								V,Pb
12/09/1998	FMETL	ND	3.42								V,Pb
02/24/1999	FMETL	ND	3.38								V,Pb
05/29/1999	FMETL	ND	3.83								V,Pb
07/21/1999	FMETL	ND	5.03								V,Pb
10/21/1999	FMETL	1.2	3.65								V,Pb
02/14/2000	FMETL	1.49	3.00								V,Pb
05/15/2000	FMETL	ND	3.77								V,Pb
08/22/2000	FMETL	ND	3.51								V,Pb
11/01/2000	FMETL	ND	4.15								V,Pb
02/09/2001	FMETL	ND	2.75								V,Pb
05/08/2001	FMETL	1.02	3.95								V, Pb
08/15/2001	FMETL	ND	4.65								V, Pb
11/09/2001	FMETL	ND	4.81								V, Pb
11/09/2001D	FMETL	ND	4.81								V, Pb
02/26/2002	FMETL	ND	3.86								V, Pb
05/28/2002	FMETL	ND	3.83								V,Pb
08/20/2002	FMETL	ND	5.13								V, Pb
10/29/2002	FMETL	2.47	3.32								V, Pb
02/26/2003	FMETL	ND	2.71								V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 10/07/2003

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
06/11/2003	FMETL	ND	3.00								V, Pb
07/22/2003	FMETL	5.20	3.91								V, Pb
10/07/2003	FMETL	0.831	3.89								V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 10/07/2003

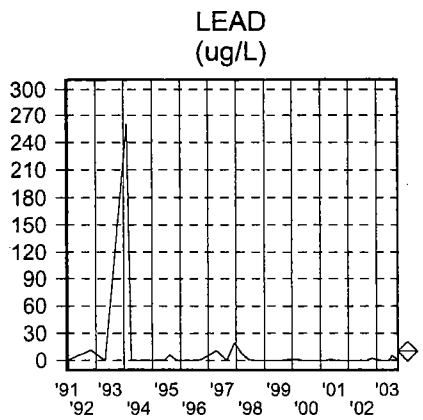
NOTES:

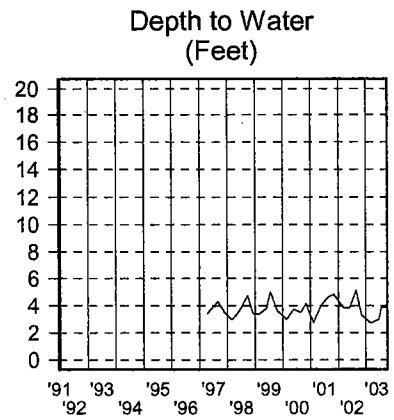
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 10/07/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
12/10/1991	ENV PRO	ND	110	200	ND	69	-				-
10/26/1992	ENV PRO	5	ND	3	ND	ND	-				-
04/21/1993	ENV PRO	60	180	74.2	ND	27	-				-
04/28/1993	21st CEN	ND	ND	ND	ND	ND	-				BNA Only
02/03/1994	21st CEN	41	19	65	ND	9.1	-				-
03/31/1994	21st CEN	25	ND	ND	ND	ND	-				-
06/14/1994	21st CEN	3	15	3.4	ND	100	-				-
09/15/1994	21st CEN	ND	ND	1.4	ND	61	-				-
05/25/1995	EMSL	2.7	94	190	ND	400	-				-
08/15/1995	EMSL	ND	89	360	ND	670	-				-
11/21/1995	EMSL	ND	35	91	46	360	-				-
02/20/1996	EMSL	6	40	70	43	250	-				-
06/13/1996	FMETL	0.7	ND	ND	ND	ND	-				-
09/27/1996	FMETL	6.2	ND	ND	ND	ND	-				-
04/11/1997	FMETL	1.8	ND	ND	ND	ND	3.15				V,Pb
08/28/1997	FMETL	ND	ND	ND	940	62	4.00				V,Pb
12/02/1997	FMETL	10	4.31	ND	ND	188	3.10				V,S,P,M
03/04/1998	FMETL	ND	19	8.6	ND	102	2.48				V,S,P,M
06/19/1998	FMETL	ND	4.68	ND	27.52	81.82	3.99				V,Pb
09/25/1998	FMETL	ND	5.96	3.62	ND	27.27	4.56				V,Pb
12/16/1998	FMETL	ND	15.45	3.67	19.38	20.54	4.25				V,Pb
02/24/1999	FMETL	1.0	1.03	ND	ND	3.3	3.16				V,Pb
05/29/1999	FMETL	ND	1.70	1.29	ND	26.34	3.55				V,Pb
07/21/1999	FMETL	ND	ND	ND	ND	8.98	4.85				V,Pb
10/21/1999	FMETL	1.3	ND	ND	ND	13.08	3.93				V,Pb
02/14/2000	FMETL	1.22	ND	ND	ND	3.78	3.42				V,Pb
05/15/2000	FMETL	ND	ND	ND	ND	9.35	3.40				V,Pb
08/22/2000	FMETL	ND	ND	ND	ND	5.36	3.17				V,Pb
11/01/2000	FMETL	ND	ND	ND	ND	20.24	3.56				V,Pb
02/09/2001	FMETL	ND	ND	ND	ND	1.96	2.50				V,Pb
05/08/2001	FMETL	0.96	ND	ND	ND	11.95	3.40				V, Pb
08/15/2001	FMETL	ND	ND	ND	67.42	17.8	4.30				V, Pb
11/09/2001	FMETL	ND	ND	ND	ND	5.51	4.30				V, Pb
02/26/2002	FMETL	ND	ND	ND	31.59	4.14	3.29				V, Pb
05/28/2002	FMETL	ND	ND	ND	ND	3.13	3.40				V,Pb
08/20/2002	FMETL	ND	ND	ND	ND	ND	4.03				V, Pb
10/29/2002	FMETL	ND	ND	ND	ND	2.37	2.98				V, Pb
02/26/2003	FMETL	ND	ND	ND	ND	3.64	2.39				V, Pb
06/11/2003	FMETL	ND	ND	ND	ND	ND	2.55				V, Pb

11-10-2003 X:\MtechData\2567\2567.WSF

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 10/07/2003

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	BENZENE	XYLENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water				NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	ug/L	Feet				-
NJDEP Criteria:	-	10	1	NLE	NLE	70	-				-
07/22/2003	FMETL	0.983	ND	ND	ND	6.82	3.81				V, Pb
10/07/2003	FMETL	ND	ND	1.38	13.51	4.56	3.52				V, Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 10/07/2003

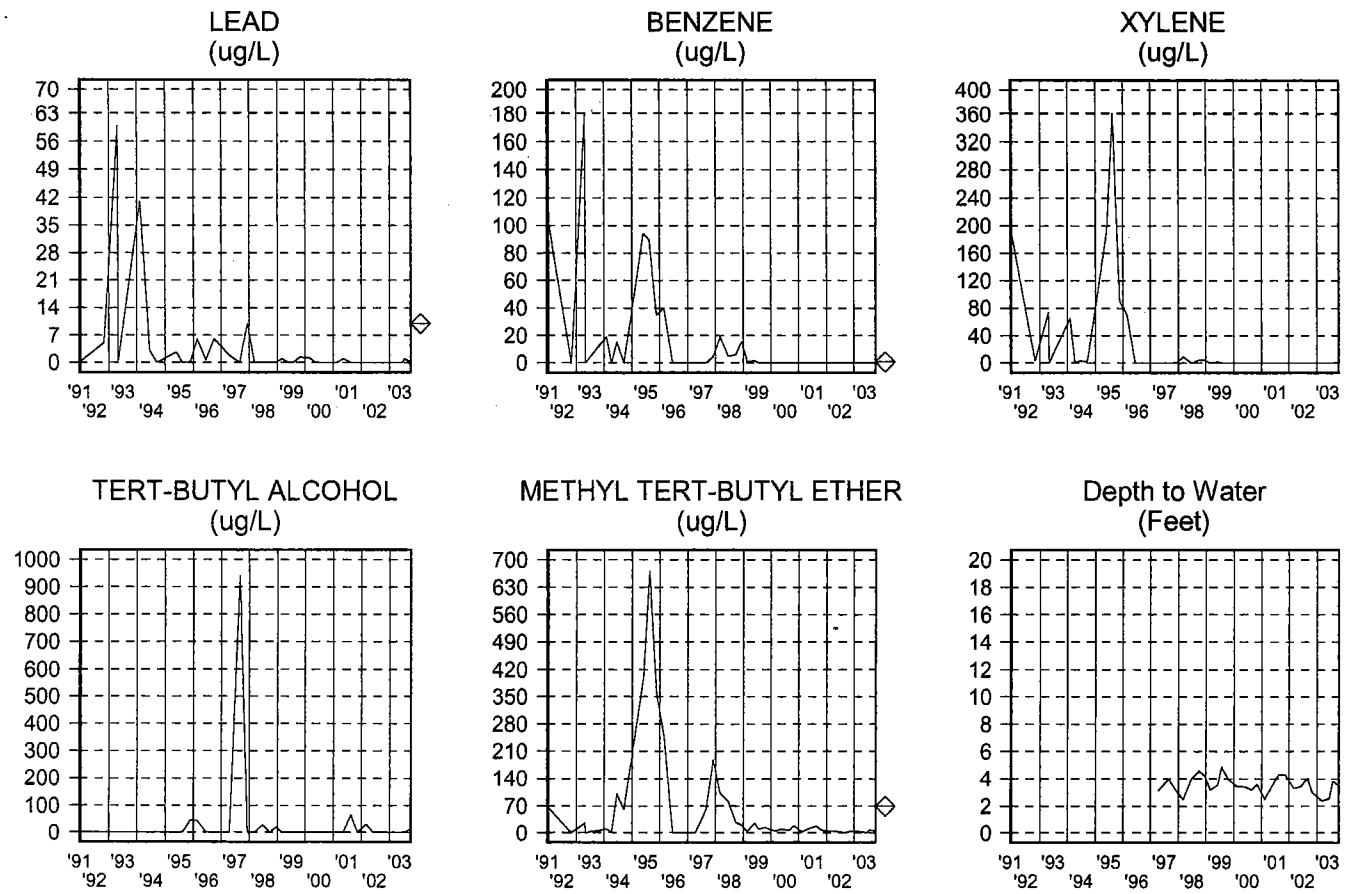
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 10/07/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
12/10/1991	EMSL	5	-								-
10/26/1992	ENV PRO	ND	-								-
04/21/1993	ENV PRO	ND	-								-
04/28/1993	21st CEN	ND	-								BNA Only
02/03/1994	21st CEN	ND	-								-
03/31/1994	21st CEN	ND	-								-
06/14/1994	21st CEN	ND	-								-
09/15/1994	21st CEN	ND	-								-
05/25/1995	EMSL	ND	-								-
08/15/1995	EMSL	2.6	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
06/13/1996	FMETL	1.8	-								-
09/27/1996	FMETL	ND	-								-
04/11/1997	FMETL	2.3	2.55								V,Pb
08/28/1997	FMETL	ND	3.20								V,Pb
12/02/1997	FMETL	9.0	2.45								V,S,P,M
03/04/1998	FMETL	ND	2.11								V,S,P,M
06/19/1998	FMETL	ND	2.33								V,Pb
09/24/1998	FMETL	ND	3.55								V,Pb
12/12/1998	FMETL	ND	3.11								V,Pb
02/24/1999	FMETL	ND	2.44								V,Pb
05/29/1999	FMETL	ND	2.76								V,Pb
07/21/1999	FMETL	ND	3.98								V,Pb
10/21/1999	FMETL	1.2	2.37								V,Pb
02/14/2000	FMETL	1.4	1.69								V,Pb
05/15/2000	FMETL	ND	2.65								V,Pb
05/15/2000D	FMETL	ND	2.65								V,Pb
08/22/2000	FMETL	ND	2.49								V,Pb
08/22/2000D	FMETL	ND	2.49								V,Pb
11/01/2000	FMETL	ND	2.91								V,Pb
02/09/2001	FMETL	ND	1.99								V,Pb
02/09/2001D	FMETL	ND	1.99								V,Pb
05/08/2001	FMETL	ND	2.68								V, Pb
05/08/2001D	FMETL	1.26	2.68								V, Pb
08/15/2001	FMETL	2.2	3.50								V, Pb
11/09/2001	FMETL	ND	3.65								V, Pb
02/26/2002	FMETL	ND	2.71								V, Pb
05/28/2002	FMETL	ND	2.83								V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 10/07/2003

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/20/2002	FMETL	ND	3.96								V, Pb
10/29/2002	FMETL	ND	2.26								V, Pb
02/26/2003	FMETL	ND	1.84								V, Pb
06/11/2003	FMETL	2.26	2.15								V, Pb
07/22/2003	FMETL	1.22	2.62								V, Pb
10/07/2003	FMETL	ND	2.75								V, Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 10/07/2003

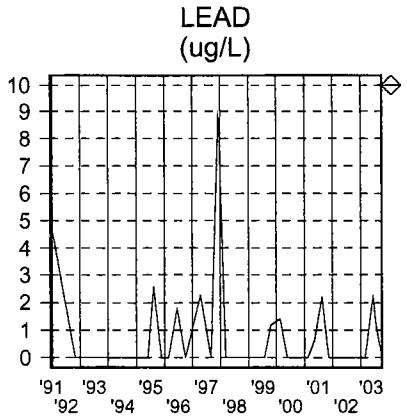
NOTES:

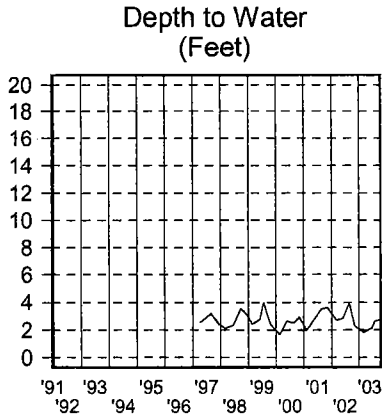
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 10/07/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
05/25/1995	EMSL	4.0	-								-
08/15/1995	EMSL	ND	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
09/27/1996	FMETL	ND	-								-
04/11/1997	FMETL	2.7	7.20								V,Pb
08/28/1997	FMETL	ND	7.50								V,Pb
12/02/1997	FMETL	7.0	7.20								V,S,P,M
03/04/1998	FMETL	ND	7.30								V,S,P,M
06/01/1998	FMETL	ND	7.55								V,Pb
09/25/1998	FMETL	ND	7.59								V,Pb
12/16/1998	FMETL	ND	7.34								V,Pb
02/24/1999	FMETL	ND	8.16								V,Pb
06/08/1999	FMETL	ND	7.33								V,Pb
07/21/1999	FMETL	ND	7.87								V,Pb
10/21/1999	FMETL	4.4	8.57								V,Pb
02/14/2000	FMETL	1.21	5.75								V,Pb
05/15/2000	FMETL	ND	6.92								V,Pb
08/22/2000	FMETL	1.6	6.73								V,Pb
11/01/2000	FMETL	2.4	7.16								V,Pb
02/09/2001	FMETL	ND	5.26								V,Pb
05/08/2001	FMETL	4.53	7.47								V, Pb
08/15/2001	FMETL	8.4	7.70								V, Pb
11/09/2001	FMETL	9.7	7.83								V, Pb
02/26/2002	FMETL	6.5	6.95								V, Pb
05/28/2002	FMETL	3.60	5.91								V,Pb
08/20/2002	FMETL	32.3	8.03								V, Pb
10/29/2002	FMETL	49.5	5.95								V, Pb
02/26/2003	FMETL	3.57	5.37								V, Pb
06/11/2003	FMETL	43.9	5.78								V, Pb
07/22/2003	FMETL	22.1	7.30								V, Pb
10/07/2003	FMETL	22.1	7.17								V, Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 10/07/2003

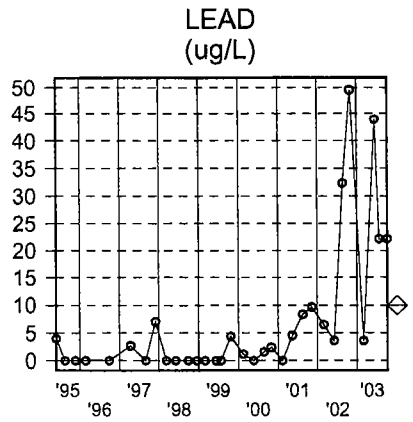
NOTES:

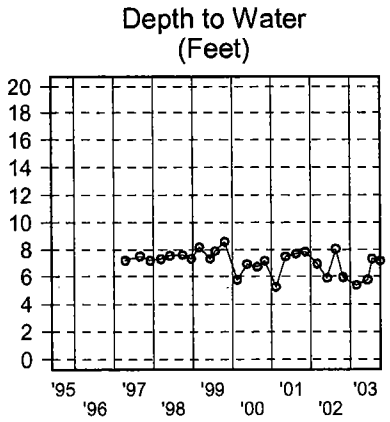
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 10/07/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/22/2000	FMETL	ND	7.06								V,Pb
11/01/2000	FMETL	ND	7.26								V,Pb
02/09/2001	FMETL	ND	6.44								V,Pb
05/08/2001	FMETL	1.48	7.42								V, Pb
08/15/2001	FMETL	ND	8.15								V, Pb
11/09/2001	FMETL	ND	8.09								V, Pb
02/26/2002	FMETL	ND	6.82								V, Pb
05/28/2002	FMETL	ND	7.29								V,Pb
08/20/2002	FMETL	1.32	8.78								V, Pb
10/29/2002	FMETL	ND	6.62								V, Pb
02/26/2003	FMETL	ND	6.24								V, Pb
06/11/2003	FMETL	ND	6.50								V, Pb
07/22/2003	FMETL	ND	7.61								V, Pb
10/07/2003	FMETL	ND	7.31								V, Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 10/07/2003

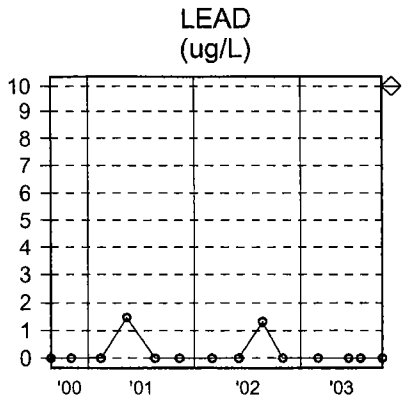
NOTES:

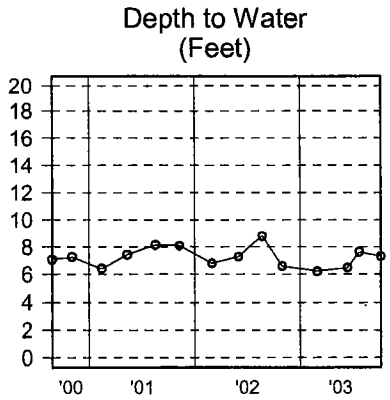
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 10/07/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

11-10-2003 X:\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/22/2000	FMETL	ND	6.65								V,Pb
11/02/2000	FMETL	ND	6.80								V,Pb
02/09/2001	FMETL	ND	6.23								V,Pb
05/08/2001	FMETL	ND	7.02								V, Pb
08/15/2001	FMETL	ND	7.75								V, Pb
11/09/2001	FMETL	ND	7.56								V, Pb
02/26/2002	FMETL	ND	6.71								V, Pb
05/28/2002	FMETL	ND	6.83								V,Pb
08/20/2002	FMETL	ND	8.28								V, Pb
10/29/2002	FMETL	ND	6.40								V, Pb
02/26/2003	FMETL	ND	6.07								V, Pb
06/11/2003	FMETL	0.855	6.26								V, Pb
07/22/2003	FMETL	ND	7.19								V, Pb
10/07/2003	FMETL	ND	6.88								V, Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 10/07/2003

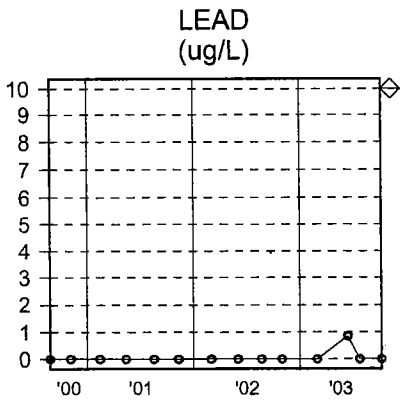
NOTES:

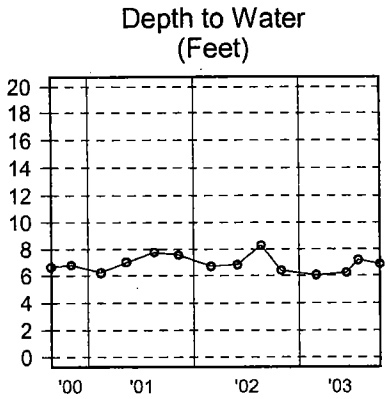
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 10/07/2003

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-4359 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT: DERA/UST
Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2567 #28

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4004304	2567MW01	29-26925	01/16/04
4004305	2567MW02	29-26926	01/16/04
4004306	2567MW03	29-26947	01/16/04
4004307	2567MW04	29-26948	01/16/04
4004308	2567MW05	29-31783	01/16/04
4004309	2567MW06	29-42585	01/16/04
4004310	2567MW07	29-42586	01/16/04

NJDEP Laboratory Certification # 13461

2-19-04
Daniel Wright/Date:
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J. FAILON
Phone #: X262223
( )DERA ( )OMA ( )Other:_____

Project No:
Location: 2567 wells
1st Qtr '04

Samplers Name / Company: Corey McCormach, TVS

Comments: HCL/HNO3/<4°C

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	VOC +15	Pb						Hardness	Remarks / Preservation Method
40043 01	Trip	1/16/04	0725	AQ	2	✓							—	
02	Field Blank		0900		3	✓	✓						—	
03	Dupe		—		3	✓	✓						—	
04	2567 mw01 *		1044		3	✓	✓						0.0	29-26925
05	2567 mw02		1048			✓	✓						0.0	29-26926
06	2567 mw03		1053			✓	✓						0.0	29-26927
07	2567 mw04		1058			✓	✓						0.0	29-26928
08	2567 mw05		1231			✓	✓						0.0	29-31783
09	2567 mw06		1236			✓	✓						0.0	29-42585
10	2567 mw07		1248			✓	✓						0.0	29-42586

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Corey McCormach	1/16/04 1350	J. Wright			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ____ Days, ( )ASAP Verbal ____Hrs.

Remarks:
Tide: N/A

print legibly

COC.XLS12/12/2003

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW01
NJDEP ID #: 29-26925
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 01/16/04
WEATHER: Sunny and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.60 ft
DEPTH OF WELL: 13.10 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.50 ft
(9.50) X .65 X 3 = 18.52
GALLONS OF H_2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:21
pH 6.27 su — TEMP 12.31 °C
DISSOLVED O_2 3.17 mg/L — SPECIFIC CONDUCTIVITY 617.2 µs/cm

PURGE END TIME: 10:43
pH 6.31 su — TEMP 12.17 °C
DISSOLVED O_2 2.63 mg/L — SPECIFIC CONDUCTIVITY 687.1 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 4.83 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 10:44
pH 6.30 su — TEMP 12.16 °C
DISSOLVED O_2 2.61 mg/L — SPECIFIC CONDUCTIVITY 687.2 µs/cm

SAMPLE END TIME: 10:47

COMMENTS: DUP. Here.

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW02
NJDEP ID #: 29-26926
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 01/16/04
WEATHER: Sunny and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 3.42 ft
DEPTH OF WELL: 12.20 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 8.78 ft
(8.78) X .65 X 3 = 17.12
GALLONS OF H_2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:32
pH 6.26 su — TEMP 12.51 °C
DISSOLVED O_2 3.17 mg/L — SPECIFIC CONDUCTIVITY 211.8 µs/cm

PURGE END TIME: 10:46
pH 6.20 su — TEMP 12.20 °C
DISSOLVED O_2 2.24 mg/L — SPECIFIC CONDUCTIVITY 297.6 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 5.30 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 10:48
pH 6.20 su — TEMP 12.21 °C
DISSOLVED O_2 2.21 mg/L — SPECIFIC CONDUCTIVITY 298.3 µs/cm

SAMPLE END TIME: 10:51

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW03
NJDEP ID #: 29-26947
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 01/16/04
WEATHER: Sunny and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.95 ft
DEPTH OF WELL: 12.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.55 ft
(9.55) X .65 X 3 = 18.62
GALLONS OF H2O TO BE PURGED: 19 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.02 ppm

PURGE START TIME: 09:27
pH 6.10 su — TEMP 12.29 °C
DISSOLVED O_2 3.39 mg/L — SPECIFIC CONDUCTIVITY 576.4 µs/cm

PURGE END TIME: 10:49
pH 5.97 su — TEMP 12.07 °C
DISSOLVED O_2 2.10 mg/L — SPECIFIC CONDUCTIVITY 617.9 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.00 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 10:53
pH 5.97 su — TEMP 12.06 °C
DISSOLVED O_2 2.08 mg/L — SPECIFIC CONDUCTIVITY 618.3 µs/cm

SAMPLE END TIME: 10:56

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW04
NJDEP ID #: 29-26948
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 01/16/04
WEATHER: Sunny and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 2.37 ft
DEPTH OF WELL: 11.66 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.29 ft
(9.29) X .65 X 3 = 18.11
GALLONS OF H2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:39
pH 6.37 su — TEMP 12.31 °C
DISSOLVED O_2 3.27 mg/L — SPECIFIC CONDUCTIVITY 297.6 µs/cm

PURGE END TIME: 10:57
pH 6.21 su — TEMP 12.07 °C
DISSOLVED O_2 2.17 mg/L — SPECIFIC CONDUCTIVITY 366.5 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 3.04 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 10:58
pH 6.22 su — TEMP 12.08 °C
DISSOLVED O_2 2.17 mg/L — SPECIFIC CONDUCTIVITY 367.7 µs/cm

SAMPLE END TIME: 11:01

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW05
NJDEP ID #: 29-31783
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 01/16/04
WEATHER: Sunny and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.93 ft
DEPTH OF WELL: 14.75 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 7.82 ft
(7.82) X .65 X 3 = 15.24
GALLONS OF H_2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:25
pH 6.37 su
TEMP 12.51 °C
DISSOLVED O_2 3.37 mg/L
SPECIFIC CONDUCTIVITY 227.1 µs/cm

PURGE END TIME: 12:30
pH 6.11 su
TEMP 12.20 °C
DISSOLVED O_2 2.19 mg/L
SPECIFIC CONDUCTIVITY 291.7 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 7.97 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 12:31
pH 6.10 su
TEMP 12.19 °C
DISSOLVED O_2 2.17 mg/L
SPECIFIC CONDUCTIVITY 292.1 µs/cm

SAMPLE END TIME: 12:33

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW06
NJDEP ID #: 29-42585
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 01/16/04
WEATHER: Sunny and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.65 ft
DEPTH OF WELL: 15.74 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 9.09 ft
(9.09) X .65 X 3 = 17.72
GALLONS OF H_2O TO BE PURGED: 18 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:17
pH 5.20 su
TEMP 12.76 °C
DISSOLVED O_2 3.27 mg/L
SPECIFIC CONDUCTIVITY 121.7 µs/cm

PURGE END TIME: 12:35
pH 5.11 su
TEMP 12.11 °C
DISSOLVED O_2 2.11 mg/L
SPECIFIC CONDUCTIVITY 141.8 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 8.41 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 12:36
pH 5.10 su
TEMP 12.10 °C
DISSOLVED O_2 2.09 mg/L
SPECIFIC CONDUCTIVITY 140.7 µs/cm

SAMPLE END TIME: 12:38

COMMENTS:

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATA

LOCATION: 2567
MW#: 2567MW07
NJDEP ID #: 29-42586
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 01/16/04
WEATHER: Sunny and cold.
TIDE: N/A

LNAPLs: N
DNAPLs :N
ELEV. OF INNER CASING SURVEY MARK: N/Aft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 6.37 ft
DEPTH OF WELL: 16.50 ft
DEPTH TO TOP OF SCREEN: N/A ft
HEIGHT OF WATER: 10.13 ft
(10.13) X .65 X 3 = 19.75
GALLONS OF H2O TO BE PURGED: 20 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:22
pH 5.40 su TEMP 12.47 °C
DISSOLVED O_2 3.41 mg/L SPECIFIC CONDUCTIVITY 197.6 µs/cm

PURGE END TIME: 12:47
pH 5.49 su TEMP 12.11 °C
DISSOLVED O_2 2.27 mg/L SPECIFIC CONDUCTIVITY 213.7 µs/cm

DEPTH TO H_2O AFTER PURGE AND BEFORE SAMPLING: 9.54 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 20 gal

SAMPLE START TIME: 12:48
pH 5.49 su TEMP 12.11 °C
DISSOLVED O_2 2.23 mg/L SPECIFIC CONDUCTIVITY 212.4 µs/cm

SAMPLE END TIME: 12:51

COMMENTS:

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

U: The compound was analyzed for but not detected.

B: Indicates that the compound was found in the associated method blank as well as in the sample.

J: Indicates an estimated value. This flag is used:

(1) When the mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

(2) When estimating the concentration of a tentatively identified compound (TIC), where a 1:1 response is assumed.

D: This flag is used to identify all compounds (target or TIC) that required a dilution.

E: Indicates the compound's concentration exceeds the calibration range of the instrument for that specific analysis.

N: This flag is only used for TICs. It indicates the presumptive evidence of a compound. For a generic characterization of a TIC, such as unknown hydrocarbon, the flag is not used.

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC011022.D**	Sample Name	**MB 27Jan04**
Operator	**Skelton**	Field ID	**MB 27Jan04**
Date Aquired	**27-Jan-04**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

MB 27Jan04

Lab Name: FMETL NJDEP # 13461

Project: LTM Case No.: 40043 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: MB 27Jan04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC011022.D

Level: (low/med) LOW Date Received: 1/16/2004

% Moisture: not dec. Date Analyzed: 1/27/2004

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC011032.D**	Sample Name	**4004301**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Aquired	**27-Jan-04**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform	15.56	133468	0.76 ug/L	6	0.32 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Trip Blank

Lab Name: FMETL NJDEP # 13461

Project: LTM Case No.: 40043 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 4004301

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC011032.D

Level: (low/med) LOW Date Received: 1/16/2004

% Moisture: not dec. Date Analyzed: 1/27/2004

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC011033.D**	Sample Name	**4004302**
Operator	**Skelton**	Field ID	**Field Blank**
Date Aquired	**27-Jan-04**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform	15.58	107201	0.61 ug/L	6	0.32 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values
*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Field Blank

Lab Name: FMETL NJDEP # 13461

Project: LTM Case No.: 40043 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 4004302

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC011033.D

Level: (low/med) LOW Date Received: 1/16/2004

% Moisture: not dec. Date Analyzed: 1/27/2004

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC011034.D**	Sample Name	**4004303**
Operator	**Skelton**	Field ID	**Dupe**
Date Aquired	**28-Jan-04**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol	11.55	686850	213.56 ug/L	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	11.74	374478	2.03 ug/L	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone	9.63	93341	0.40 ug/L	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Dupe

Lab Name: FMETL NJDEP # 13461

Project: LTM Case No.: 40043 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 4004303

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC011034.D

Level: (low/med) LOW Date Received: 1/16/2004

% Moisture: not dec. Date Analyzed: 1/28/2004

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC011035.D**	Sample Name	**4004304**
Operator	**Skelton**	Field ID	**2567MW01**
Date Aquired	**28-Jan-04**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol	11.54	698285	224.08 ug/L	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	11.75	372356	2.08 ug/L	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

2567MW01

Lab Name: FMETL NJDEP # 13461

Project: LTM Case No.: 40043 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 4004304

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC011035.D

Level: (low/med) LOW Date Received: 1/16/2004

% Moisture: not dec. Date Analyzed: 1/28/2004

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC011036.D**	Sample Name	**4004305**
Operator	**Skelton**	Field ID	**2567MW02**
Date Aquired	**28-Jan-04**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

2567MW02

Lab Name: FMETL NJDEP # 13461

Project: LTM Case No.: 40043 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 4004305

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC011036.D

Level: (low/med) LOW Date Received: 1/16/2004

% Moisture: not dec. Date Analyzed: 1/28/2004

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC011037.D**	Sample Name	**4004306**
Operator	**Skelton**	Field ID	**2567MW03**
Date Aquired	**28-Jan-04**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values
*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

2567MW03

Lab Name: FMETL NJDEP # 13461

Project: LTM Case No.: 40043 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 4004306

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC011037.D

Level: (low/med) LOW Date Received: 1/16/2004

% Moisture: not dec. Date Analyzed: 1/28/2004

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC011038.D**	Sample Name	**4004307**
Operator	**Skelton**	Field ID	**2567MW04**
Date Aquired	**28-Jan-04**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

2567MW04

Lab Name: FMETL NJDEP # 13461

Project: LTM Case No.: 40043 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 4004307

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC011038.D

Level: (low/med) LOW Date Received: 1/16/2004

% Moisture: not dec. Date Analyzed: 1/28/2004

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC011039.D**	Sample Name	**4004308**
Operator	**Skelton**	Field ID	**2567MW05**
Date Aquired	**28-Jan-04**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

2567MW05

Lab Name: FMETL NJDEP # 13461

Project: LTM Case No.: 40043 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 4004308

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC011039.D

Level: (low/med) LOW Date Received: 1/16/2004

% Moisture: not dec. Date Analyzed: 1/28/2004

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC011040.D**	Sample Name	**4004309**
Operator	**Skelton**	Field ID	**2567MW06**
Date Aquired	**28-Jan-04**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

2567MW06

Lab Name: FMETL NJDEP # 13461

Project: LTM Case No.: 40043 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 4004309

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC011040.D

Level: (low/med) LOW Date Received: 1/16/2004

% Moisture: not dec. Date Analyzed: 1/28/2004

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification Number #13461

Data File	**VC011041.D**	Sample Name	**4004310**
Operator	**Skelton**	Field ID	**2567MW07**
Date Aquired	**28-Jan-04**	Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	2.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

2567MW07

Lab Name: FMETL NJDEP # 13461

Project: LTM Case No.: 40043 Location: 2567 SDG No.: Wells

Matrix: (soil/water) WATER Lab Sample ID: 4004310

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC011041.D

Level: (low/med) LOW Date Received: 1/16/2004

% Moisture: not dec. Date Analyzed: 1/28/2004

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

TAL
METALS

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 40043
Sample Received: 01/16/04
Analysis Start: 01/26/04
Analysis Completed: 01/26/04

Site: Ft. Monmouth
2567 Wells

Matrix: AQ

Method of Analysis: Std Methods 18th, Method 3120B
Method of Digestion: NA

TEST PARAMETER: Lead

Laboratory ID	Sample Location Identification	Result (ug/L)	GW Criteria (ug/L)*	RL (ug/L)
4004302	Field Blank	ND	10.0	5.00
4004303	Dupe	ND	10.0	5.00
4004304	2567MW01	ND	10.0	5.00
4004305	2567MW02	ND	10.0	5.00
4004306	2567MW03	ND	10.0	5.00
4004307	2567MW04	ND	10.0	5.00
4004308	2567MW05	ND	10.0	5.00
4004309	2567MW06	ND	10.0	5.00
4004310	2567MW07	ND	10.0	5.00
Blank	Method Blank	ND	10.0	5.00

ND = Not Detected, NA = Not Applicable
*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6
RL = Reporting Limit. Note.

LTM

	LAB	LEAD	TERT-BUTYL ALCOHOL	MTBE	Depth to Water						NOTES
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	10	NLE	70	-						-
12/10/1991	ENV PRO	4	4400	2200	-						-
10/26/1992	ENV PRO	ND	5400	1200	-						-
10/26/1992D	ENV PRO	ND	7000	1500	-						-
04/21/1993	21st CEN	70	470	890	-						-
04/28/1993	21st CEN	ND	ND	ND	-						BNA Only
02/03/1994	21st CEN	ND	28	650	-						-
03/31/1994	21st CEN	ND	22	10	-						-
06/14/1994	21st CEN	ND	120	88	-						-
09/15/1994	21st CEN	ND	600	56	-						-
05/25/1995	EMSL	ND	930	110	-						-
08/15/1995	EMSL	3.3	930	29	-						-
11/21/1995	EMSL	ND	860	80	-						-
02/20/1996	EMSL	4	780	100	-						-
06/13/1996	FMETL	1.2	ND	ND	-						-
09/27/1996	FMETL	ND	ND	ND	-						-
04/11/1997	FMETL	2.5	ND	ND	3.80						V,Pb
08/28/1997	FMETL	1.4	ND	240	4.80						V,Pb
12/02/1997	FMETL	7.0	357	20.3	3.90						V,S,P,M
03/04/1998	FMETL	ND	560	37	3.51						V,S,P,M
06/01/1998	FMETL	0.5	95.63	24.23	4.06						V,Pb
09/24/1998	FMETL	ND	283	10.02	5.21						V,Pb
12/09/1998	FMETL	ND	143.26	3.43	4.90						V,Pb
02/24/1999	FMETL	ND	675	26.15	3.75						V,Pb
05/29/1999	FMETL	ND	605.1	9.16	4.20						V,Pb
07/21/1999	FMETL	ND	155.56	3.33	5.48						V,Pb
10/21/1999	FMETL	1.3	497.3	4.8	4.03						V,Pb
02/14/2000	FMETL	1.31	992	8.2	3.31						V,Pb
05/15/2000	FMETL	ND	458.88	5.24	4.04						V,Pb
08/22/2000	FMETL	ND	218.42	1.20	3.87						V,Pb
11/01/2000	FMETL	ND	ND	15.04	4.24						V,Pb
11/01/2000D	FMETL	ND	ND	15.33	4.24						V,Pb
02/09/2001	FMETL	ND	1488.05	4.83	3.30						V,Pb
05/08/2001	FMETL	0.93	764.25	2.10	4.15						V, Pb
08/15/2001	FMETL	ND	248.74	ND	4.95						V, Pb
08/15/2001D	FMETL	ND	457.64	1.54	4.95						V, Pb
11/09/2001	FMETL	ND	ND	1.09	5.11						V, Pb
02/26/2002	FMETL	ND	859.38	1.61	3.95						V, Pb
05/28/2002	FMETL	ND	331.75	ND	4.09						V, Pb
08/20/2002	FMETL	ND	441.16	ND	5.45						V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 01/16/2004

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	TERT-BUTYL ALCOHOL	MTBE	Depth to Water						NOTES
Units:	-	ug/L	ug/L	ug/L	Feet						-
NJDEP Criteria:	-	10	NLE	70	-						-
10/29/2002	FMETL	1.22	259.69	ND	3.62						V, Pb
02/26/2003	FMETL	1.40	828.6	2.05	3.11						V, Pb
06/11/2003	FMETL	ND	186.42	1.78	3.35						V, Pb
07/22/2003	FMETL	ND	205.86	1.93	4.39						V, Pb
10/07/2003	FMETL	ND	175.48	ND	4.23						V, Pb
01/16/2004	FMETL	ND	224.08	2.08	3.60						V, Pb

SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 01/16/2004

NOTES:

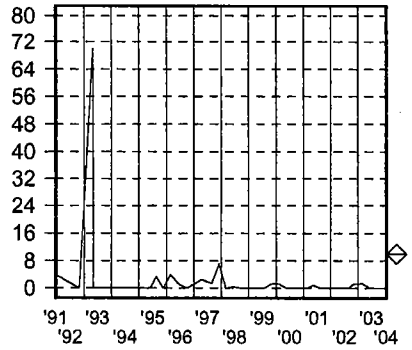
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

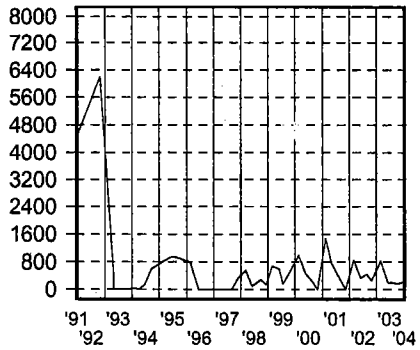
Source 1 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

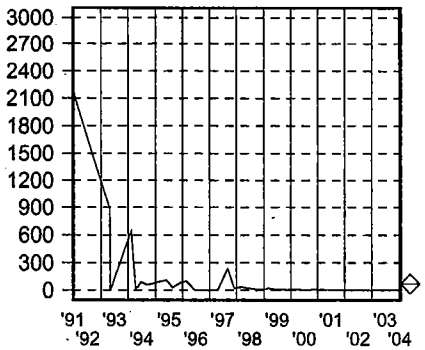
LEAD
(ug/L)



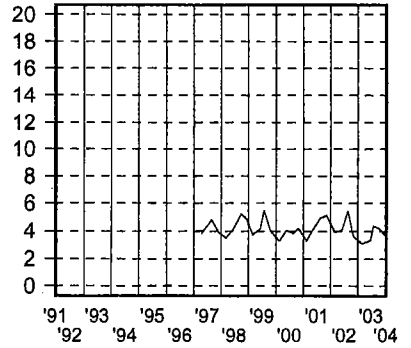
TERT-BUTYL ALCOHOL
(ug/L)



METHYL TERT-BUTYL ETHER
(ug/L)



Depth to Water
(Feet)



SOURCE: 2567MW01

Sampling Dates:
12/10/1991 - 01/16/2004

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 1 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

02-19-2004 \\Gar045\ENVR_Data\MtechData\2567\2567.WSF

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
12/10/1991	ENV PRO	ND	-								-
10/26/1992	ENV PRO	11	-								-
04/21/1993	ENV PRO	ND	-								-
04/28/1993	21st CEN	ND	-								BNA Only
02/03/1994	21st CEN	260	-								-
03/31/1994	21st CEN	ND	-								-
06/14/1994	21st CEN	ND	-								-
09/15/1994	21st CEN	ND	-								-
05/25/1995	EMSL	ND	-								-
08/15/1995	EMSL	5.6	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
06/13/1996	FMETL	ND	-								-
09/27/1996	FMETL	1.2	-								-
04/11/1997	FMETL	10.7	3.40								V,Pb
08/28/1997	FMETL	ND	4.30								V,Pb
12/02/1997	FMETL	20	3.45								V,S,P,M
03/04/1998	FMETL	8.0	2.92								V,S,P,M
06/01/1998	FMETL	1.4	3.59								V,Pb
09/24/1998	FMETL	ND	4.73								V,Pb
12/09/1998	FMETL	ND	3.42								V,Pb
02/24/1999	FMETL	ND	3.38								V,Pb
05/29/1999	FMETL	ND	3.83								V,Pb
07/21/1999	FMETL	ND	5.03								V,Pb
10/21/1999	FMETL	1.2	3.65								V,Pb
02/14/2000	FMETL	1.49	3.00								V,Pb
05/15/2000	FMETL	ND	3.77								V,Pb
08/22/2000	FMETL	ND	3.51								V,Pb
11/01/2000	FMETL	ND	4.15								V,Pb
02/09/2001	FMETL	ND	2.75								V,Pb
05/08/2001	FMETL	1.02	3.95								V, Pb
08/15/2001	FMETL	ND	4.65								V, Pb
11/09/2001	FMETL	ND	4.81								V, Pb
11/09/2001D	FMETL	ND	4.81								V, Pb
02/26/2002	FMETL	ND	3.86								V, Pb
05/28/2002	FMETL	ND	3.83								V,Pb
08/20/2002	FMETL	ND	5.13								V, Pb
10/29/2002	FMETL	2.47	3.32								V, Pb
02/26/2003	FMETL	ND	2.71								V, Pb

02-19-2004 \\Gar045\ENVR_Data\MtechData\2567\2567.WSF

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 01/16/2004

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
06/11/2003	FMETL	ND	3.00								V, Pb
07/22/2003	FMETL	5.20	3.91								V, Pb
10/07/2003	FMETL	0.831	3.89								V, Pb
01/16/2004	FMETL	ND	3.42								V, Pb

SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 01/16/2004

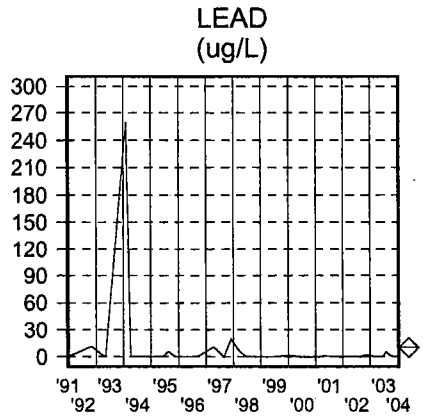
NOTES:

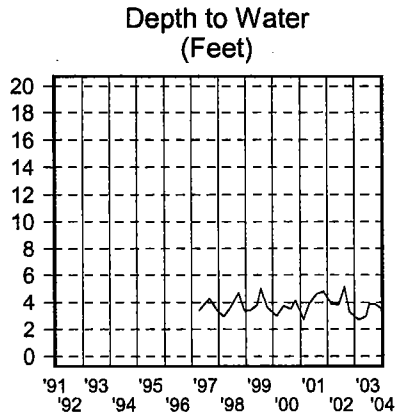
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW02

Sampling Dates:
12/10/1991 - 01/16/2004

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 2 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	BENZENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water					NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	Feet					-
NJDEP Criteria:	-	10	1	NLE	70	-					-
12/10/1991	ENV PRO	ND	110	ND	69	-					-
10/26/1992	ENV PRO	5	ND	ND	ND	-					-
04/21/1993	ENV PRO	60	180	ND	27	-					-
04/28/1993	21st CEN	ND	ND	ND	ND	-					BNA Only
02/03/1994	21st CEN	41	19	ND	9.1	-					-
03/31/1994	21st CEN	25	ND	ND	ND	-					-
06/14/1994	21st CEN	3	15	ND	100	-					-
09/15/1994	21st CEN	ND	ND	ND	61	-					-
05/25/1995	EMSL	2.7	94	ND	400	-					-
08/15/1995	EMSL	ND	89	ND	670	-					-
11/21/1995	EMSL	ND	35	46	360	-					-
02/20/1996	EMSL	6	40	43	250	-					-
06/13/1996	FMETL	0.7	ND	ND	ND	-					-
09/27/1996	FMETL	6.2	ND	ND	ND	-					-
04/11/1997	FMETL	1.8	ND	ND	ND	3.15					V,Pb
08/28/1997	FMETL	ND	ND	940	62	4.00					V,Pb
12/02/1997	FMETL	10	4.31	ND	188	3.10					V,S,P,M
03/04/1998	FMETL	ND	19	ND	102	2.48					V,S,P,M
06/19/1998	FMETL	ND	4.68	27.52	81.82	3.99					V,Pb
09/25/1998	FMETL	ND	5.96	ND	27.27	4.56					V,Pb
12/16/1998	FMETL	ND	15.45	19.38	20.54	4.25					V,Pb
02/24/1999	FMETL	1.0	1.03	ND	3.3	3.16					V,Pb
05/29/1999	FMETL	ND	1.70	ND	26.34	3.55					V,Pb
07/21/1999	FMETL	ND	ND	ND	8.98	4.85					V,Pb
10/21/1999	FMETL	1.3	ND	ND	13.08	3.93					V,Pb
02/14/2000	FMETL	1.22	ND	ND	3.78	3.42					V,Pb
05/15/2000	FMETL	ND	ND	ND	9.35	3.40					V,Pb
08/22/2000	FMETL	ND	ND	ND	5.36	3.17					V,Pb
11/01/2000	FMETL	ND	ND	ND	20.24	3.56					V,Pb
02/09/2001	FMETL	ND	ND	ND	1.96	2.50					V,Pb
05/08/2001	FMETL	0.96	ND	ND	11.95	3.40					V, Pb
08/15/2001	FMETL	ND	ND	67.42	17.8	4.30					V, Pb
11/09/2001	FMETL	ND	ND	ND	5.51	4.30					V, Pb
02/26/2002	FMETL	ND	ND	31.59	4.14	3.29					V, Pb
05/28/2002	FMETL	ND	ND	ND	3.13	3.40					V,Pb
08/20/2002	FMETL	ND	ND	ND	ND	4.03					V, Pb
10/29/2002	FMETL	ND	ND	ND	2.37	2.98					V, Pb
02/26/2003	FMETL	ND	ND	ND	3.64	2.39					V, Pb
06/11/2003	FMETL	ND	ND	ND	ND	2.55					V, Pb

02-19-2004 \\Gar045\ENVR_Data\MtechData\2567\2567.WSF

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 01/16/2004

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	BENZENE	TERT-BUTYL ALCOHOL	MTBE	Depth to Water					NOTES
Units:	-	ug/L	ug/L	ug/L	ug/L	Feet					-
NJDEP Criteria:	-	10	1	NLE	70	-					-
07/22/2003	FMETL	0.983	ND	ND	6.82	3.81					V, Pb
10/07/2003	FMETL	ND	ND	13.51	4.56	3.52					V, Pb
01/16/2004	FMETL	ND	ND	ND	ND	2.95					V, Pb

SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 01/16/2004

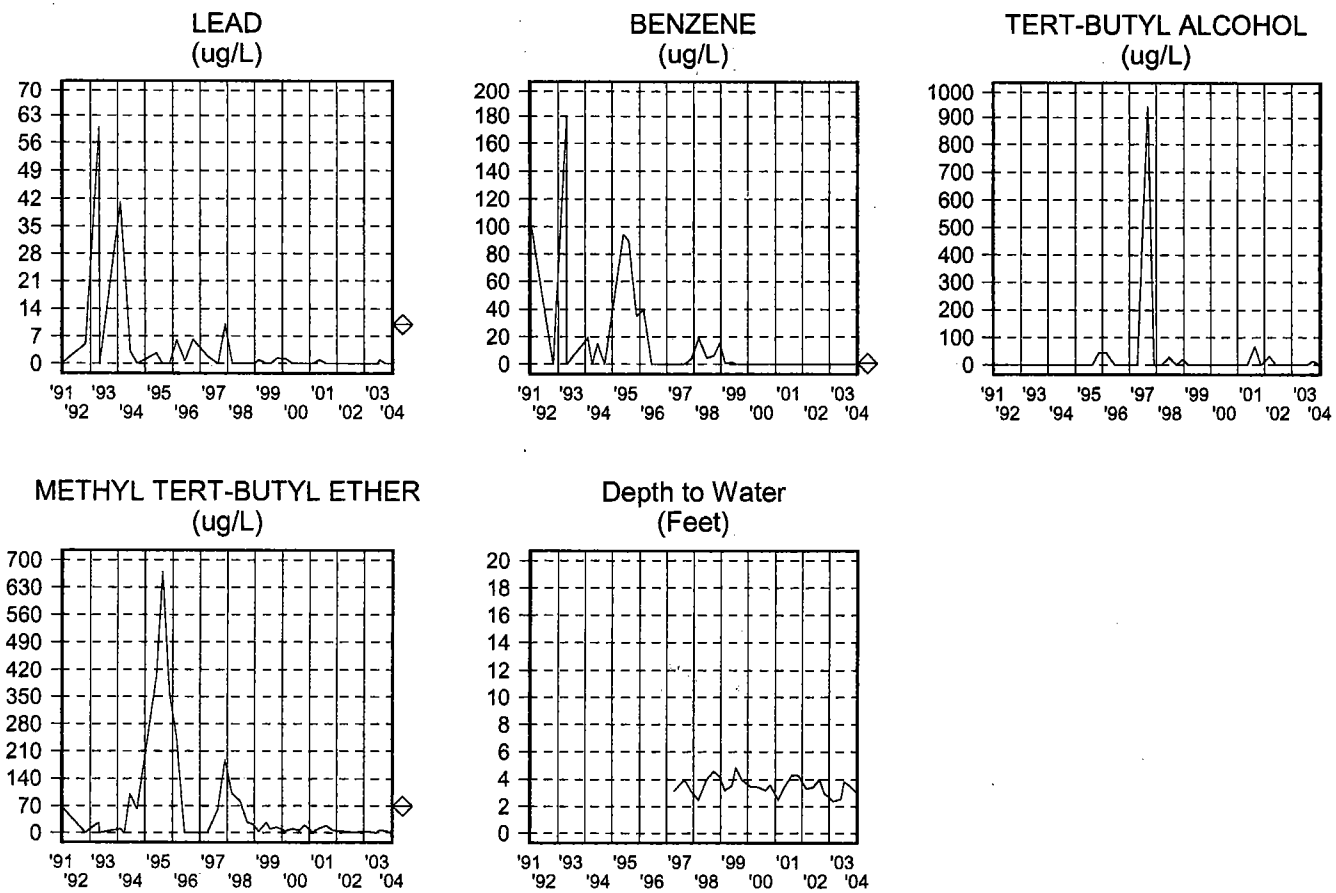
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW03

Sampling Dates:
12/10/1991 - 01/16/2004

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 3 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
12/10/1991	EMSL	5	-								-
10/26/1992	ENV PRO	ND	-								-
04/21/1993	ENV PRO	ND	-								-
04/28/1993	21st CEN	ND	-								BNA Only
02/03/1994	21st CEN	ND	-								-
03/31/1994	21st CEN	ND	-								-
06/14/1994	21st CEN	ND	-								-
09/15/1994	21st CEN	ND	-								-
05/25/1995	EMSL	ND	-								-
08/15/1995	EMSL	2.6	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
06/13/1996	FMETL	1.8	-								-
09/27/1996	FMETL	ND	-								-
04/11/1997	FMETL	2.3	2.55								V,Pb
08/28/1997	FMETL	ND	3.20								V,Pb
12/02/1997	FMETL	9.0	2.45								V,S,P,M
03/04/1998	FMETL	ND	2.11								V,S,P,M
06/19/1998	FMETL	ND	2.33								V,Pb
09/24/1998	FMETL	ND	3.55								V,Pb
12/12/1998	FMETL	ND	3.11								V,Pb
02/24/1999	FMETL	ND	2.44								V,Pb
05/29/1999	FMETL	ND	2.76								V,Pb
07/21/1999	FMETL	ND	3.98								V,Pb
10/21/1999	FMETL	1.2	2.37								V,Pb
02/14/2000	FMETL	1.4	1.69								V,Pb
05/15/2000	FMETL	ND	2.65								V,Pb
05/15/2000D	FMETL	ND	2.65								V,Pb
08/22/2000	FMETL	ND	2.49								V,Pb
08/22/2000D	FMETL	ND	2.49								V,Pb
11/01/2000	FMETL	ND	2.91								V,Pb
02/09/2001	FMETL	ND	1.99								V,Pb
02/09/2001D	FMETL	ND	1.99								V,Pb
05/08/2001	FMETL	ND	2.68								V, Pb
05/08/2001D	FMETL	1.26	2.68								V, Pb
08/15/2001	FMETL	2.2	3.50								V, Pb
11/09/2001	FMETL	ND	3.65								V, Pb
02/26/2002	FMETL	ND	2.71								V, Pb
05/28/2002	FMETL	ND	2.83								V,Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 01/16/2004

NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/20/2002	FMETL	ND	3.96								V, Pb
10/29/2002	FMETL	ND	2.26								V, Pb
02/26/2003	FMETL	ND	1.84								V, Pb
06/11/2003	FMETL	2.26	2.15								V, Pb
07/22/2003	FMETL	1.22	2.62								V, Pb
10/07/2003	FMETL	ND	2.75								V, Pb
01/16/2004	FMETL	ND	2.37								V, Pb

SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 01/16/2004

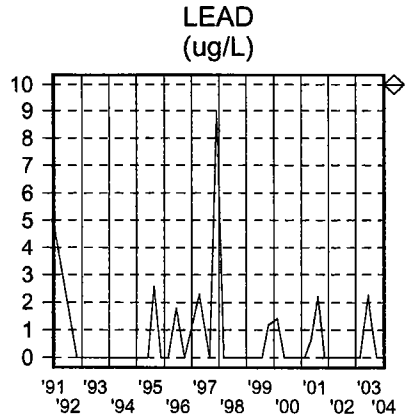
NOTES:

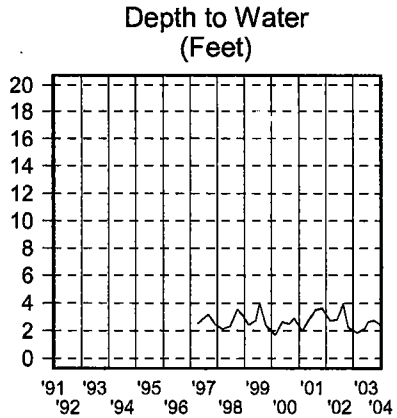
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7 (cont.)

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW04

Sampling Dates:
12/10/1991 - 01/16/2004

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 4 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
05/25/1995	EMSL	4.0	-								-
08/15/1995	EMSL	ND	-								-
11/21/1995	EMSL	ND	-								-
02/20/1996	EMSL	ND	-								-
09/27/1996	FMETL	ND	-								-
04/11/1997	FMETL	2.7	7.20								V,Pb
08/28/1997	FMETL	ND	7.50								V,Pb
12/02/1997	FMETL	7.0	7.20								V,S,P,M
03/04/1998	FMETL	ND	7.30								V,S,P,M
06/01/1998	FMETL	ND	7.55								V,Pb
09/25/1998	FMETL	ND	7.59								V,Pb
12/16/1998	FMETL	ND	7.34								V,Pb
02/24/1999	FMETL	ND	8.16								V,Pb
06/08/1999	FMETL	ND	7.33								V,Pb
07/21/1999	FMETL	ND	7.87								V,Pb
10/21/1999	FMETL	4.4	8.57								V,Pb
02/14/2000	FMETL	1.21	5.75								V,Pb
05/15/2000	FMETL	ND	6.92								V,Pb
08/22/2000	FMETL	1.6	6.73								V,Pb
11/01/2000	FMETL	2.4	7.16								V,Pb
02/09/2001	FMETL	ND	5.26								V,Pb
05/08/2001	FMETL	4.53	7.47								V, Pb
08/15/2001	FMETL	8.4	7.70								V, Pb
11/09/2001	FMETL	9.7	7.83								V, Pb
02/26/2002	FMETL	6.5	6.95								V, Pb
05/28/2002	FMETL	3.60	5.91								V,Pb
08/20/2002	FMETL	32.3	8.03								V, Pb
10/29/2002	FMETL	49.5	5.95								V, Pb
02/26/2003	FMETL	3.57	5.37								V, Pb
06/11/2003	FMETL	43.9	5.78								V, Pb
07/22/2003	FMETL	22.1	7.30								V, Pb
10/07/2003	FMETL	22.1	7.17								V, Pb
01/16/2004	FMETL	ND	6.93								V, Pb

SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 01/16/2004

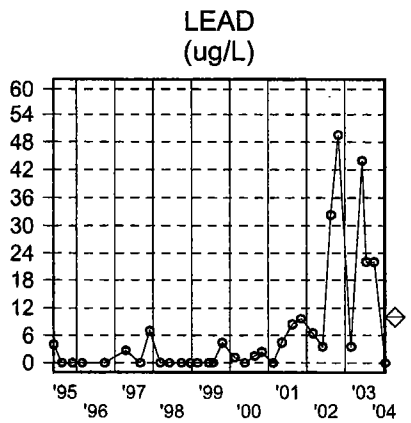
NOTES:

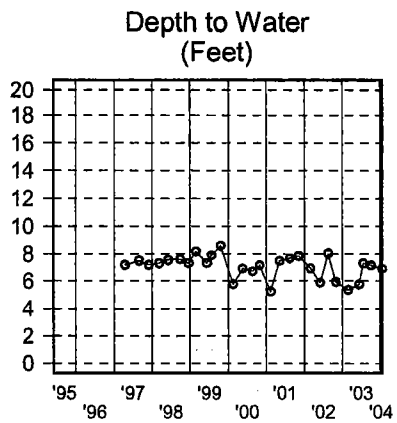
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW05

Sampling Dates:
05/25/1995 - 01/16/2004

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 5 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	LEAD	Depth to Water								NOTES
Units:	-	ug/L	Feet								-
NJDEP Criteria:	-	10	-								-
08/22/2000	FMETL	ND	7.06								V,Pb
11/01/2000	FMETL	ND	7.26								V,Pb
02/09/2001	FMETL	ND	6.44								V,Pb
05/08/2001	FMETL	1.48	7.42								V, Pb
08/15/2001	FMETL	ND	8.15								V, Pb
11/09/2001	FMETL	ND	8.09								V, Pb
02/26/2002	FMETL	ND	6.82								V, Pb
05/28/2002	FMETL	ND	7.29								V,Pb
08/20/2002	FMETL	1.32	8.78								V, Pb
10/29/2002	FMETL	ND	6.62								V, Pb
02/26/2003	FMETL	ND	6.24								V, Pb
06/11/2003	FMETL	ND	6.50								V, Pb
07/22/2003	FMETL	ND	7.61								V, Pb
10/07/2003	FMETL	ND	7.31								V, Pb
01/16/2004	FMETL	ND	6.65								V, Pb

SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 01/16/2004

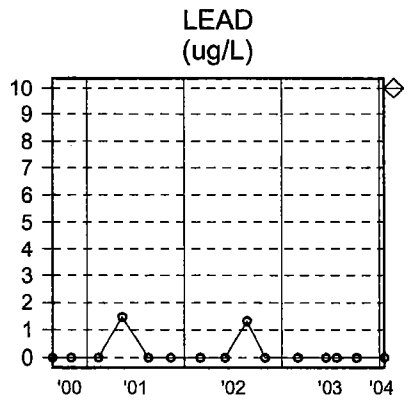
NOTES:

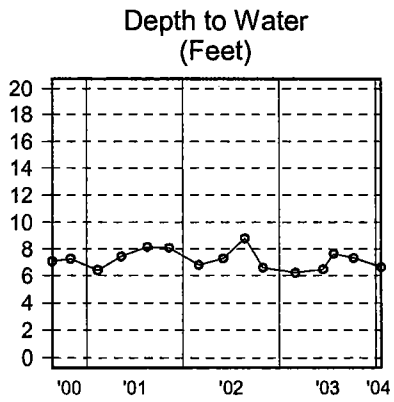
FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV





SOURCE: 2567MW06

Sampling Dates:
08/22/2000 - 01/16/2004

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 6 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

	LAB	Depth to Water									NOTES
Units:	-	Feet									-
NJDEP Criteria:	-	-									-
08/22/2000	FMETL	6.65									V,Pb
11/02/2000	FMETL	6.80									V,Pb
02/09/2001	FMETL	6.23									V,Pb
05/08/2001	FMETL	7.02									V, Pb
08/15/2001	FMETL	7.75									V, Pb
11/09/2001	FMETL	7.56									V, Pb
02/26/2002	FMETL	6.71									V, Pb
05/28/2002	FMETL	6.83									V,Pb
08/20/2002	FMETL	8.28									V, Pb
10/29/2002	FMETL	6.40									V, Pb
02/26/2003	FMETL	6.07									V, Pb
06/11/2003	FMETL	6.26									V, Pb
07/22/2003	FMETL	7.19									V, Pb
10/07/2003	FMETL	6.88									V, Pb
01/16/2004	FMETL	6.37									V, Pb

SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 01/16/2004

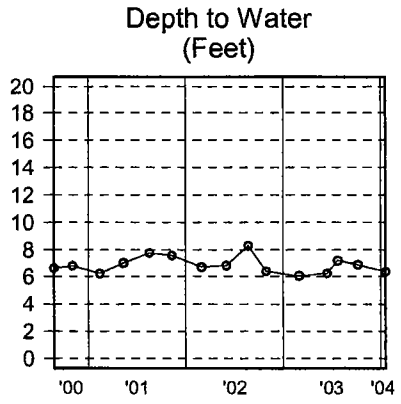
NOTES:

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV



SOURCE: 2567MW07

Sampling Dates:
08/22/2000 - 01/16/2004

LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
Bldg. 2567
Table / Graph A

Source 7 of 7, Graph

U.S.ARMY
FORT MONMOUTH
SELFM-PW-EV

APPENDIX H

Geoprobe® Point Groundwater Sampling Laboratory Data Sheets

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-6224 FAX: (732) 532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

CERTIFICATIONS: NJDEP #13461, NYSDOH #11699

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Bldg. 2567

Bldg. 2567

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time Of Collection	Date Received
Trip Blank	4008901	Aqueous	02-Feb-04	02/02/04
Field Blank	4008902	Aqueous	02-Feb-04 10:45	02/02/04
GW1	4008903	Aqueous	02-Feb-04 11:05	02/02/04
DUP.	4008904	Aqueous	02-Feb-04 11:05	02/02/04
GW2	4008905	Aqueous	02-Feb-04 11:15	02/02/04
GW3	4008906	Aqueous	02-Feb-04 11:20	02/02/04

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS

2-18-04

Daniel Wright/Date
Laboratory Director

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works

2567 SAMPLE LOCATIONS GPS POSITION & COORDINATES

US STATE PLANE 1983 NJ (NY EAST)

(IN US SURVEY FEET)

SAMPLE POINTS

POSITION / DESC.	Y COORD. (NORTHING)	X COORD. (EASTING)
GW1 2567	532957.125	609562.681
GW2 2567	532939.077	609564.605
GW3 2567	532919.389	609565.681

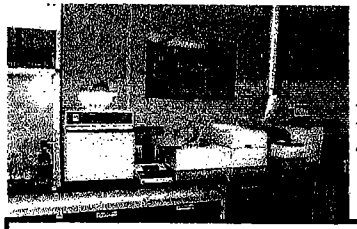
REFERENCE POINTS

2567 MW01	532958.107	609537.944

Table of Contents

Section	Pages
Chain of Custody	1-2
Method Summary	3-4
Laboratory Chronicle	5-6
Conformance/Non-Conformance Summary	7-9
Volatile Organics	10
Qualifier Codes	11
Results Summary	12-25
Tuning Results Summary	26-28
Method Blank Summary	29
Surrogate Results Summary	30
MS/MSD Results Summary	31
Internal Standard Area Summary	32
Raw Sample Data	33-46
Laboratory Deliverables Checklist	47
Laboratory Authentication Statement	48

CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: Doug Guenther
Phone #: 732 532 0986
( )DERA ( )OMA ( )Other:_____

Project No: 2567
Location:

Samplers Name / Company: George Boyce (TVS)

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	VOC								Remarks / Preservation Method
400,84 01	Trip	2/2/04		Aqueous	2	X								
02	Field Blank		1045		2	X								
03	GW1		1105		2	X								
04	Dupe		1105		2	X								
05	GW2		1115		2	X								
06	GW3		1120		2	X								

Comments:

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
George Boyce	2/2/04 1115	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, (X)Rush 1WK Days, ( )ASAP Verbal ____Hrs.

Remarks: Bottom of screen 8'

print legibly

000002

METHOD SUMMARY

Method Summary

EPA Method 624 – Aqueous
Gas Chromatographic Determination of Volatiles in Water

A 5-ml volume of sample is added to 5-ml aliquot of water. Surrogates and internal standards are added and the sample is placed on a purge and trap concentrator. The sample is purged and desorbed into a GC/MS system. Volatiles are then identified and quantitated.

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 40089 **Site:** Bldg. 2567

	Date	Hold Time
Date Sampled	02/02/04	NA
Receipt/Refrigeration	02/02/04	NA

Analyses

1. Volatile Organics	02/06,07/04	14 Days

CONFORMANCE/ NON-CONFORMANCE SUMMARY

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

	Indicate Yes, No, N/A
1. Chromatograms labeled/Compounds identified (Field samples and method blanks)	yes
2. Retention times for chromatograms provided	yes
3. GC/MS Tune Specifications	
a. BFB Meet Criteria	yes
b. DFTPP Meet Criteria	NA
4. GC/MS Tuning Frequency – Performed every 24 hours for 600 series and 12 hours for 8000 series	yes
5. GC/MS Calibration – Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series	yes
6. GC/MS Calibration requirements	
a. Calibration Check Compounds Meet Criteria	yes
b. System Performance Check Compounds Meet Criteria	yes
7. Blank Contamination – If yes, List compounds and concentrations in each blank:	yes
a. VOA Fraction Acetone 2.54 ug/L	
b. B/N Fraction NA	
c. Acid Fraction NA	
8. Surrogate Recoveries Meet Criteria	yes
If not met, list those compounds and their recoveries, which fall outside the acceptable range:	
a. VOA Fraction	
b. B/N Fraction NA	
c. Acid Fraction NA	
If not met, were the calculations checked and the results qualified as "estimated"?	
9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries, which fall outside the acceptable range)	yes
a. VOA Fraction	
b. B/N Fraction NA	
c. Acid Fraction NA	

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (cont.)

Indicate
Yes, No, N/A

10. Internal Standard Area/Retention Time Shift Meet Criteria — yes
(If not met, list those compounds, which fall outside the acceptable range)

a. VOA Fraction _____
b. B/N Fraction NA
c. Acid Fraction NA

11. Extraction Holding Time Met — NA

If not met, list the number of days exceeded for each sample: _____

12. Analysis Holding Time Met — yes

If not met, list the number of days exceeded for each sample: _____

Additional Comments:

Laboratory Manager: _____ Date: 2-18-04

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

U: The compound was analyzed for but not detected.

B: Indicates that the compound was found in the associated method blank as well as in the sample.

J: Indicates an estimated value. This flag is used:

(1) When the mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

(2) When estimating the concentration of a tentatively identified compound (TIC), where a 1:1 response is assumed.

D: This flag is used to identify all compounds (target or TIC) that required a dilution.

E: Indicates the compound's concentration exceeds the calibration range of the instrument for that specific analysis.

N: This flag is only used for TICs. It indicates the presumptive evidence of a compound. For a generic characterization of a TIC, such as unknown hydrocarbon, the flag is not used.

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB015520.D**	Sample Name	**MB 06Feb04**
Operator	**Skelton**	Field ID	**MB 06Feb04**
Date Acquired	**6 Feb 2004 1:24 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone	12.05	57277	2.54 ug/L	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MB 06Feb04**

Lab Name: FMETL NJDEP#: 13461

Project: _____ Case No.: 40089 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MB 06Feb04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB015520.D

Level: (low/med) LOW Date Received: 2/2/2004

% Moisture: not dec. _____ Date Analyzed: 2/6/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB015535.D**	Sample Name	**4008901**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**6 Feb 2004 11:39 pm**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform	16.75	33816	0.58 ug/L	6	0.32 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40089 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4008901

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB015535.D

Level: (low/med) LOW Date Received: 2/2/2004

% Moisture: not dec. Date Analyzed: 2/6/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB015536.D**	Sample Name	**4008902**
Operator	**Skelton**	Field ID	**Field**
Date Acquired	**7 Feb 2004 12:16 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform	16.75	39877	0.70 ug/L	6	0.32 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40089 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4008902

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB015536.D

Level: (low/med) LOW Date Received: 2/2/2004

% Moisture: not dec. Date Analyzed: 2/7/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB015537.D	Sample Name	4008903
Operator	Skelton	Field ID	GW1
Date Acquired	7 Feb 2004 12:53 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	12.92	326653	5.52 ug/L	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: GW1

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40089 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4008903

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB015537.D

Level: (low/med) LOW Date Received: 2/2/2004

% Moisture: not dec. Date Analyzed: 2/7/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB015538.D**	Sample Name	**4008904**
Operator	**Skelton**	Field ID	**Dupe**
Date Acquired	**7 Feb 2004 1:30 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	12.92	370298	6.28 ug/L	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

C:\HPCHEM\Custrpt\Volatile\624FY03.CRT

000020

2/10/2004 9:51 AM

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL NJDEP#: 13461

Project: _____ Case No.: 40089 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4008904

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB015538.D

Level: (low/med) LOW Date Received: 2/2/2004

% Moisture: not dec. _____ Date Analyzed: 2/7/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB015539.D**	Sample Name	**4008905**
Operator	**Skelton**	Field ID	**GW2**
Date Acquired	**7 Feb 2004 2:07 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	12.95	152736	2.63 ug/L	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: GW2

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40089 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4008905

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB015539.D

Level: (low/med) LOW Date Received: 2/2/2004

% Moisture: not dec. Date Analyzed: 2/7/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB015540.D	Sample Name	4008906
Operator	Skelton	Field ID	GW3
Date Acquired	7 Feb 2004 2:43 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol	13.49	42726	46.00 ug/L	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	13.03	27655	0.47 ug/L	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **GW3**

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40089 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4008906

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB015540.D

Level: (low/med) LOW Date Received: 2/2/2004

% Moisture: not dec. Date Analyzed: 2/7/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40089 Location: 2567 SDG No.:

Lab File ID: VB015513.D BFB Injection Date: 2/6/2004

Instrument ID: GCMS#2 BFB Injection Time: 9:14

GC Column: RTX502.2 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.5
75	30.0 - 66.0% of mass 95	57.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	86.5
175	4.0 - 9.0% of mass 174	6.1 (7.1)1
176	93.0 - 101.0% of mass 174	83.7 (96.8)1
177	5.0 - 9.0% of mass 176	5.6 (6.7)2

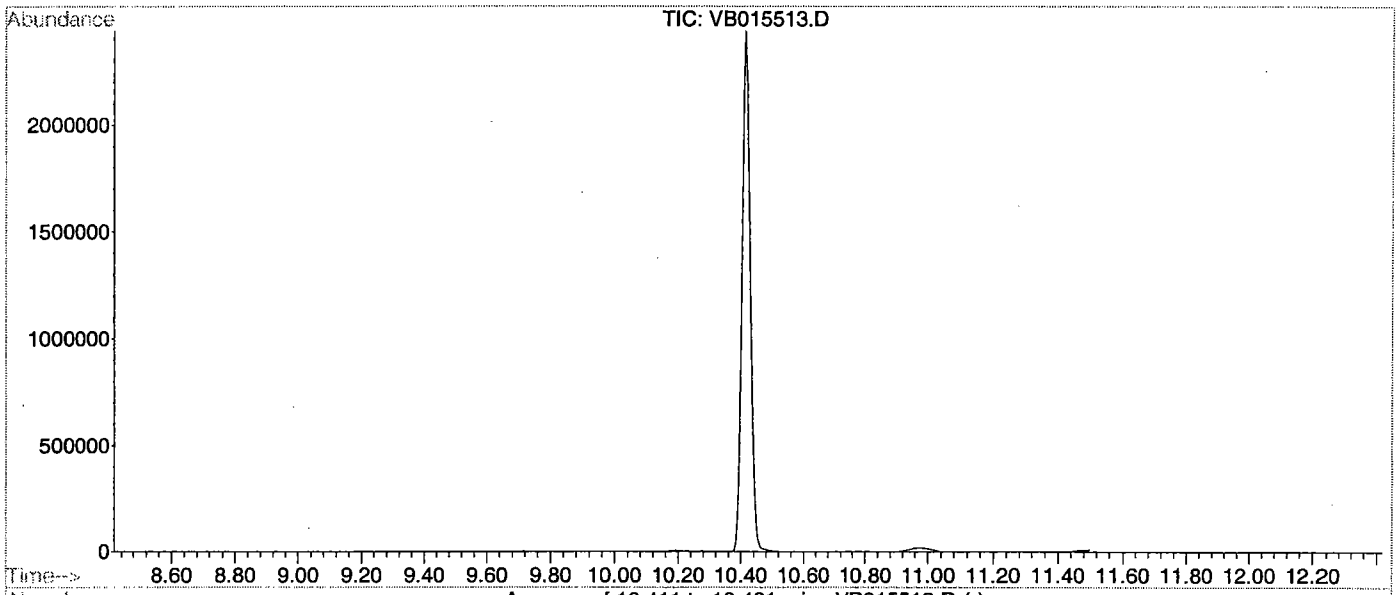
1-Value is % mass 174 2-Value is % mass 176

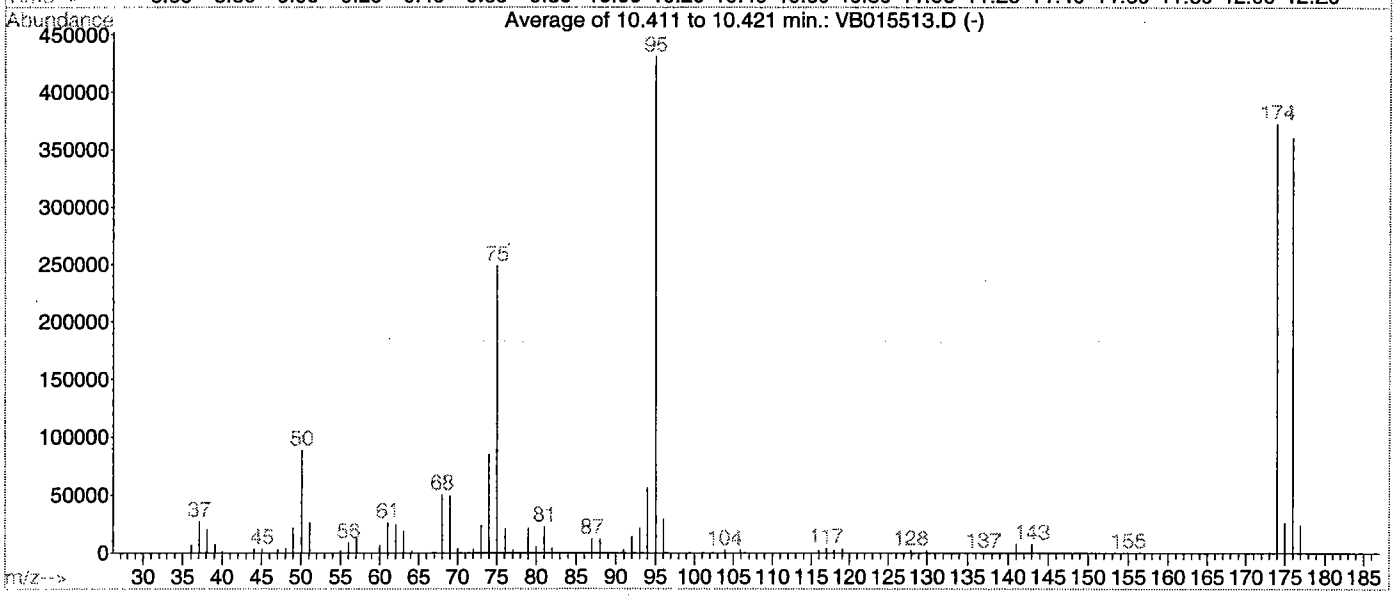
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	FIELD ID:	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	VB015514.D	2/6/2004	9:44
02	VSTD005	VSTD005	VB015515.D	2/6/2004	10:20
03	VSTD002	VSTD002	VB015516.D	2/6/2004	10:57
04	VSTD050	VSTD050	VB015517.D	2/6/2004	11:34
05	VSTD020	VSTD020	VB015518.D	2/6/2004	12:11
06	MB 06FEB04	MB 06FEB04	VB015520.D	2/6/2004	13:24
07	TRIP BLANK	4008901	VB015535.D	2/6/2004	23:39
08	FIELD BLANK	4008902	VB015536.D	2/7/2004	0:16
09	GW1	4008903	VB015537.D	2/7/2004	0:53
10	DUPE	4008904	VB015538.D	2/7/2004	1:30
11	GW2	4008905	VB015539.D	2/7/2004	2:07
12	GW3	4008906	VB015540.D	2/7/2004	2:43

BFB

Data File : C:\HPCHEM\1\DATA\040206\VB015513.D Vial: 2
Acq On : 6 Feb 2004 9:14 am Operator: Skelton
Sample : BFB Tune Inst : GC/MS Ins
Misc : BFB Tune Multiplr: 1.00
MS Integration Params: GASES.P
Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP





AutoFind: Scans 171, 172, 173; Background Corrected with Scan 162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	88552	PASS
75	95	30	60	57.8	249109	PASS
95	95	100	100	100.0	430912	PASS
96	95	5	9	6.8	29136	PASS
173	174	0.00	2	0.2	851	PASS
174	95	50	100	86.5	372757	PASS
175	174	5	9	7.1	26405	PASS
176	174	95	101	96.8	360853	PASS
177	176	5	9	6.7	24040	PASS

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration

Calibration Files
50 =VB015517.D 20 =VB015518.D 10 =VB015514.D
5 =VB015515.D 2 =VB015516.D

		Compound	50	20	10	5	2	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------						
2)	t	Acrolein	0.173	0.161	0.156	0.134	0.112	0.147	16.62
3)	t	Acrylonitrile	0.620	0.599	0.613	0.602	0.556	0.598	4.19
4)	t	tert-Butyl alcohol	0.063	0.059	0.064	0.072	0.047	0.061	14.69
5)	t	Methyl-tert-Butyl eth	3.963	3.859	4.000	3.796	3.590	3.842	4.22
6)	t	Di-isopropyl ether	1.700	1.628	1.651	1.586	1.421	1.597	6.69
7)	T	Dichlorodifluorometha	0.922	0.923	1.182	1.104	0.964	1.019	11.57
8)	TP	Chloromethane	1.238	1.295	1.462	1.390	1.360	1.349	6.41
9)	TC	Vinyl Chloride	1.568	1.606	1.717	1.681	1.677	1.650	3.70
10)	T	Bromomethane	1.468	1.488	1.537	1.541	1.535	1.514	2.20
11)	T	Chloroethane	1.043	1.040	1.063	1.074	1.012	1.046	2.30
12)	T	Trichlorofluoromethan	1.385	1.347	1.140	1.168	1.080	1.224	10.99
13)	MC	1,1-Dichloroethene	2.643	2.561	2.566	2.446	2.342	2.511	4.69
14)	T	Acetone	0.916	0.990	1.027	1.438	2.699	1.414	52.77
15)	T	Carbon Disulfide	4.626	4.324	4.179	3.803	3.490	4.084	10.89
16)	T	Methylene Chloride	1.907	1.899	2.045	2.056	2.311	2.044	8.16
17)	T	trans-1,2-Dichloroeth	2.403	2.286	2.319	2.214	2.105	2.265	4.96
18)	TP	1,1-Dichloroethane	2.910	2.793	2.853	2.753	2.621	2.786	3.95
19)	T	Vinyl Acetate	2.543	2.250	2.315	1.980	1.674	2.152	15.54
20)	T	2-Butanone	0.833	0.745	0.610	0.609	0.607	0.681	15.18
21)	T	cis-1,2-Dichloroethen	2.434	2.309	2.338	2.278	2.146	2.301	4.55
22)	TC	Chloroform	3.820	3.630	3.663	3.633	3.525	3.654	2.91
23)	T	1,1,1-Trichloroethane	3.788	3.531	3.415	3.231	2.863	3.366	10.28
24)	T	Carbon Tetrachloride	3.345	2.968	2.733	2.578	2.405	2.806	13.03
25)	S	1,2-Dichloroethane-d4	3.063	2.971	3.009	3.111	3.060	3.043	1.77
26)	I	1,4-Difluorobenzene	----------ISTD----------						
27)	TM	Benzene	1.125	1.089	1.106	1.091	1.082	1.098	1.55
28)	T	1,2-Dichloroethane	0.481	0.469	0.469	0.475	0.466	0.472	1.30
29)	TM	Trichloroethene	0.372	0.354	0.343	0.340	0.330	0.348	4.66
30)	TC	1,2-Dichloropropane	0.225	0.216	0.217	0.208	0.197	0.212	5.00
31)	T	Bromodichloromethane	0.392	0.337	0.304	0.283	0.262	0.316	16.11
32)	T	2-Chloroethyl vinyl e	0.138	0.128	0.122	0.106	0.098	0.118	13.60
33)	T	cis-1,3-Dichloroprope	0.416	0.374	0.351	0.310	0.278	0.346	15.54
34)	T	4-Methyl-2-Pentanone	0.077	0.068	0.051	0.043	0.039	0.056	29.13
35)	S	Toluene-d8	1.205	1.147	1.140	1.133	1.113	1.148	3.00
36)	TCM	Toluene	1.318	1.252	1.251	1.238	1.234	1.259	2.70
37)	I	Chlorobenzene-d5	----------ISTD----------						
38)	T	trans-1,3-Dichloropro	1.628	1.443	1.329	1.146	1.029	1.315	18.04
39)	T	1,1,2-Trichloroethane	1.012	0.985	0.965	0.974	0.916	0.970	3.61
40)	T	Tetrachloroethene	1.479	1.433	1.382	1.410	1.388	1.419	2.78
41)	T	2-Hexanone	0.523	0.459	0.365	0.307	0.270	0.385	27.30
42)	T	Dibromochloromethane	1.235	1.047	0.924	0.854	0.805	0.973	17.69
43)	TMP	Chlorobenzene	3.491	3.344	3.357	3.405	3.430	3.406	1.74
44)	TC	Ethylbenzene	5.722	5.427	5.387	5.353	5.183	5.414	3.61
45)	T	m+p-Xylenes	2.202	2.066	2.016	1.972	1.887	2.029	5.76
46)	T	o-Xylene	4.553	4.283	4.303	4.113	3.932	4.237	5.47
47)	T	Styrene	3.392	2.992	2.770	2.523	2.248	2.785	15.73
48)	TP	Bromoform	0.926	0.758	0.663	0.653	0.620	0.724	17.12
49)	S	Bromofluorobenzene	1.826	1.745	1.738	1.704	1.675	1.738	3.27
50)	TP	1,1,2,2-Tetrachloroet	1.132	1.077	1.077	0.970	0.858	1.023	10.70
51)	T	1,3-Dichlorobenzene	2.938	2.772	2.762	2.655	2.619	2.749	4.53
52)	T	1,4-Dichlorobenzene	3.067	2.880	2.857	2.811	2.721	2.867	4.44
53)	T	1,2-Dichlorobenzene	2.709	2.575	2.550	2.505	2.444	2.557	3.86

(#) = Out of Range

4A

VOLATILE METHOD BLANK SUMMARY

FIELD ID: **MB 06Feb04**

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40089 Location: 2567 SDG No.:

Lab File ID: VB015520.D Lab Sample ID: MB 06Feb04

Date Analyzed: 2/6/2004 Time Analyzed: 13:24

GC Column: RTX502. ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS#2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	FIELD ID:	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TRIP BLANK	4008901	VB015535.D	23:39
02	FIELD BLANK	4008902	VB015536.D	0:16
03	GW1	4008903	VB015537.D	0:53
04	DUPE	4008904	VB015538.D	1:30
05	GW2	4008905	VB015539.D	2:07
06	GW3	4008906	VB015540.D	2:43

COMMENTS:

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: FMETL NJDEP#: 13461

Project: _____ Case No.: 40089 Location: 2567 SDG No.: _____

	FIELD ID:	SMC1 DCE #	SMC2 TOL #	SMC3 BFB #	TOT OUT
01	MB 06FEB04	87	87	85	0
02	TRIP BLANK	92	88	88	0
03	FIELD BLANK	92	88	86	0
04	GW1	93	88	87	0
05	DUPE	92	88	86	0
06	GW2	94	89	85	0
07	GW3	93	88	84	0

QC LIMITS

SMC1	DCE	=	1,2-Dichloroethane-d4	(70-125)
SMC2	TOL	=	Toluene-d8	(70-125)
SMC3	BFB	=	Bromofluorobenzene	(70-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration

Non-Spiked Sample: VB015540.D

	Spike Sample	Spike Duplicate Sample
File ID :	VB015541.D	VB015542.D
Sample :	4008906 MS	4008906 MSD
Acq Time:	7 Feb 2004 3:20 am	7 Feb 2004 3:57 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	10	10	10	98	97	0	22	59-172
Benzene	0.0	10	10	10	104	103	1	21	66-142
Trichloroethene	0.0	10	10	10	96	98	2	24	62-137
Toluene	0.0	10	10	10	104	103	0	21	59-139
Chlorobenzene	0.0	10	10	10	100	100	0	21	60-133

- Fails Limit Check

M2VOA46.M Tue Feb 17 13:59:24 2004

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40089 Location: 2567 SDG No.:

Lab File ID (Standard): VB015514.D Date Analyzed: 2/6/2004

Instrument ID: GCMS#2 Time Analyzed: 9:44

GC Column: RTX502.2 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1BCM AREA #	RT #	IS2DFB AREA #	RT #	IS3CBZ AREA #	RT #
	12 HOUR STD	522534	16.50	3440214	19.70	912812	25.72
	UPPER LIMIT	1045068	17.00	6880428	20.20	1825624	26.22
	LOWER LIMIT	261267	16.00	1720107	19.20	456406	25.22
	FIELD ID:						
01	MB 06FEB04	479155	16.51	3225045	19.71	855320	25.73
02	TRIP BLANK	480716	16.51	3306140	19.71	870727	25.73
03	FIELD BLANK	470537	16.51	3229685	19.71	861360	25.73
04	GW1	462439	16.51	3184581	19.71	841055	25.73
05	DUPE	460358	16.51	3136574	19.71	830504	25.73
06	GW2	453877	16.51	3139044	19.71	830879	25.73
07	GW3	456166	16.51	3138407	19.71	832988	25.73

IS1 BCM = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040206\VB015520.D Vial: 8
Acq On : 6 Feb 2004 1:24 pm Operator: Skelton
Sample : MB 06Feb04 Inst : GC/MS Ins
Misc : MB 06Feb04 Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 6 13:57 2004 Quant Results File: M2VOA46.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA46

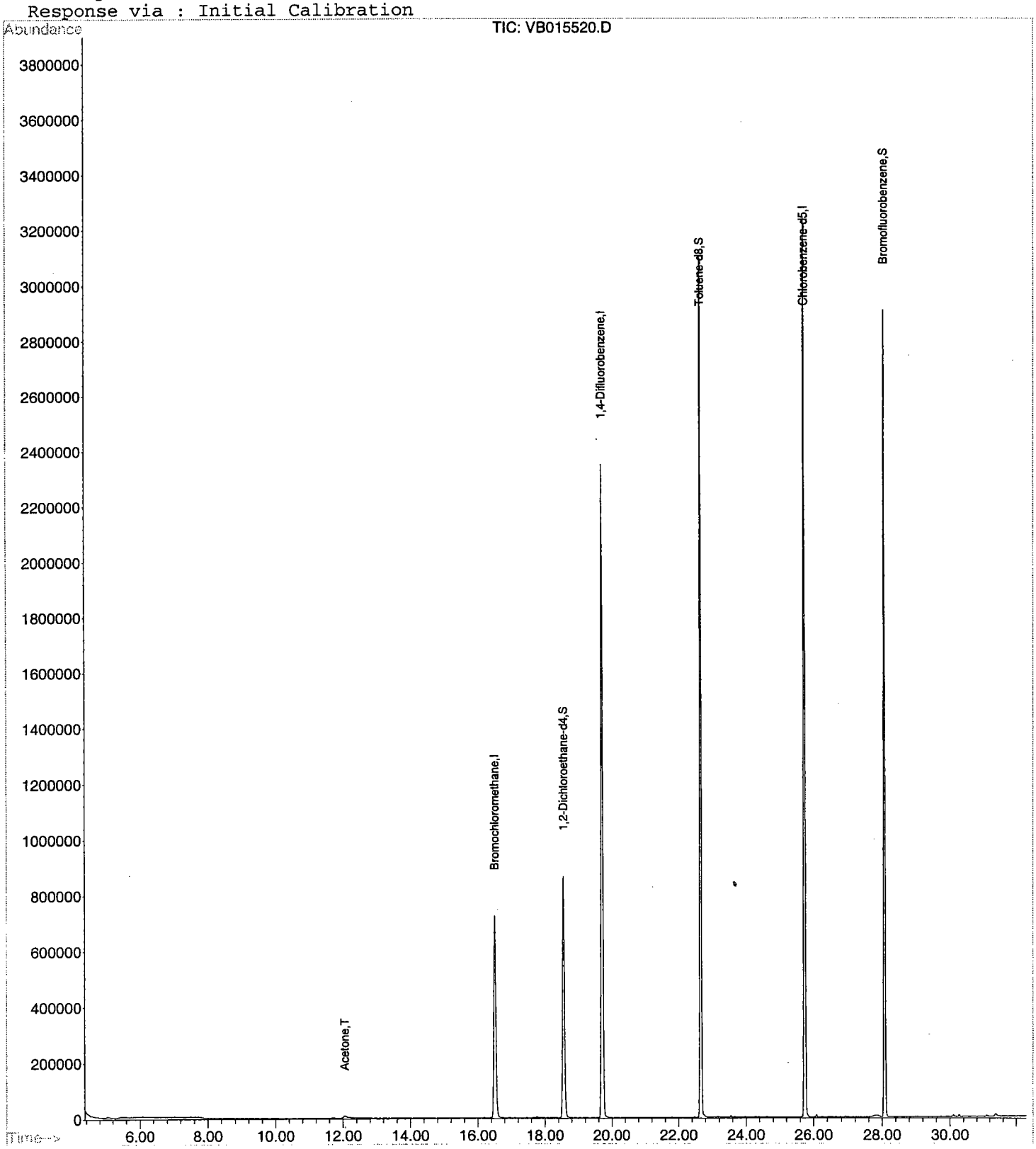
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	16.51	128	479155	30.00 ug/L	0.00
26) 1,4-Difluorobenzene	19.71	114	3225045	30.00 ug/L	0.00
37) Chlorobenzene-d5	25.73	119	855320	30.00 ug/L	0.00
System Monitoring Compounds					
25) 1,2-Dichloroethane-d4	18.55	65	1274978	26.23 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 87.43%		
35) Toluene-d8	22.66	98	3211758	26.04 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 86.80%		
49) Bromofluorobenzene	28.07	95	1264525	25.52 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 85.07%		
Target Compounds					Qvalue
14) Acetone	12.05	43	57277	2.54 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040206\VB015520.D Vial: 8
Acq On : 6 Feb 2004 1:24 pm Operator: Skelton
Sample : MB 06Feb04 Inst : GC/MS Ins
Misc : MB 06Feb04 Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 6 13:57 2004 Quant Results File: M2VOA46.RES

Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040206\VB015535.D Vial: 14
Acq On : 6 Feb 2004 11:39 pm Operator: Skelton
Sample : 4008901 Inst : GC/MS Ins
Misc : Trip Blank Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 7 0:11 2004 Quant Results File: M2VOA46.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA46

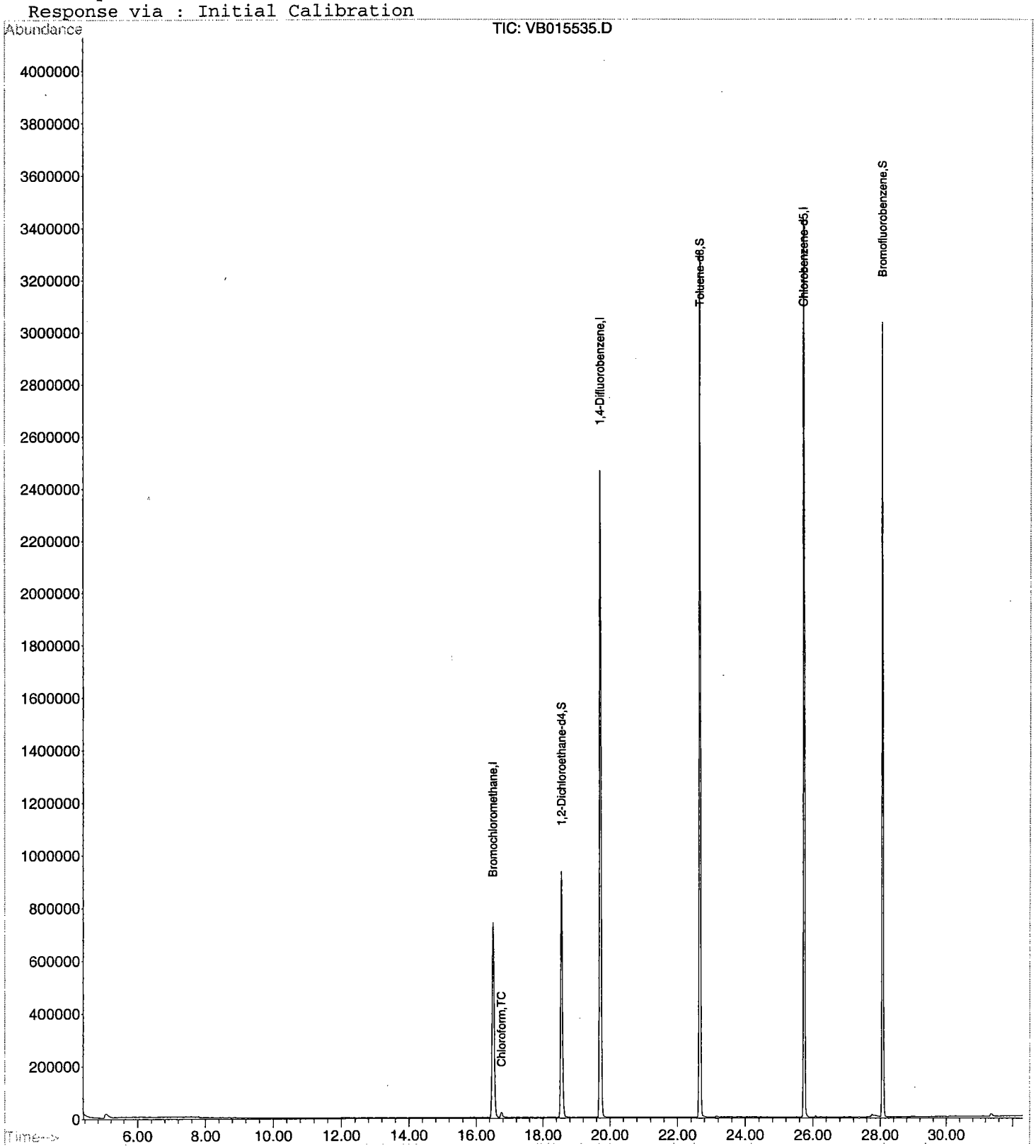
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	16.51	128	480716	30.00 ug/L	0.00
26) 1,4-Difluorobenzene	19.71	114	3306140	30.00 ug/L	0.00
37) Chlorobenzene-d5	25.73	119	870727	30.00 ug/L	0.00
System Monitoring Compounds					
25) 1,2-Dichloroethane-d4	18.56	65	1350501	27.70 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 92.33%		
35) Toluene-d8	22.66	98	3335248	26.37 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 87.90%		
49) Bromofluorobenzene	28.07	95	1330018	26.37 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 87.90%		
Target Compounds					Qvalue
22) Chloroform	16.75	83	33816	0.58 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040206\VB015535.D Vial: 14
Acq On : 6 Feb 2004 11:39 pm Operator: Skelton
Sample : 4008901 Inst : GC/MS Ins
Misc : Trip Blank Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 7 0:11 2004 Quant Results File: M2VOA46.RES

Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040206\VB015536.D Vial: 15
Acq On : 7 Feb 2004 12:16 am Operator: Skelton
Sample : 4008902 Inst : GC/MS Ins
Misc : Field Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 7 0:48 2004 Quant Results File: M2VOA46.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA46

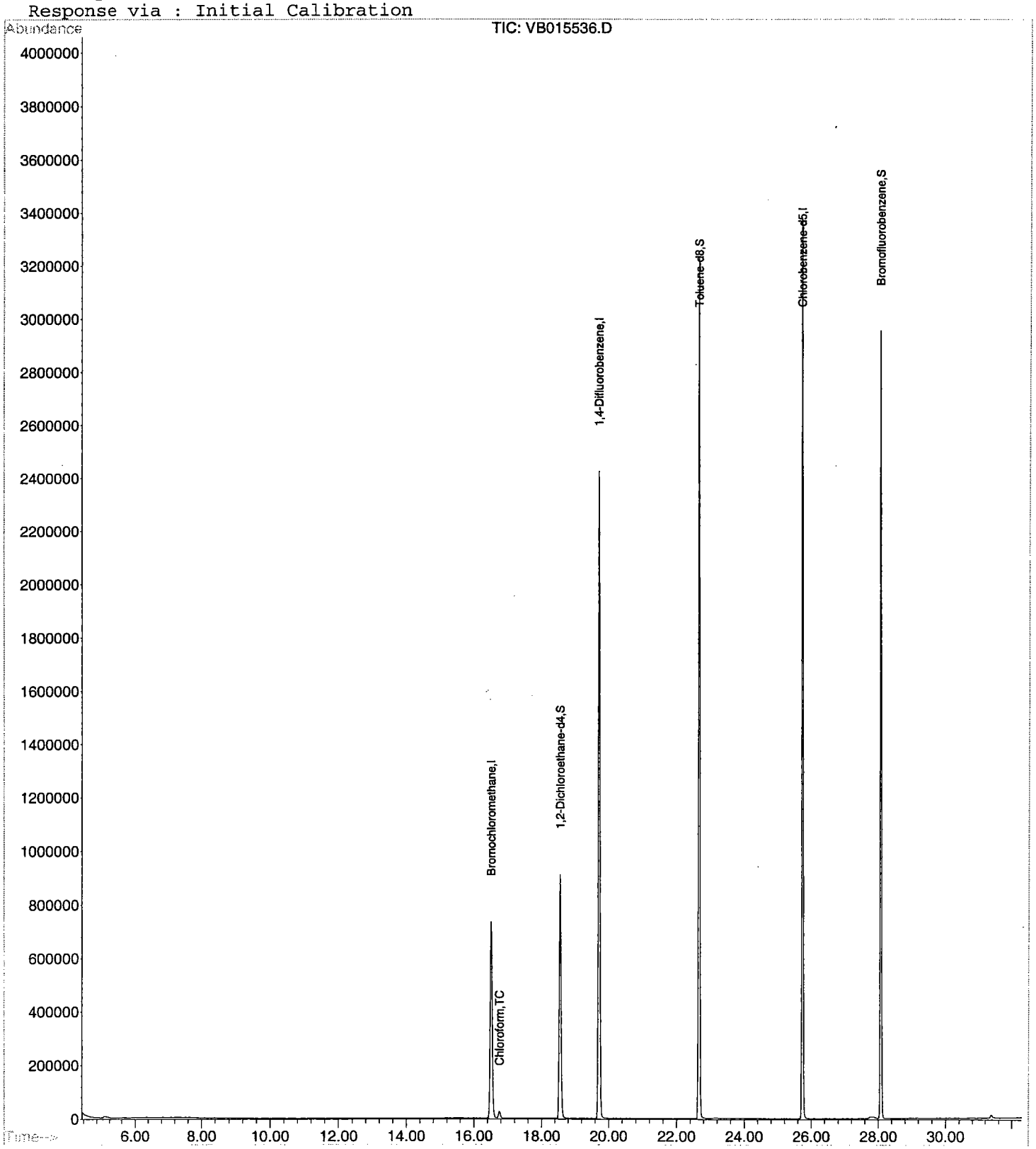
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	16.51	128	470537	30.00 ug/L	0.00
26) 1,4-Difluorobenzene	19.71	114	3229685	30.00 ug/L	0.00
37) Chlorobenzene-d5	25.73	119	861360	30.00 ug/L	0.00
System Monitoring Compounds					
25) 1,2-Dichloroethane-d4	18.55	65	1319789	27.65 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 92.17%		
35) Toluene-d8	22.66	98	3272446	26.49 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 88.30%		
49) Bromofluorobenzene	28.07	95	1287818	25.81 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 86.03%		
Target Compounds					Qvalue
22) Chloroform	16.75	83	39877	0.70 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040206\VB015536.D Vial: 15
Acq On : 7 Feb 2004 12:16 am Operator: Skelton
Sample : 4008902 Inst : GC/MS Ins
Misc : Field Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 7 0:48 2004 Quant Results File: M2VOA46.RES

Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040206\VB015537.D Vial: 16
Acq On : 7 Feb 2004 12:53 am Operator: Skelton
Sample : 4008903 Inst : GC/MS Ins
Misc : GW1 Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 10 9:46 2004 Quant Results File: M2VOA46.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA46

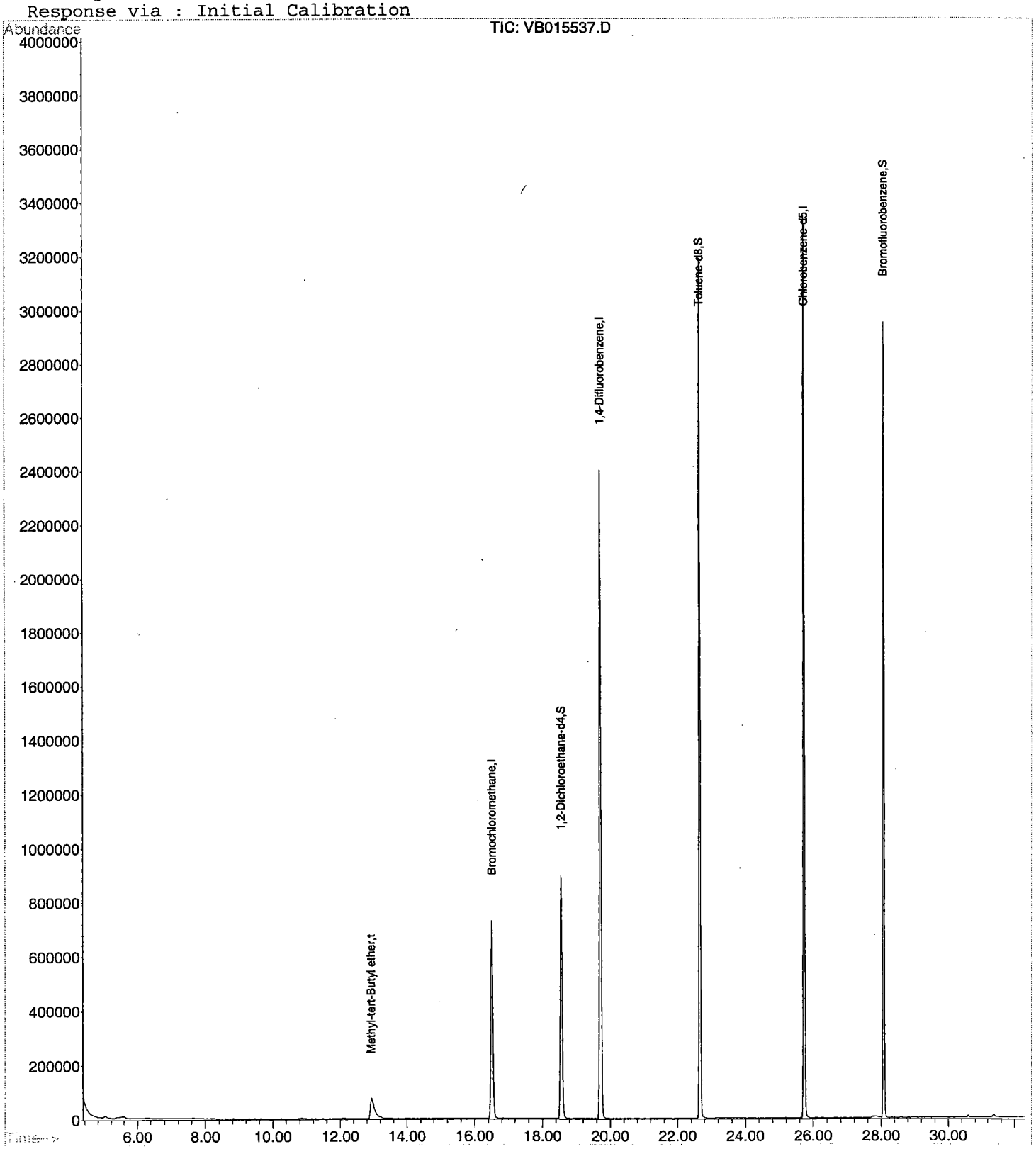
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	16.51	128	462439	30.00 ug/L	0.00
26) 1,4-Difluorobenzene	19.71	114	3184581	30.00 ug/L	0.00
37) Chlorobenzene-d5	25.73	119	841055	30.00 ug/L	0.00
System Monitoring Compounds					
25) 1,2-Dichloroethane-d4	18.55	65	1307339	27.87 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 92.90%		
35) Toluene-d8	22.65	98	3216166	26.40 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 88.00%		
49) Bromofluorobenzene	28.07	95	1276780	26.21 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 87.37%		
Target Compounds					Qvalue
5) Methyl-tert-Butyl ether	12.92	73	326653	5.52 ug/L	91

(#) = qualifier out of range (m) = manual integration
VB015537.D M2VOA46.M Tue Feb 10 09:49:06 2004

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040206\VB015537.D Vial: 16
Acq On : 7 Feb 2004 12:53 am Operator: Skelton
Sample : 4008903 Inst : GC/MS Ins
Misc : GW1 Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 10 9:46 2004 Quant Results File: M2VOA46.RES

Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040206\VB015538.D Vial: 17
Acq On : 7 Feb 2004 1:30 am Operator: Skelton
Sample : 4008904 Inst : GC/MS Ins
Misc : Dupe Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 10 9:46 2004 Quant Results File: M2VOA46.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA46

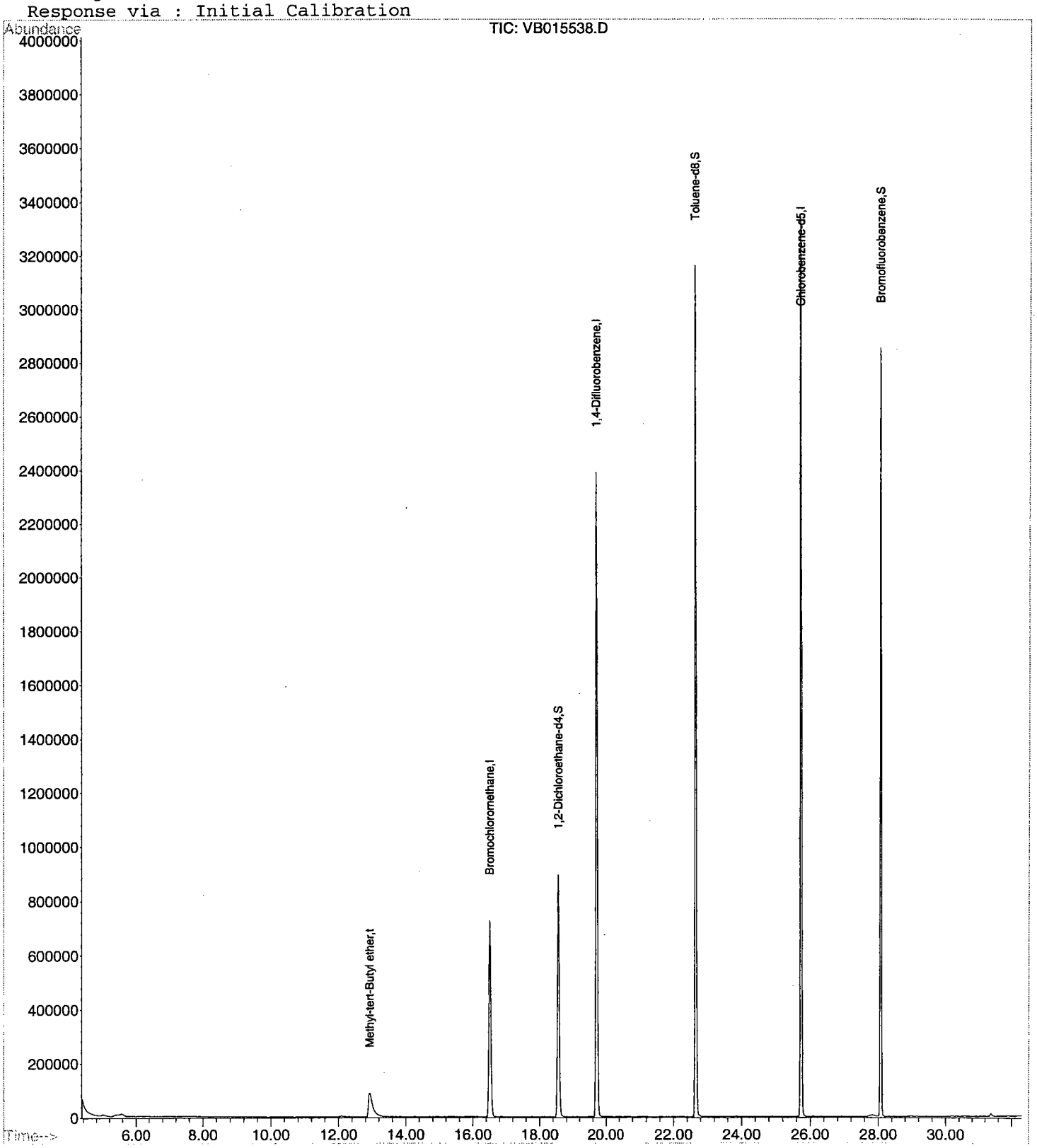
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.51	128	460358	30.00	ug/L	0.00
26) 1,4-Difluorobenzene	19.71	114	3136574	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.73	119	830504	30.00	ug/L	0.00
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.55	65	1289332	27.61	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 92.03%			
35) Toluene-d8	22.66	98	3178616	26.49	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 88.30%			
49) Bromofluorobenzene	28.07	95	1240876	25.79	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 85.97%			
Target Compounds						Qvalue
5) Methyl-tert-Butyl ether	12.92	73	370298	6.28	ug/L	92

(#) = qualifier out of range (m) = manual integration
VB015538.D M2VOA46.M Tue Feb 10 09:49:08 2004

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040206\VB015538.D Vial: 17
Acq On : 7 Feb 2004 1:30 am Operator: Skelton
Sample : 4008904 Inst : GC/MS Ins
Misc : Dupe Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 10 9:46 2004 Quant Results File: M2VOA46.RES

Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040206\VB015539.D Vial: 18
Acq On : 7 Feb 2004 2:07 am Operator: Skelton
Sample : 4008905 Inst : GC/MS Ins
Misc : GW2 Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 7 2:39 2004 Quant Results File: M2VOA46.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA46

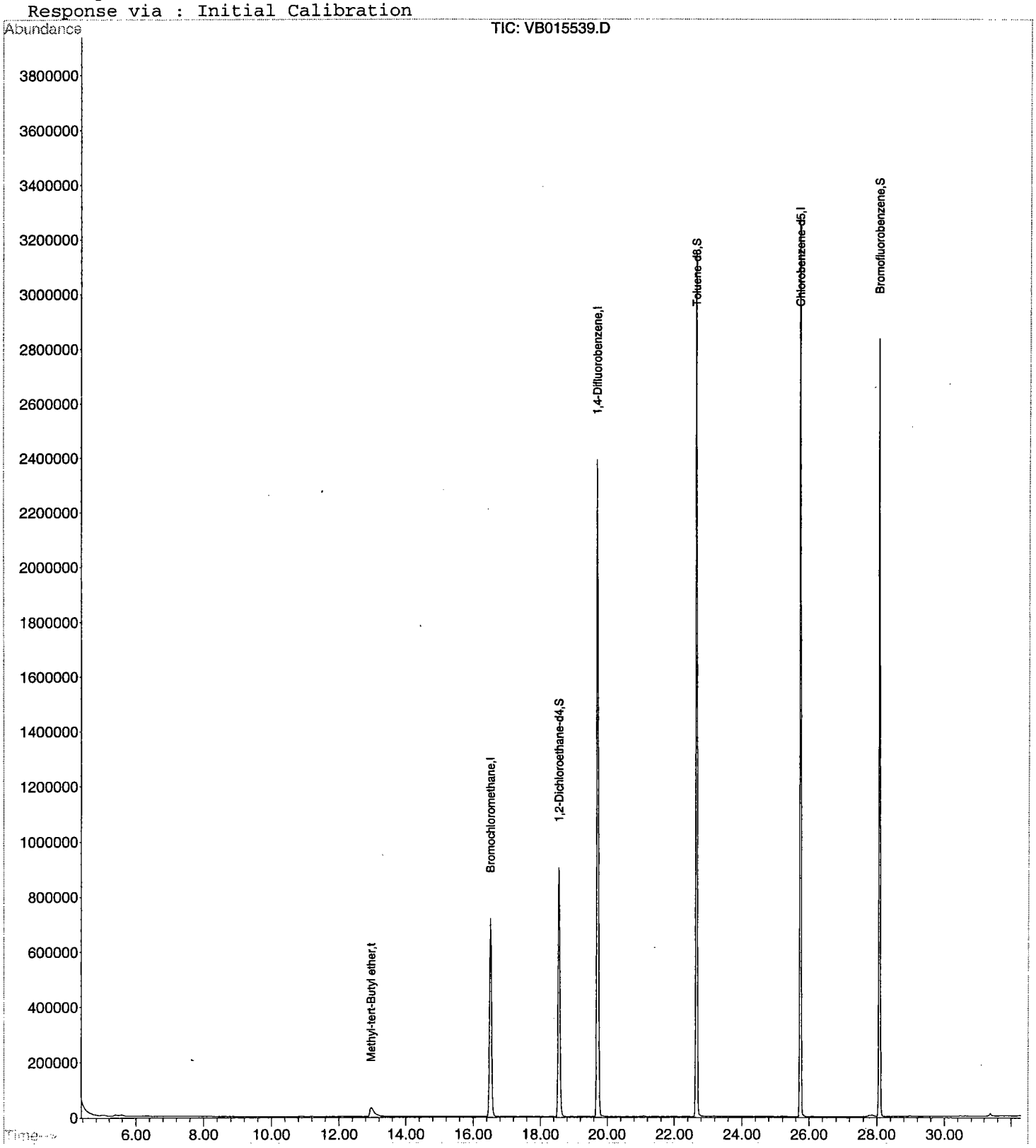
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	16.51	128	453877	30.00 ug/L	0.00
26) 1,4-Difluorobenzene	19.71	114	3139044	30.00 ug/L	0.00
37) Chlorobenzene-d5	25.73	119	830879	30.00 ug/L	0.00
System Monitoring Compounds					
25) 1,2-Dichloroethane-d4	18.55	65	1302288	28.29 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 94.30%		
35) Toluene-d8	22.66	98	3193573	26.60 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 88.67%		
49) Bromofluorobenzene	28.07	95	1233205	25.62 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 85.40%		
Target Compounds					Qvalue
5) Methyl-tert-Butyl ether	12.95	73	152736	2.63 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040206\VB015539.D Vial: 18
Acq On : 7 Feb 2004 2:07 am Operator: Skelton
Sample : 4008905 Inst : GC/MS Ins
Misc : GW2 Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 7 2:39 2004 Quant Results File: M2VOA46.RES

Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040206\VB015540.D Vial: 19
Acq On : 7 Feb 2004 2:43 am Operator: Skelton
Sample : 4008906 Inst : GC/MS Ins
Misc : GW3 Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 7 3:16 2004 Quant Results File: M2VOA46.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA46

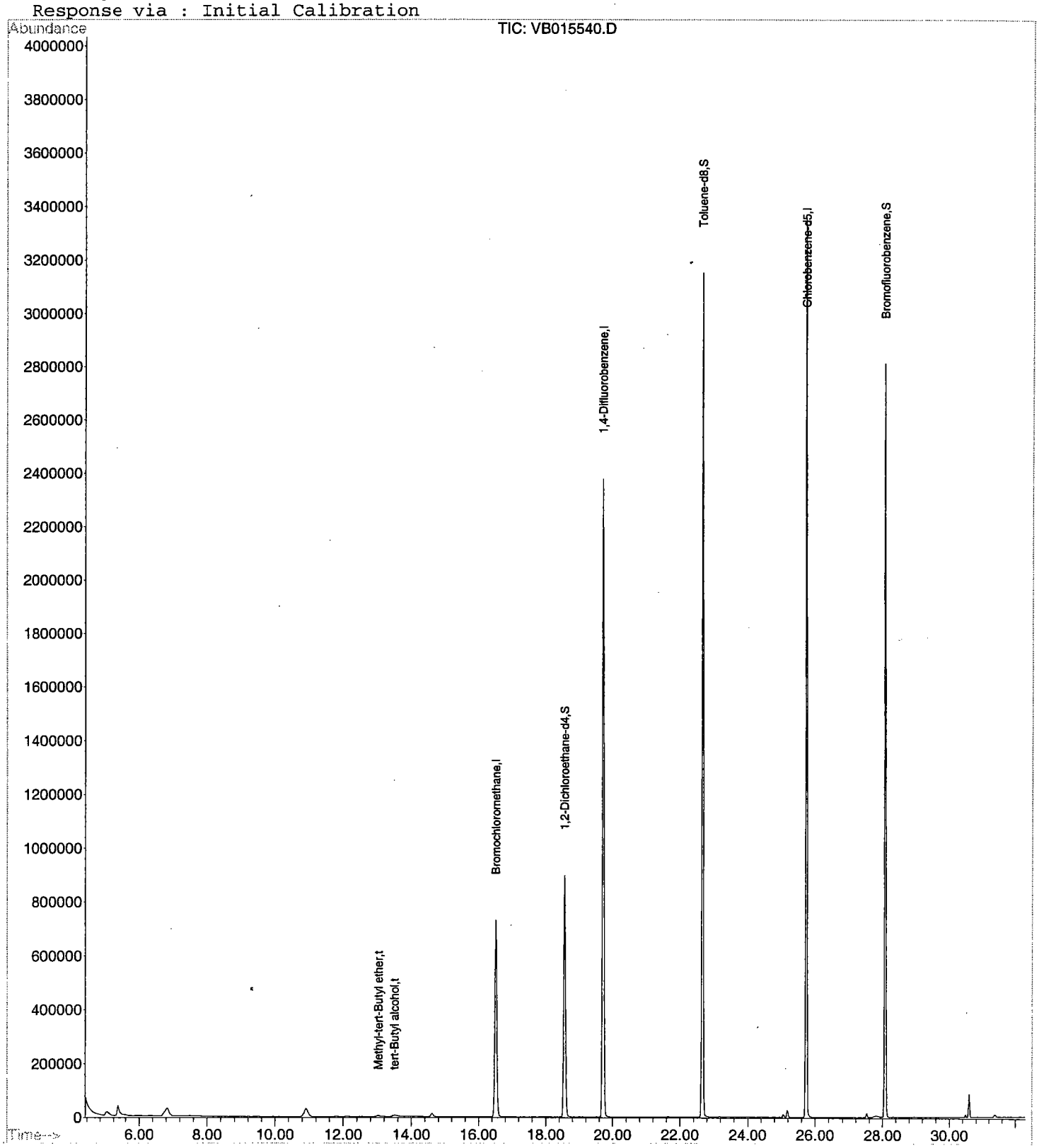
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.51	128	456166	30.00	ug/L	0.00
26) 1,4-Difluorobenzene	19.71	114	3138407	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.73	119	832988	30.00	ug/L	0.00
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.55	65	1287906	27.84	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 92.80%			
35) Toluene-d8	22.66	98	3160305	26.33	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 87.77%			
49) Bromofluorobenzene	28.07	95	1213525	25.15	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 83.83%			
Target Compounds						Qvalue
4) tert-Butyl alcohol	13.49	59	42726	46.00	ug/L #	86
5) Methyl-tert-Butyl ether	13.03	73	27655	0.47	ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040206\VB015540.D Vial: 19
Acq On : 7 Feb 2004 2:43 am Operator: Skelton
Sample : 4008906 Inst : GC/MS Ins
Misc : GW3 Multiplr: 1.00
MS Integration Params: GASES.P
Quant Time: Feb 7 3:16 2004 Quant Results File: M2VOA46.RES

Method : C:\HPCHEM\1\METHODS\M2VOA46.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 06 12:57:22 2004
Response via : Initial Calibration



LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package <u>and</u> in the main body of the report.

1. Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted. ✓
2. Table of Contents submitted. ✓
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted. ✓
4. Document paginated and legible. ✓
5. Chain of Custody submitted. ✓
6. Samples submitted to lab within 48 hours of sample collection. ✓
7. Methodology Summary submitted. ✓
8. Laboratory Chronicle and Holding Time Check submitted. ✓
9. Results submitted on a dry weight basis. ✓
10. Method Detection Limits submitted. ✓
11. Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP. ✓

Laboratory Manager or Environmental Consultant's Signature _____
Date: 2/14/04

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

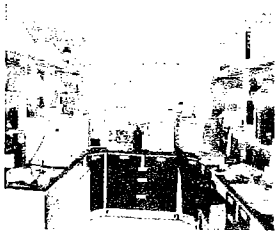
I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Daniel K. Wright
Laboratory Manager

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-4359 FAX: (732) 532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING
CERTIFICATIONS: NJDEP #13461, NYSDOH #11699



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: BLDG. 2567

Bldg. 2567

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
Trip Blank	4031601	Aqueous	30-April-04	04/30/04
Field Blank	4031602	Aqueous	30-April-04 12:00	04/30/04
W1	4031603	Aqueous	30-April-04 12:10	04/30/04
W2	4031604	Aqueous	30-April-04 12:22	04/30/04
Duplicate	4031605	Aqueous	30-April-04 12:22	04/30/04
W3	4031606	Aqueous	30-April-04 13:14	04/30/04
W4	4031607	Aqueous	30-April-04 13:24	04/30/04

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS

5-19-04

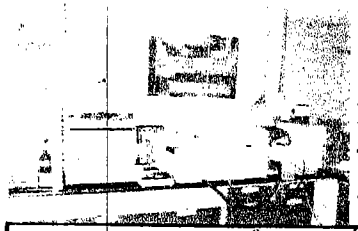
Daniel Wright/Date
Laboratory Director

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

Table of Contents

Section	Pages
Chain of Custody	1-2
Method Summary	3-4
Laboratory Chronicle	5-6
Conformance/Non-Conformance Summary	7-9
Volatile Organics	10
Qualifier Codes	10A
Results Summary	11-26
Tuning Results Summary	27-29
Method Blank Summary	30
Surrogate Results Summary	31
MS/MSD Results Summary	32
Internal Standard Area Summary	33
Raw Sample Data	34-49
Laboratory Deliverables Checklist	50
Laboratory Authentication Statement	51

CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: D. Guenther
Phone #: X20986
( )DERA ( )OMA ( )Other:

Project No:
Location: Bldg 2567

Samplers Name / Company:

Analysis Parameters: 1,4-D

Comments:

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	1,4-D	Remarks / Preservation Method
4D316 01	Trip	4/30/04		Aqui	2	X	
02	Field Blank		12:00		2		
03	W1		12:10		2		
04	W2		1222		2		
05	Dupe		1222		2		
06	W3		1314		2		
07	W4		1324		2		

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
George Boyce 4	30 04 1400	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, (X)Rush 7 Days, ( )ASAP Verbal ___ Hrs.

Remarks: Static W1 3.57
W2 3.52
W3 5.91
W4 6.56

print legibly

Page 1 of 1

COC.XLS4/22/2004

000002

METHOD SUMMARY

Method Summary

EPA Method 624–Aqueous
Gas Chromatographic Determination of Volatiles in Water

A 5-ml volume of sample is added to 5-ml aliquot of water. Surrogates and internal standards are added and the sample is placed on a purge and trap concentrator. The sample is purged and desorbed into a GC/MS system. Volatiles are then identified and quantitated.

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 40316 **Site:** Bldg. 2567

	Date	Hold Time
Date Sampled	04/30/04	NA
Receipt/Refrigeration	04/30/04	NA

Analyses

1. VOA	05/06,07/04	14 days

CONFORMANCE/ NON-CONFORMANCE SUMMARY

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

	Indicate Yes, No, N/A
1. Chromatograms labeled/Compounds identified (Field samples and method blanks)	yes
2. Retention times for chromatograms provided	yes
3. GC/MS Tune Specifications	
a. BFB Meet Criteria	yes
b. DFTPP Meet Criteria	NA
4. GC/MS Tuning Frequency – Performed every 24 hours for 600 series and 12 hours for 8000 series	yes
5. GC/MS Calibration – Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series	yes
6. GC/MS Calibration requirements	
a. Calibration Check Compounds Meet Criteria	yes
b. System Performance Check Compounds Meet Criteria	yes
7. Blank Contamination – If yes, List compounds and concentrations in each blank:	yes
a. VOA Fraction Chloroform 0.94 ppb	
b. B/N Fraction NA	
c. Acid Fraction NA	
8. Surrogate Recoveries Meet Criteria	yes
If not met, list those compounds and their recoveries, which fall outside the acceptable range:	
a. VOA Fraction	
b. B/N Fraction NA	
c. Acid Fraction NA	
If not met, were the calculations checked and the results qualified as "estimated"?	
9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries, which fall outside the acceptable range)	yes
a. VOA Fraction	
b. B/N Fraction NA	
c. Acid Fraction NA	

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (cont.)

Indicate
Yes, No, N/A

10. Internal Standard Area/Retention Time Shift Meet Criteria — yes
(If not met, list those compounds, which fall outside the acceptable range)

a. VOA Fraction _____
b. B/N Fraction NA
c. Acid Fraction NA

11. Extraction Holding Time Met — NA

If not met, list the number of days exceeded for each sample: _____

12. Analysis Holding Time Met — yes

If not met, list the number of days exceeded for each sample: _____

Additional Comments:

Laboratory Manager: _____ Date: 5-19-04

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

U: The compound was analyzed for but not detected.

B: Indicates that the compound was found in the associated method blank as well as in the sample.

J: Indicates an estimated value. This flag is used:

(1) When the mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

(2) When estimating the concentration of a tentatively identified compound (TIC), where a 1:1 response is assumed.

D: This flag is used to identify all compounds (target or TIC) that required a dilution.

E: Indicates the compound's concentration exceeds the calibration range of the instrument for that specific analysis.

N: This flag is only used for TICs. It indicates the presumptive evidence of a compound. For a generic characterization of a TIC, such as unknown hydrocarbon, the flag is not used.

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB016409.D	Sample Name	MB 06May04
Operator	Skelton	Field ID	MB 06May04
Date Acquired	6 May 2004 5:18 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform	16.67	29136	0.94 ug/L	6	0.32 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MB 06May04**

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40316 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: MB 06May04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB016409.D

Level: (low/med) LOW Date Received: 4/30/2004

% Moisture: not dec. Date Analyzed: 5/6/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**VB016431.D**	Sample Name	**4031601**
Operator	**Skelton**	Field ID	**Trip Blank**
Date Acquired	**7 May 2004 7:03 am**	Sample Multiplier	**1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform	16.68	60557	1.90 ug/L	6	0.32 ug/L	2.00 ug/L	B
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip**

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40316 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4031601

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB016431.D

Level: (low/med) LOW Date Received: 4/30/2004

% Moisture: not dec. Date Analyzed: 5/7/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB016432.D	Sample Name	4031602
Operator	Skelton	Field ID	Field Blank
Date Acquired	7 May 2004 7:40 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform	16.67	64804	2.05 ug/L	6	0.32 ug/L	2.00 ug/L	B
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40316 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4031602

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB016432.D

Level: (low/med) LOW Date Received: 4/30/2004

% Moisture: not dec. Date Analyzed: 5/7/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB016433.D	Sample Name	4031603
Operator	Skelton	Field ID	W1
Date Acquired	7 May 2004 8:17 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	12.82	136534	3.37 ug/L	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **W1**

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40316 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4031603

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB016433.D

Level: (low/med) LOW Date Received: 4/30/2004

% Moisture: not dec. Date Analyzed: 5/7/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB016434.D	Sample Name	4031604
Operator	Skelton	Field ID	W2
Date Acquired	7 May 2004 8:54 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	12.80	131383	3.29 ug/L	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **W2**

Lab Name: FMETL NJDEP#: 13461

Project: _____ Case No.: 40316 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4031604

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB016434.D

Level: (low/med) LOW Date Received: 4/30/2004

% Moisture: not dec. _____ Date Analyzed: 5/7/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB016435.D	Sample Name	4031605
Operator	Skelton	Field ID	Dupe
Date Acquired	7 May 2004 9:31 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	12.80	122080	2.98 ug/L	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Dupe**

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40316 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4031605

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB016435.D

Level: (low/med) LOW Date Received: 4/30/2004

% Moisture: not dec. Date Analyzed: 5/7/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB016436.D	Sample Name	4031606
Operator	Skelton	Field ID	W3
Date Acquired	7 May 2004 10:09 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether	12.84	48622	1.20 ug/L	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **W3**

Lab Name: FMETL NJDEP#: 13461

Project: _____ Case No.: 40316 Location: 2567 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4031606

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB016436.D

Level: (low/med) LOW Date Received: 4/30/2004

% Moisture: not dec. _____ Date Analyzed: 5/7/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VB016437.D	Sample Name	4031607
Operator	Skelton	Field ID	W4
Date Acquired	7 May 2004 10:46 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
107028	Acrolein			not detected	50	3.27 ug/L	20.00 ug/L	
107131	Acrylonitrile			not detected	50	2.82 ug/L	20.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	2.78 ug/L	20.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.29 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.32 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	0.32 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	30	0.39 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	0.40 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.40 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.34 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.31 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.33 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	700	0.40 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.30 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.35 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.34 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.35 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.86 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.28 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	10	0.29 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	6	0.32 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.29 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.27 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.30 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.29 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.28 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.27 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.25 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.19 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.19 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.27 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.34 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.26 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.29 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.21 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	10	0.23 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.32 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.30 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.63 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.29 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.22 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.21 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.26 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.33 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.33 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.31 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **W4**

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40316 Location: 2567 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 4031607

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB016437.D

Level: (low/med) LOW Date Received: 4/30/2004

% Moisture: not dec. Date Analyzed: 5/7/2004

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40316 Location: 2567 SDG No.:

Lab File ID: VB016402.D BFB Injection Date: 5/6/2004

Instrument ID: GCMS#2 BFB Injection Time: 12:57

GC Column: RTX502.2 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.2
75	30.0 - 66.0% of mass 95	57.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	79.2
175	4.0 - 9.0% of mass 174	5.9 (7.4)1
176	93.0 - 101.0% of mass 174	76.3 (96.4)1
177	5.0 - 9.0% of mass 176	5.2 (6.9)2

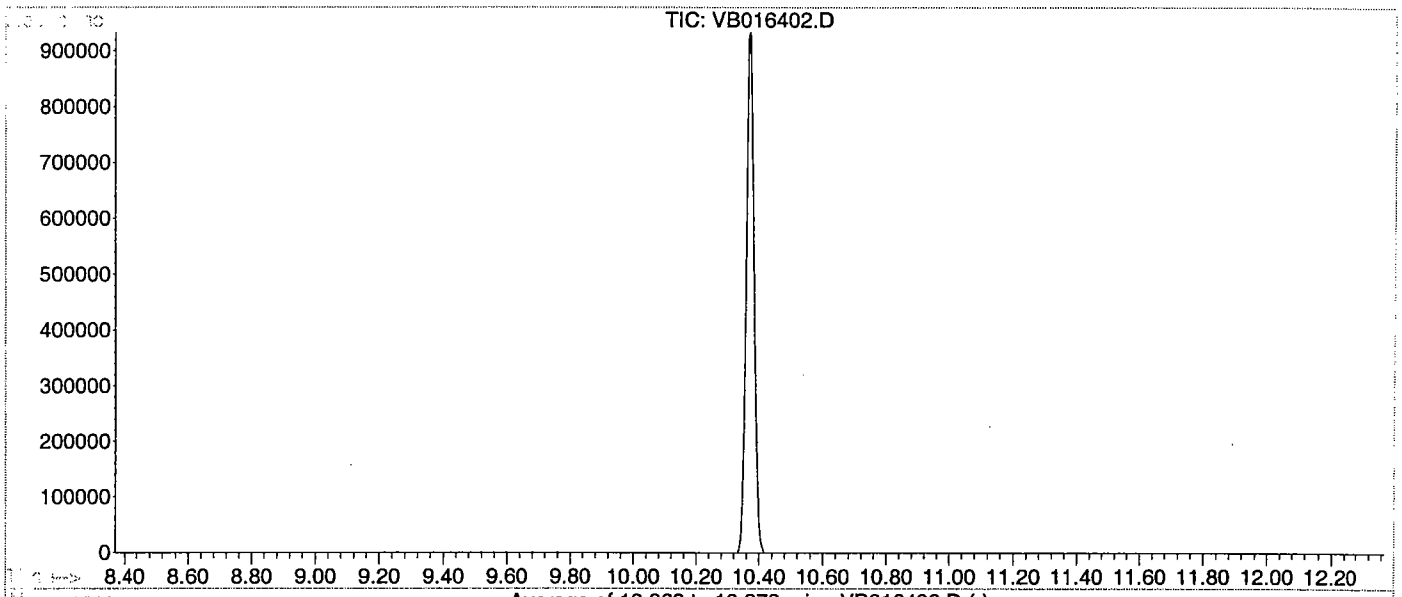
1-Value is % mass 174 2-Value is % mass 176

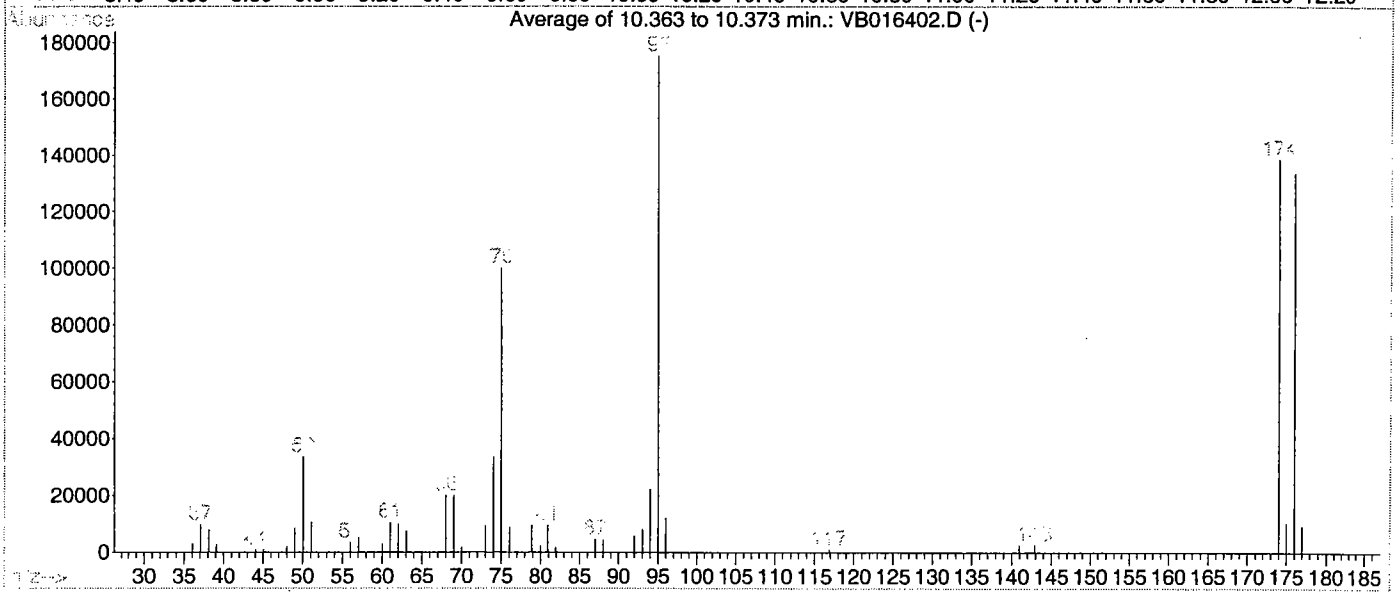
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	FIELD ID:	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	VB016403.D	5/6/2004	13:29
02	VSTD005	VSTD005	VB016404.D	5/6/2004	14:06
03	VSTD002	VSTD002	VB016405.D	5/6/2004	14:43
04	VSTD050	VSTD050	VB016406.D	5/6/2004	15:25
05	VSTD020	VSTD020	VB016407.D	5/6/2004	16:03
06	MB 06MAY04	MB 06MAY04	VB016409.D	5/6/2004	17:18
07	TRIP	4031601	VB016431.D	5/7/2004	7:03
08	FIELD BLANK	4031602	VB016432.D	5/7/2004	7:40
09	W1	4031603	VB016433.D	5/7/2004	8:17
10	W2	4031604	VB016434.D	5/7/2004	8:54
11	DUPE	4031605	VB016435.D	5/7/2004	9:31
12	W3	4031606	VB016436.D	5/7/2004	10:09
13	W4	4031607	VB016437.D	5/7/2004	10:46

BFB

Data File : C:\HPCHEM\1\DATA\040506\VB016402.D Vial: 1
Acq On : 6 May 2004 12:57 pm Operator: Skelton
Sample : BFB Tune Inst : GC/MS Ins
Misc : BFB Tune Multiplr: 1.00
MS Integration Params: GAS8.P
Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP





AutoFind: Scans 162, 163, 164; Background Corrected with Scan 154

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	33581	PASS
75	95	30	60	57.1	100008	PASS
95	95	100	100	100.0	175211	PASS
96	95	5	9	6.8	11930	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.2	138680	PASS
175	174	5	9	7.4	10278	PASS
176	174	95	101	96.4	133635	PASS
177	176	5	9	6.9	9188	PASS

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration

Calibration Files
50 =VB016406.D 20 =VB016407.D 10 =VB016403.D
5 =VB016404.D 2 =VB016405.D

		Compound	50	20	10	5	2	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------						
2)	t	Acrolein	0.216	0.234	0.166	0.180	0.216	0.203	13.92
3)	t	Acrylonitrile	0.680	0.731	0.653	0.720	0.873	0.731	11.65
4)	t	tert-Butyl alcohol	0.205	0.222	0.191	0.205	0.271	0.219	14.27
5)	t	Methyl-tert-Butyl eth	5.650	6.059	4.932	5.304	6.667	5.723	11.76
6)	t	Di-isopropyl ether	1.762	1.941	1.604	1.714	2.012	1.807	9.25
7)	T	Dichlorodifluorometha	2.675	2.760	3.030	3.195	3.427	3.017	10.25
8)	TP	Chloromethane	1.517	1.546	1.458	1.634	2.002	1.631	13.27
9)	TC	Vinyl Chloride	1.669	2.003	1.627	1.855	2.145	1.860	11.78
10)	T	Bromomethane	1.581	1.673	1.479	1.664	1.966	1.673	10.87
11)	T	Chloroethane	0.895	0.980	0.826	0.930	0.961	0.918	6.63
12)	T	Trichlorofluoromethan	4.986	5.271	5.197	5.463	6.151	5.414	8.24
13)	MC	1,1-Dichloroethene	2.722	2.997	2.404	2.581	3.197	2.780	11.44
14)	T	Acetone	0.431	0.621	0.779	1.213	3.107	1.230	88.46
15)	T	Carbon Disulfide	5.560	5.614	5.205	5.290	5.730	5.480	4.07
16)	T	Methylene Chloride	2.241	2.573	2.246	2.680	4.198	2.788	29.13
17)	T	trans-1,2-Dichloroeth	2.506	2.789	2.229	2.455	3.124	2.620	13.16
18)	TP	1,1-Dichloroethane	3.123	3.541	2.886	3.168	4.047	3.353	13.52
19)	T	Vinyl Acetate	2.570	2.662	2.049	2.170	2.732	2.437	12.61
20)	T	2-Butanone	0.513	0.551	0.460	0.496	0.644	0.533	13.17
21)	T	cis-1,2-Dichloroethen	2.565	2.787	2.269	2.438	3.025	2.617	11.33
22)	TC	Chloroform	4.050	4.552	3.817	4.228	5.499	4.429	14.80
23)	T	1,1,1-Trichloroethane	4.048	4.318	3.707	3.905	4.511	4.098	7.83
24)	T	Carbon Tetrachloride	3.862	4.004	3.431	3.557	4.119	3.795	7.71
25)	S	1,2-Dichloroethane-d4	2.877	3.230	2.740	3.057	3.947	3.170	14.88
26)	I	1,4-Difluorobenzene	----------ISTD----------						
27)	TM	Benzene	1.166	1.187	1.152	1.209	1.404	1.224	8.42
28)	T	1,2-Dichloroethane	0.436	0.440	0.438	0.459	0.547	0.464	10.19
29)	TM	Trichloroethene	0.369	0.366	0.347	0.361	0.427	0.374	8.21
30)	TC	1,2-Dichloropropane	0.229	0.230	0.218	0.236	0.277	0.238	9.57
31)	T	Bromodichloromethane	0.417	0.391	0.393	0.401	0.470	0.414	7.95
32)	T	2-Chloroethyl vinyl e	0.177	0.164	0.152	0.154	0.182	0.166	8.12
33)	T	cis-1,3-Dichloroprope	0.454	0.438	0.397	0.402	0.453	0.429	6.36
34)	T	4-Methyl-2-Pentanone	0.082	0.074	0.075	0.072	0.090	0.078	9.31
35)	S	Toluene-d8	1.313	1.204	1.247	1.248	1.383	1.279	5.47
36)	TCM	Toluene	1.514	1.416	1.520	1.523	1.659	1.526	5.68
37)	I	Chlorobenzene-d5	----------ISTD----------						
38)	T	trans-1,3-Dichloropro	1.585	1.564	1.352	1.339	1.522	1.472	8.02
39)	T	1,1,2-Trichloroethane	0.947	0.988	0.948	0.997	1.241	1.024	12.05
40)	T	Tetrachloroethene	1.451	1.416	1.383	1.410	1.553	1.443	4.58
41)	T	2-Hexanone	0.369	0.356	0.328	0.328	0.425	0.361	11.02
42)	T	Dibromochloromethane	1.129	1.110	0.993	1.025	1.213	1.094	7.98
43)	TMP	Chlorobenzene	3.648	3.563	3.559	3.724	4.425	3.784	9.64
44)	TC	Ethylbenzene	5.910	5.833	5.691	5.766	6.601	5.960	6.16
45)	T	m+p-Xylenes	2.259	2.153	2.048	2.001	2.254	2.143	5.47
46)	T	o-Xylene	4.485	4.315	4.034	3.792	4.239	4.173	6.41
47)	T	Styrene	3.600	3.395	3.194	3.096	3.470	3.351	6.11
48)	TP	Bromoform	0.886	0.806	0.753	0.743	0.836	0.805	7.40
49)	S	Bromofluorobenzene	1.794	1.689	1.607	1.568	1.819	1.696	6.53
50)	TP	1,1,2,2-Tetrachloroet	1.332	1.320	1.310	1.312	1.608	1.376	9.42
51)	T	1,3-Dichlorobenzene	2.908	2.688	2.488	2.507	2.985	2.715	8.36
52)	T	1,4-Dichlorobenzene	3.056	2.859	2.653	2.652	3.062	2.856	7.11
53)	T	1,2-Dichlorobenzene	2.726	2.555	2.332	2.378	2.771	2.552	7.76

(#) = Out of Range

4A

VOLATILE METHOD BLANK SUMMARY

FIELD ID: **MB 06May04**

Lab Name: FMETL NJDEP#: 13461

Project: . Case No.: 40316 Location: 2567 SDG No.:

Lab File ID: VB016409.D Lab Sample ID: MB 06May04

Date Analyzed: 5/6/2004 Time Analyzed: 17:18

GC Column: RTX502. ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS#2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	FIELD ID:	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TRIP	4031601	VB016431.D	7:03
02	FIELD BLANK	4031602	VB016432.D	7:40
03	W1	4031603	VB016433.D	8:17
04	W2	4031604	VB016434.D	8:54
05	DUPE	4031605	VB016435.D	9:31
06	W3	4031606	VB016436.D	10:09
07	W4	4031607	VB016437.D	10:46

COMMENTS:

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: FMETL NJDEP#: 13461

Project: _____ Case No.: 40316 Location: 2567 SDG No.: _____

	FIELD ID:	SMC1 DCE #	SMC2 TOL #	SMC3 BFB #	TOT OUT
01	MB 06MAY04	85	84	81	0
02	TRIP	82	83	82	0
03	FIELD BLANK	82	83	81	0
04	W1	83	83	83	0
05	W2	83	85	83	0
06	DUPE	80	84	81	0
07	W3	81	85	82	0
08	W4	82	84	84	0

				QC LIMITS
SMC1	DCE	=	1,2-Dichloroethane-d4	(70-125)
SMC2	TOL	=	Toluene-d8	(70-125)
SMC3	BFB	=	Bromofluorobenzene	(70-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

spike

Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration

Non-Spiked Sample: 4028505

	Spike Sample	Spike Duplicate Sample
File ID :	VB016414.D	VB016415.D
Sample :	4028505 MS	4028505 MSD
Acq Time:	6 May 2004 8:25 pm	6 May 2004 9:03 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	10	10	10	98	98	0	22	59-172
Benzene	0.0	10	10	10	95	95	0	21	66-142
Trichloroethene	0.0	10	9	9	91	91	0	24	62-137
Toluene	0.0	10	9	9	90	92	2	21	59-139
Chlorobenzene	0.0	10	9	9	92	91	0	21	60-133

- Fails Limit Check

M2VOA77.M Wed May 19 13:49:43 2004

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FMETL NJDEP#: 13461

Project: Case No.: 40316 Location: 2567 SDG No.:

Lab File ID (Standard): VB016403.D Date Analyzed: 5/6/2004

Instrument ID: GCMS#2 Time Analyzed: 13:29

GC Column: RTX502.2 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1BCM AREA #	RT #	IS2DFB AREA #	RT #	IS3CBZ AREA #	RT #
	12 HOUR STD	232557	16.44	1655195	19.64	499294	25.66
	UPPER LIMIT	465114	16.94	3310390	20.14	998588	26.16
	LOWER LIMIT	116279	15.94	827598	19.14	249647	25.16
	FIELD ID:						
01	MB 06MAY04	209422	16.44	1686137	19.65	491392	25.67
02	TRIP	215882	16.45	1581318	19.65	448990	25.67
03	FIELD BLANK	214338	16.45	1568022	19.65	443751	25.67
04	W1	212682	16.45	1558433	19.65	439690	25.67
05	W2	209436	16.45	1509973	19.65	431131	25.66
06	DUPE	214857	16.45	1507730	19.65	432803	25.67
07	W3	212264	16.45	1497826	19.65	430213	25.67
08	W4	204567	16.45	1431289	19.65	410362	25.66

IS1 BCM = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040506\VB016409.D Vial: 7
Acq On : 6 May 2004 5:18 pm Operator: Skelton
Sample : MB 06May04 Inst : GC/MS Ins
Misc : MB 06May04 Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 19 13:35 2004 Quant Results File: M2VOA77.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA77

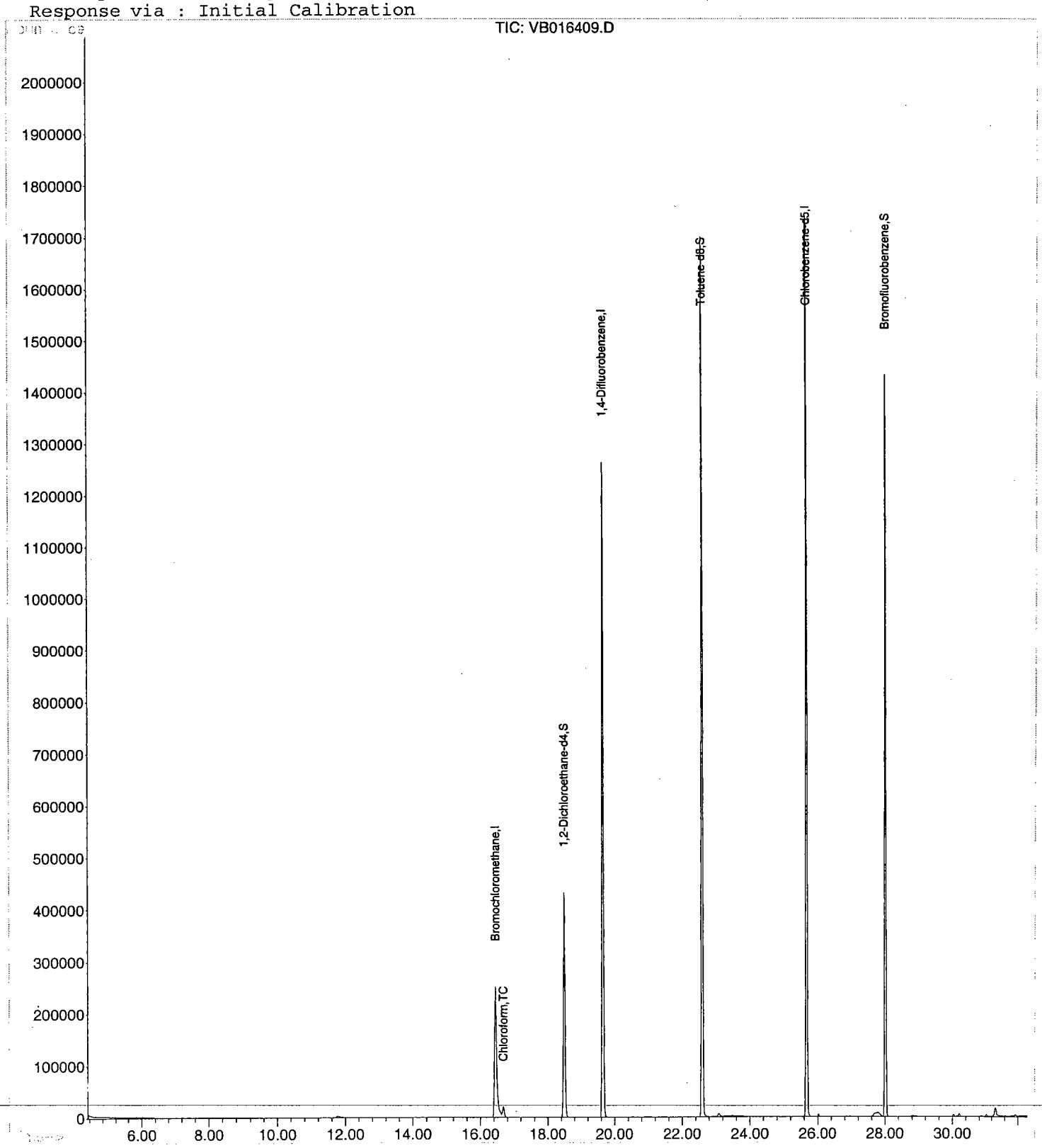
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	16.44	128	209422	30.00 ug/L	0.00
26) 1,4-Difluorobenzene	19.65	114	1686137	30.00 ug/L	0.00
37) Chlorobenzene-d5	25.67	119	491392	30.00 ug/L	0.00
System Monitoring Compounds					
25) 1,2-Dichloroethane-d4	18.48	65	566204	25.59 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery =	85.30%	
35) Toluene-d8	22.59	98	1801244	25.06 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery =	83.53%	
49) Bromofluorobenzene	28.01	95	672751	24.22 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery =	80.73%	
Target Compounds					Qvalue
22) Chloroform	16.67	83	29136	0.94 ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040506\VB016409.D Vial: 7
Acq On : 6 May 2004 5:18 pm Operator: Skelton
Sample : MB 06May04 Inst : GC/MS Ins
Misc : MB 06May04 Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 19 13:35 2004 Quant Results File: M2VOA77.RES

Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040506\VB016431.D Vial: 26
Acq On : 7 May 2004 7:03 am Operator: Skelton
Sample : 4031601 Inst : GC/MS Ins
Misc : Trip Blank Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 7 8:10 2004 Quant Results File: M2VOA77.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA77

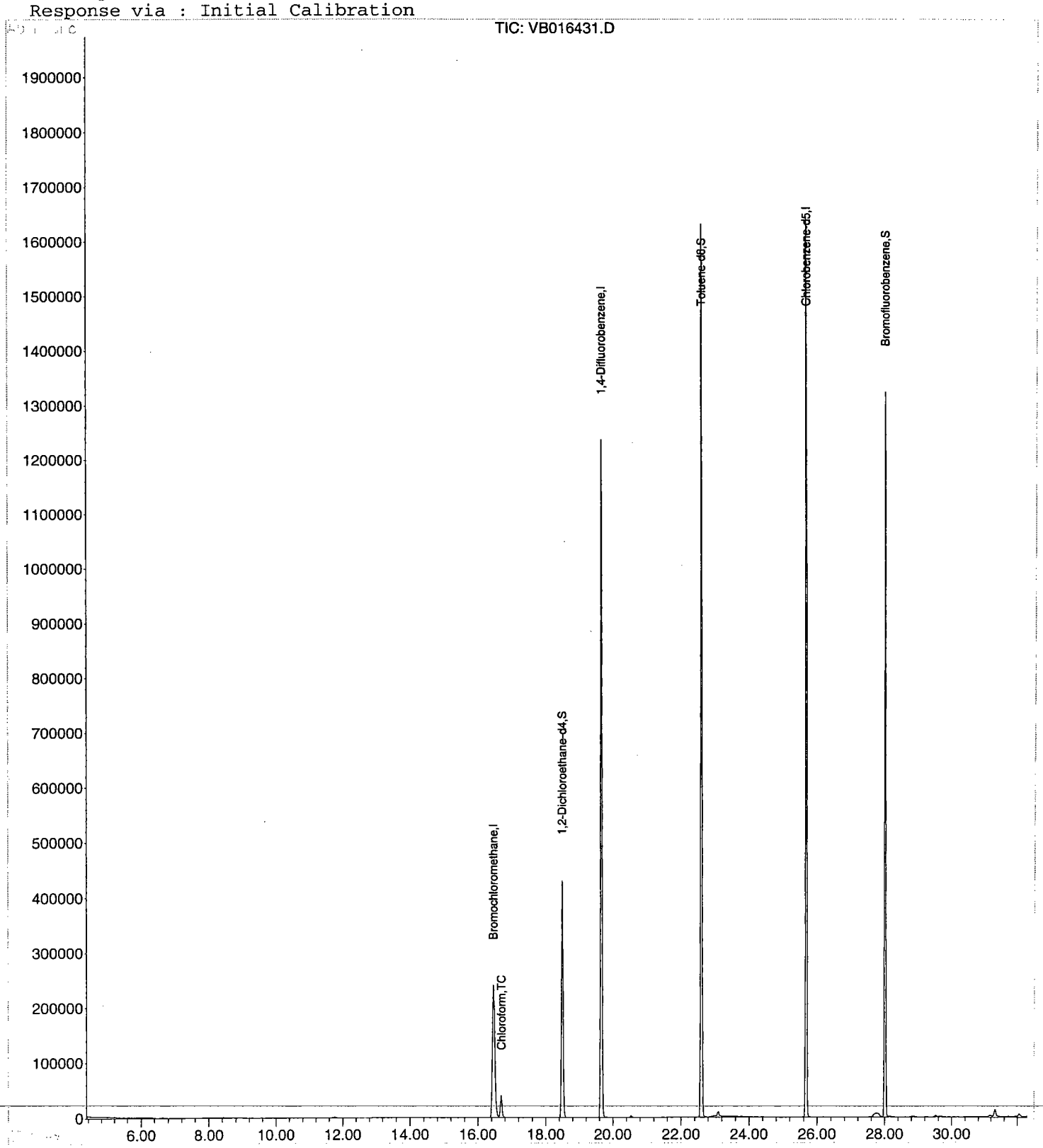
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	16.45	128	215882	30.00 ug/L	0.01
26) 1,4-Difluorobenzene	19.65	114	1581318	30.00 ug/L	0.01
37) Chlorobenzene-d5	25.67	119	448990	30.00 ug/L	0.01
System Monitoring Compounds					
25) 1,2-Dichloroethane-d4	18.48	65	560952	24.59 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 81.97%		
35) Toluene-d8	22.59	98	1676825	24.88 ug/L	0.01
Spiked Amount 30.000	Range 70 - 125		Recovery = 82.93%		
49) Bromofluorobenzene	28.01	95	627791	24.74 ug/L	0.01
Spiked Amount 30.000	Range 70 - 125		Recovery = 82.47%		
Target Compounds					Qvalue
22) Chloroform	16.68	83	60557	1.90 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040506\VB016431.D Vial: 26
Acq On : 7 May 2004 7:03 am Operator: Skelton
Sample : 4031601 Inst : GC/MS Ins
Misc : Trip Blank Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 7 8:10 2004 Quant Results File: M2VOA77.RES

Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040506\VB016432.D Vial: 27
Acq On : 7 May 2004 7:40 am Operator: Skelton
Sample : 4031602 Inst : GC/MS Ins
Misc : Field Blank Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 7 8:12 2004 Quant Results File: M2VOA77.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA77

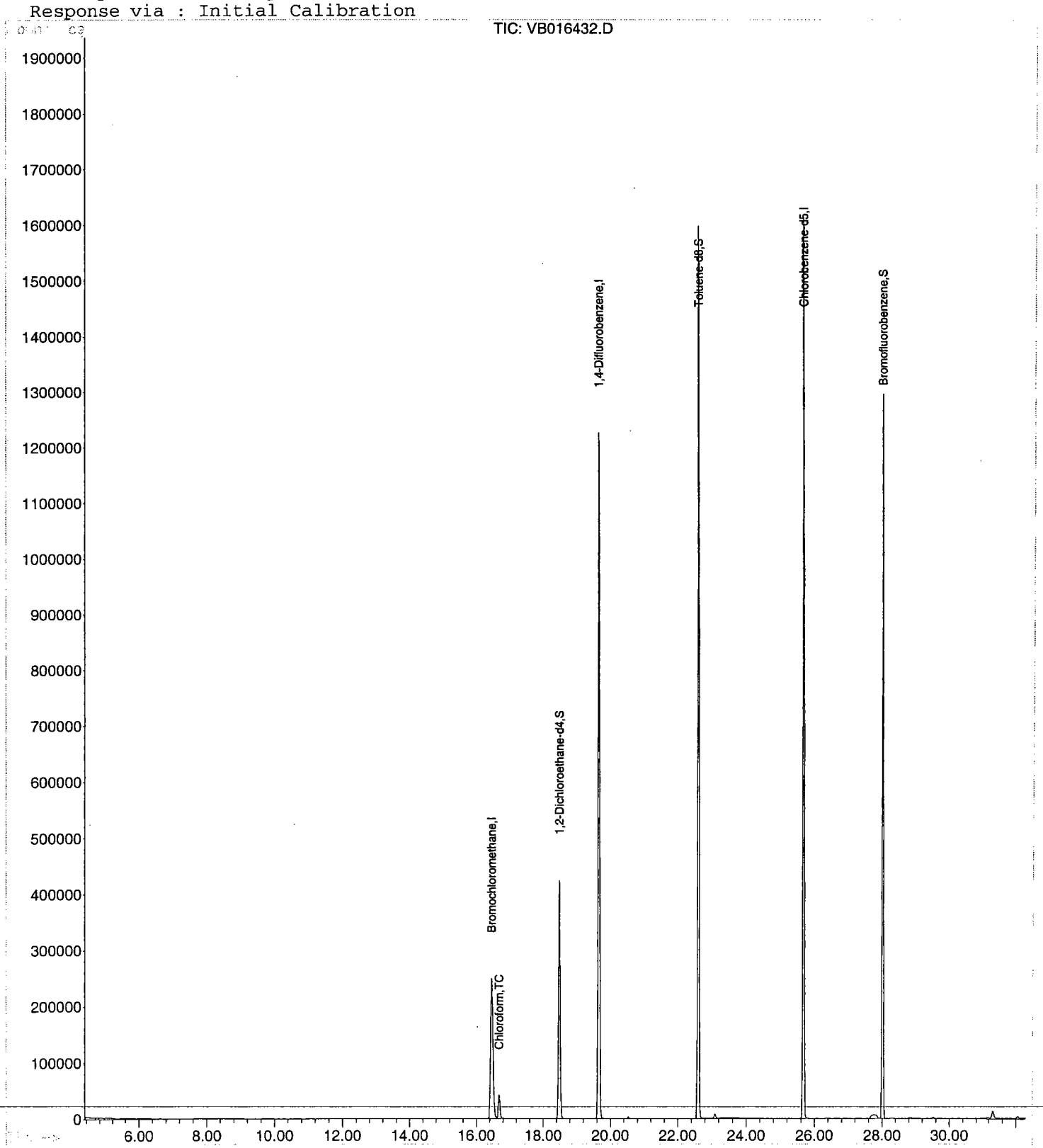
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	16.45	128	214338	30.00 ug/L	0.00
26) 1,4-Difluorobenzene	19.65	114	1568022	30.00 ug/L	0.00
37) Chlorobenzene-d5	25.67	119	443751	30.00 ug/L	0.00
System Monitoring Compounds					
25) 1,2-Dichloroethane-d4	18.48	65	554998	24.50 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 81.67%		
35) Toluene-d8	22.59	98	1657554	24.80 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 82.67%		
49) Bromofluorobenzene	28.00	95	611771	24.39 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 81.30%		
Target Compounds					Qvalue
22) Chloroform	16.67	83	64804	2.05 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040506\VB016432.D Vial: 27
Acq On : 7 May 2004 7:40 am Operator: Skelton
Sample : 4031602 Inst : GC/MS Ins
Misc : Field Blank Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 7 8:12 2004 Quant Results File: M2VOA77.RES

Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040506\VB016433.D Vial: 28
Acq On : 7 May 2004 8:17 am Operator: Skelton
Sample : 4031603 Inst : GC/MS Ins
Misc : W1 Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 7 8:50 2004 Quant Results File: M2VOA77.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA77

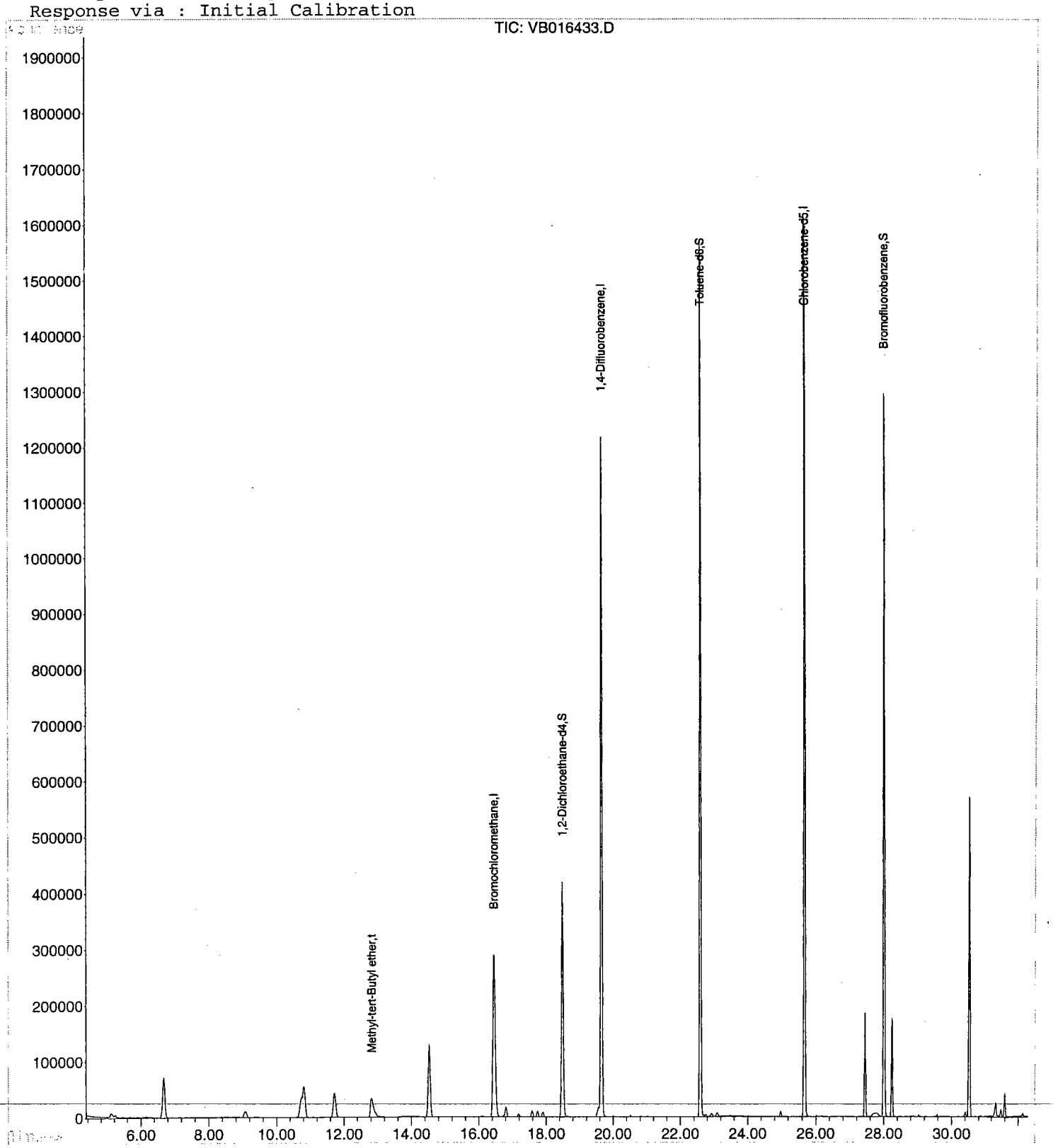
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	16.45	128	212682	30.00 ug/L	0.01
26) 1,4-Difluorobenzene	19.65	114	1558433	30.00 ug/L	0.01
37) Chlorobenzene-d5	25.67	119	439690	30.00 ug/L	0.01
System Monitoring Compounds					
25) 1,2-Dichloroethane-d4	18.48	65	558231	24.84 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 82.80%		
35) Toluene-d8	22.59	98	1646104	24.78 ug/L	0.01
Spiked Amount 30.000	Range 70 - 125		Recovery = 82.60%		
49) Bromofluorobenzene	28.00	95	620326	24.96 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 83.20%		
Target Compounds					Qvalue
5) Methyl-tert-Butyl ether	12.82	73	136534	3.37 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040506\VB016433.D Vial: 28
Acq On : 7 May 2004 8:17 am Operator: Skelton
Sample : 4031603 Inst : GC/MS Ins
Misc : W1 Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 7 8:50 2004 Quant Results File: M2VOA77.RES

Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040506\VB016434.D Vial: 29
Acq On : 7 May 2004 8:54 am Operator: Skelton
Sample : 4031604 Inst : GC/MS Ins
Misc : W2 Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 7 9:27 2004 Quant Results File: M2VOA77.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA77

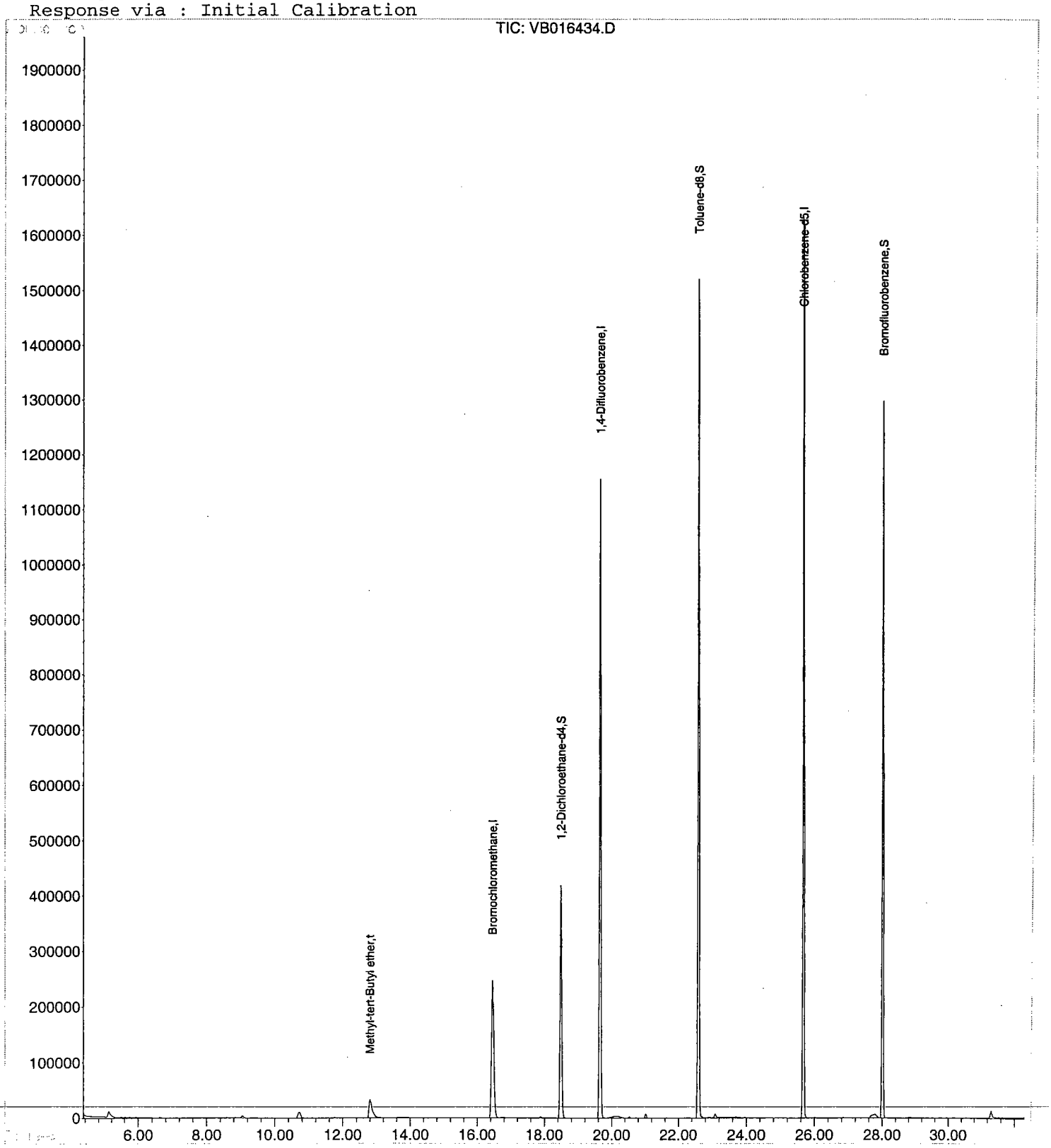
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.45	128	209436	30.00	ug/L	0.01
26) 1,4-Difluorobenzene	19.65	114	1509973	30.00	ug/L	0.01
37) Chlorobenzene-d5	25.66	119	431131	30.00	ug/L	0.00
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.48	65	552739	24.98	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 83.27%			
35) Toluene-d8	22.60	98	1631848	25.36	ug/L	0.01
Spiked Amount 30.000	Range 70 - 125		Recovery = 84.53%			
49) Bromofluorobenzene	28.00	95	606833	24.90	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 83.00%			
Target Compounds						Qvalue
5) Methyl-tert-Butyl ether	12.80	73	131383	3.29	ug/L #	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040506\VB016434.D Vial: 29
Acq On : 7 May 2004 8:54 am Operator: Skelton
Sample : 4031604 Inst : GC/MS Ins
Misc : W2 Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 7 9:27 2004 Quant Results File: M2VOA77.RES

Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040506\VB016435.D Vial: 30
Acq On : 7 May 2004 9:31 am Operator: Skelton
Sample : 4031605 Inst : GC/MS Ins
Misc : Dupe Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 7 10:04 2004 Quant Results File: M2VOA77.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA77

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.45	128	214857	30.00	ug/L	0.00
26) 1,4-Difluorobenzene	19.65	114	1507730	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.67	119	432803	30.00	ug/L	0.00
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.48	65	547449	24.11	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 80.37%			
35) Toluene-d8	22.59	98	1627786	25.33	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 84.43%			
49) Bromofluorobenzene	28.00	95	593816	24.28	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 80.93%			
Target Compounds						Qvalue
5) Methyl-tert-Butyl ether	12.80	73	122080	2.98	ug/L	93

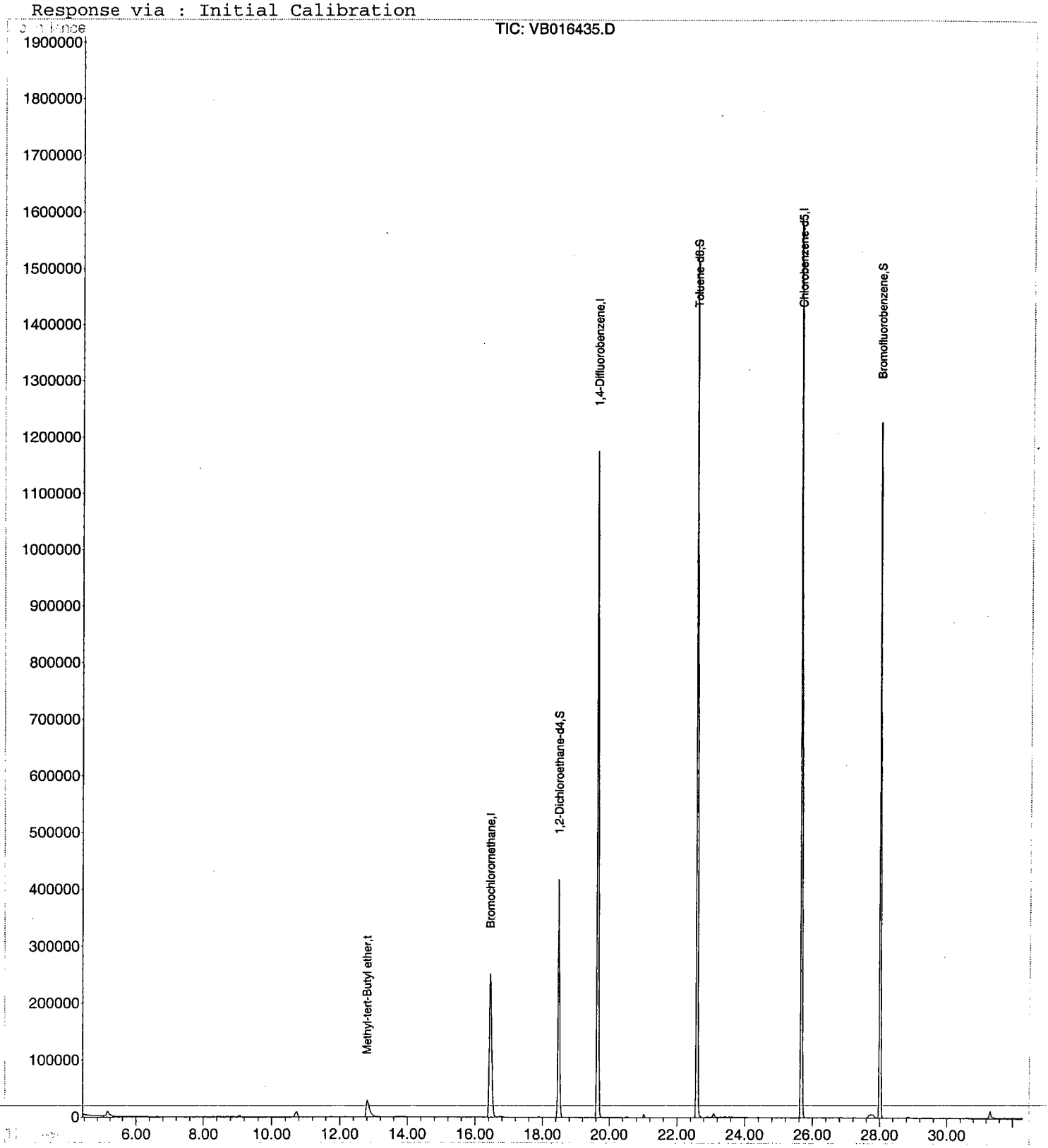
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040506\VB016435.D
Acq On : 7 May 2004 9:31 am
Sample : 4031605
Misc : Dupe
MS Integration Params: GAS8.P
Quant Time: May 7 10:04 2004

Vial: 30
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: M2VOA77.RES

Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040506\VB016436.D Vial: 31
Acq On : 7 May 2004 10:09 am Operator: Skelton
Sample : 4031606 Inst : GC/MS Ins
Misc : W3 Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 7 10:41 2004 Quant Results File: M2VOA77.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA77

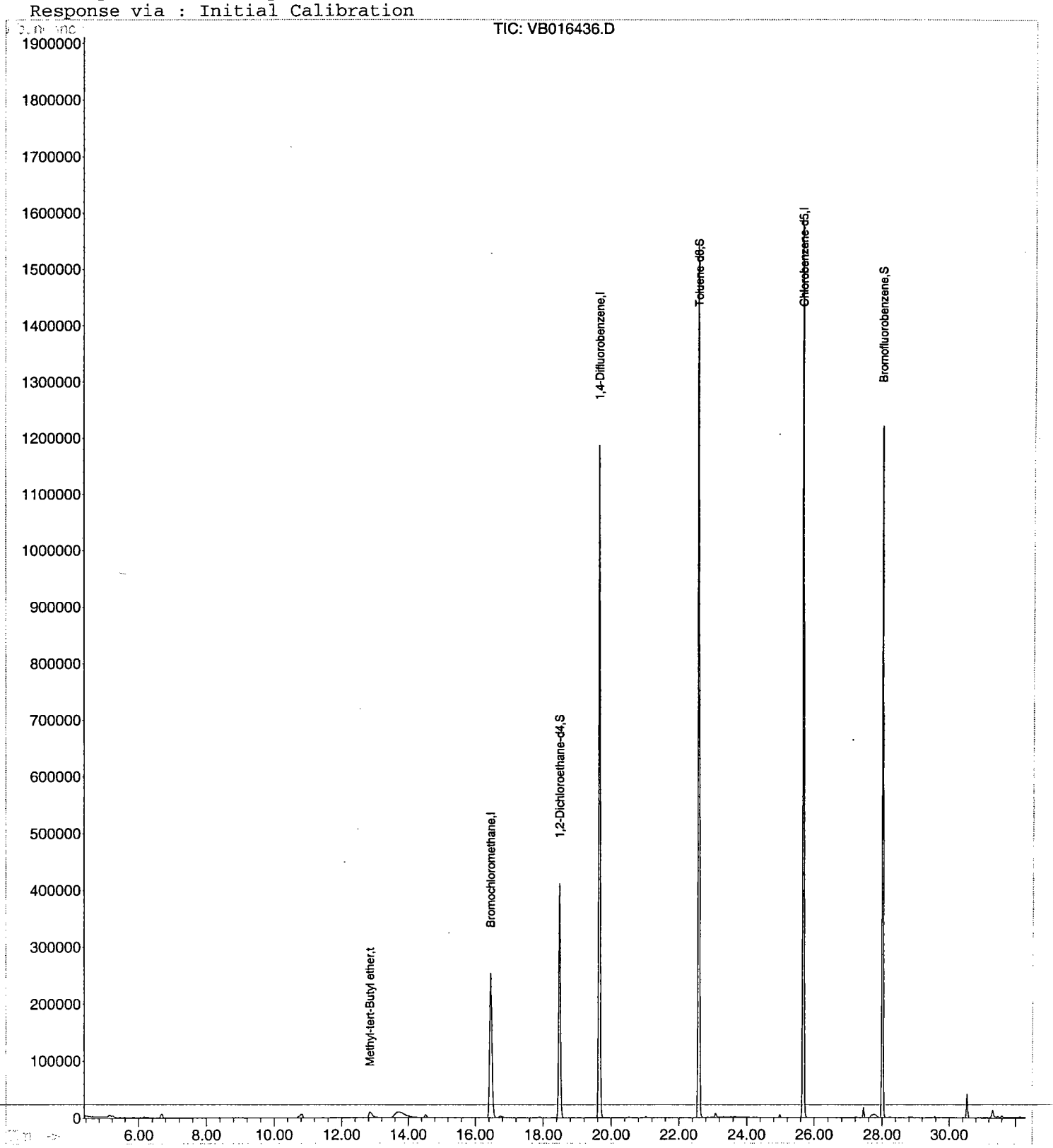
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	16.45	128	212264	30.00 ug/L	0.00
26) 1,4-Difluorobenzene	19.65	114	1497826	30.00 ug/L	0.00
37) Chlorobenzene-d5	25.67	119	430213	30.00 ug/L	0.00
System Monitoring Compounds					
25) 1,2-Dichloroethane-d4	18.48	65	543112	24.21 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 80.70%		
35) Toluene-d8	22.59	98	1621869	25.41 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 84.70%		
49) Bromofluorobenzene	28.00	95	595373	24.49 ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 81.63%		
Target Compounds					Qvalue
5) Methyl-tert-Butyl ether	12.84	73	48622	1.20 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040506\VB016436.D Vial: 31
Acq On : 7 May 2004 10:09 am Operator: Skelton
Sample : 4031606 Inst : GC/MS Ins
Misc : W3 Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 7 10:41 2004 Quant Results File: M2VOA77.RES

Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040506\VB016437.D Vial: 32
Acq On : 7 May 2004 10:46 am Operator: Skelton
Sample : 4031607 Inst : GC/MS Ins
Misc : W4 Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 7 11:18 2004 Quant Results File: M2VOA77.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration
DataAcq Meth : M2VOA77

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.45	128	204567	30.00	ug/L	0.00
26) 1,4-Difluorobenzene	19.65	114	1431289	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.66	119	410362	30.00	ug/L	0.00

System Monitoring Compounds

25) 1,2-Dichloroethane-d4	18.48	65	529696	24.50	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 81.67%			
35) Toluene-d8	22.59	98	1539167	25.23	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 84.10%			
49) Bromofluorobenzene	28.00	95	584204	25.19	ug/L	0.00
Spiked Amount 30.000	Range 70 - 125		Recovery = 83.97%			

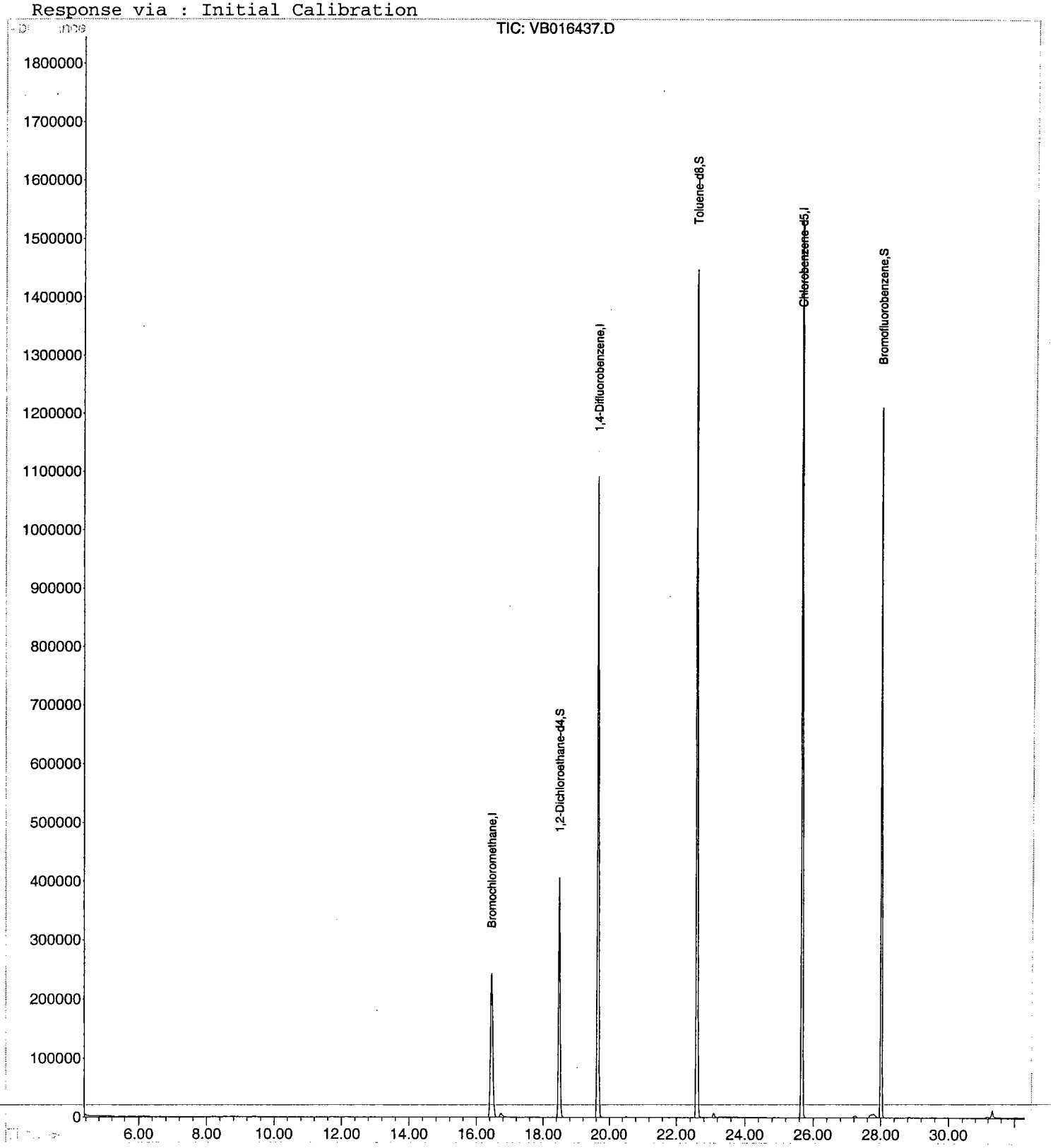
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040506\VB016437.D Vial: 32
Acq On : 7 May 2004 10:46 am Operator: Skelton
Sample : 4031607 Inst : GC/MS Ins
Misc : W4 Multiplr: 1.00
MS Integration Params: GAS8.P
Quant Time: May 7 11:18 2004 Quant Results File: M2VOA77.RES

Method : C:\HPCHEM\1\METHODS\M2VOA77.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri May 07 08:07:26 2004
Response via : Initial Calibration



LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package <u>and</u> in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature _____

Date: 5 / 19 / 02

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Daniel K. Wright
Laboratory Manager

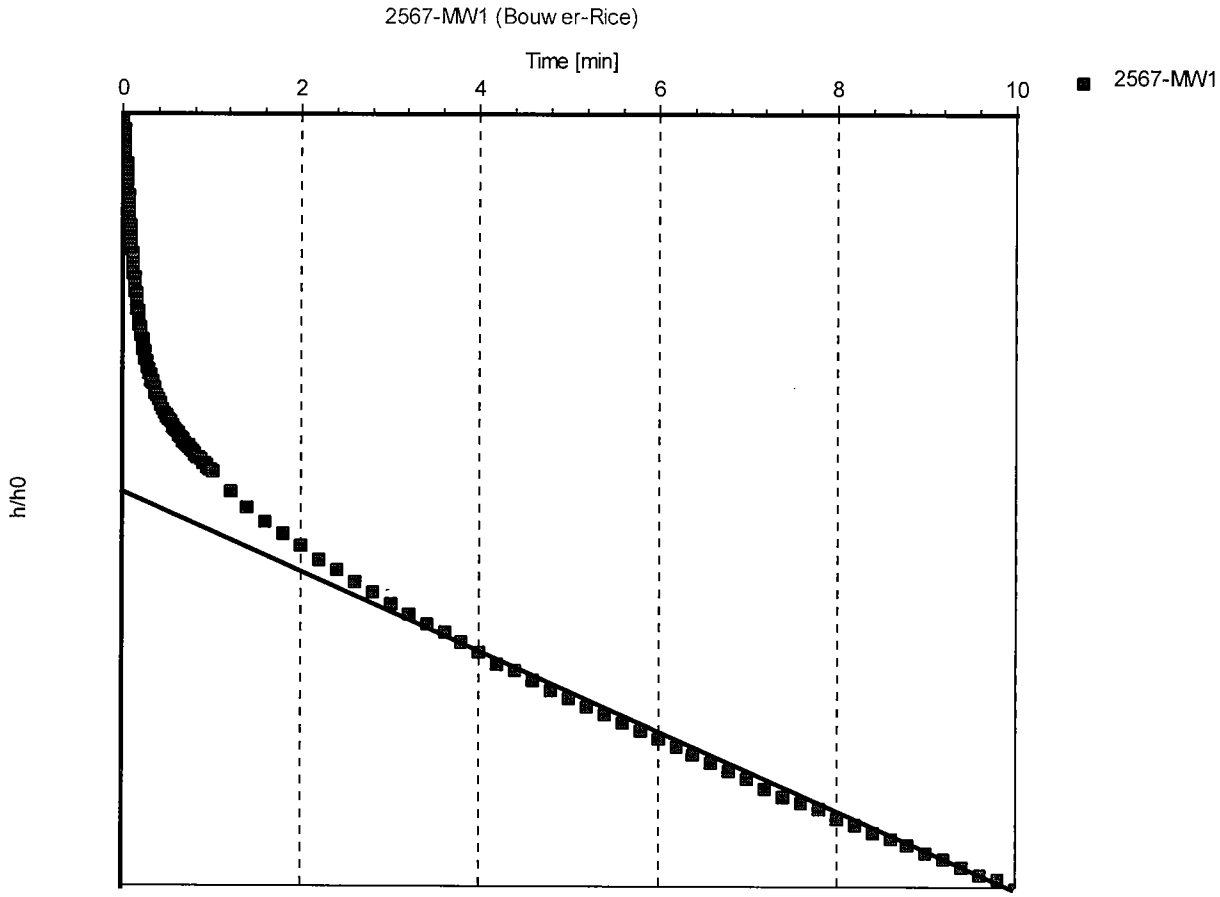
APPENDIX I

Slug Test Analyses and Raw Data

Waterloo Hydrogeologic, Inc.
180 Columbia St. Unit 1104
Waterloo, Ontario, Canada
Phone: +1 519 746 1798

Pumping Test Analysis Report

Project:	DO 19
No:	4936-119
Client:	Fort Monmouth



Test name: **2567-MW1**

Analysis method: **Bouwer-Rice**

Analysis results:

Conductivity: 3.51E+1 [ft/d]

Test parameters:

Test well:	2567-MW1	Aquifer thickness:	100 [ft]
Screen radius:	0.333 [ft]	Gravel pack Porosity (%)	25
Screen length:	3 [ft]		
Casing radius:	0.833 [ft]		
r(eff):	0.740 [ft]		

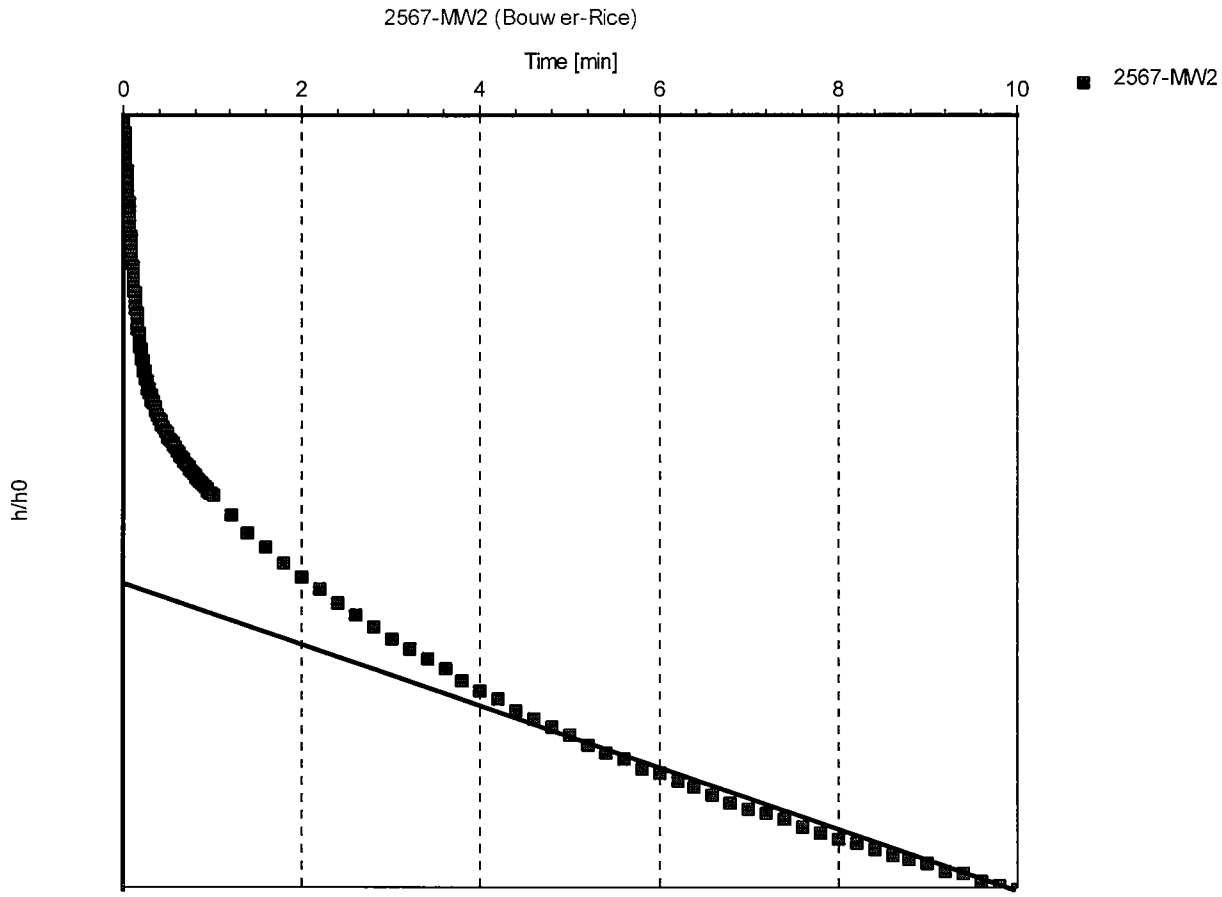
Comments:

Evaluated by: TJK/PS
Date: 8/17/01

Waterloo Hydrogeologic, Inc.
180 Columbia St. Unit 1104
Waterloo, Ontario, Canada
Phone: +1 519 746 1798

Pumping Test Analysis Report

Project:	DO 19
No:	4936-119
Client:	Fort Monmouth



Test name: **2567-MW2**

Analysis method: **Bouwer-Rice**

Analysis results:

Conductivity: 2.85E+1 [ft/d]

Test parameters:

Test well:	2567-MW2	Aquifer thickness:	100 [ft]
Screen radius:	0.333 [ft]	Gravel pack Porosity (%)	25
Screen length:	3 [ft]		
Casing radius:	0.833 [ft]		
r(eff):	0.740 [ft]		

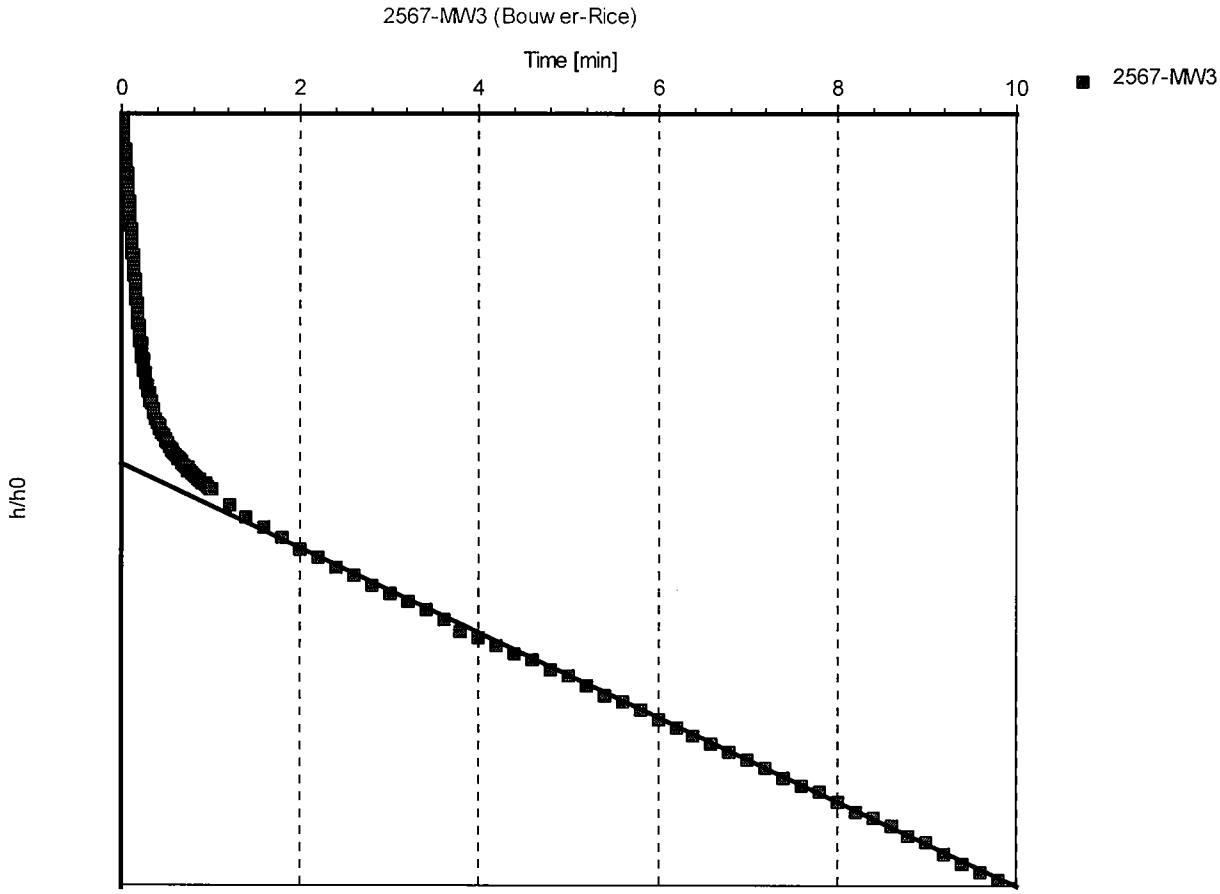
Comments:

Evaluated by: TJK/PS
Date: 8/17/01

Waterloo Hydrogeologic, Inc.
180 Columbia St. Unit 1104
Waterloo, Ontario, Canada
Phone: +1 519 746 1798

Pumping Test Analysis Report

Project:	DO 19
No:	4936-119
Client:	Fort Monmouth



Test name: **2567-MW3**

Analysis method: **Bouwer-Rice**

Analysis results:

Conductivity: 3.56E+1 [ft/d]

Test parameters:

Test well:	2567-MW3	Aquifer thickness:	100 [ft]
Screen radius:	0.333 [ft]	Gravel pack Porosity (%)	25
Screen length:	3 [ft]		
Casing radius:	0.833 [ft]		
r(eff):	0.740 [ft]		

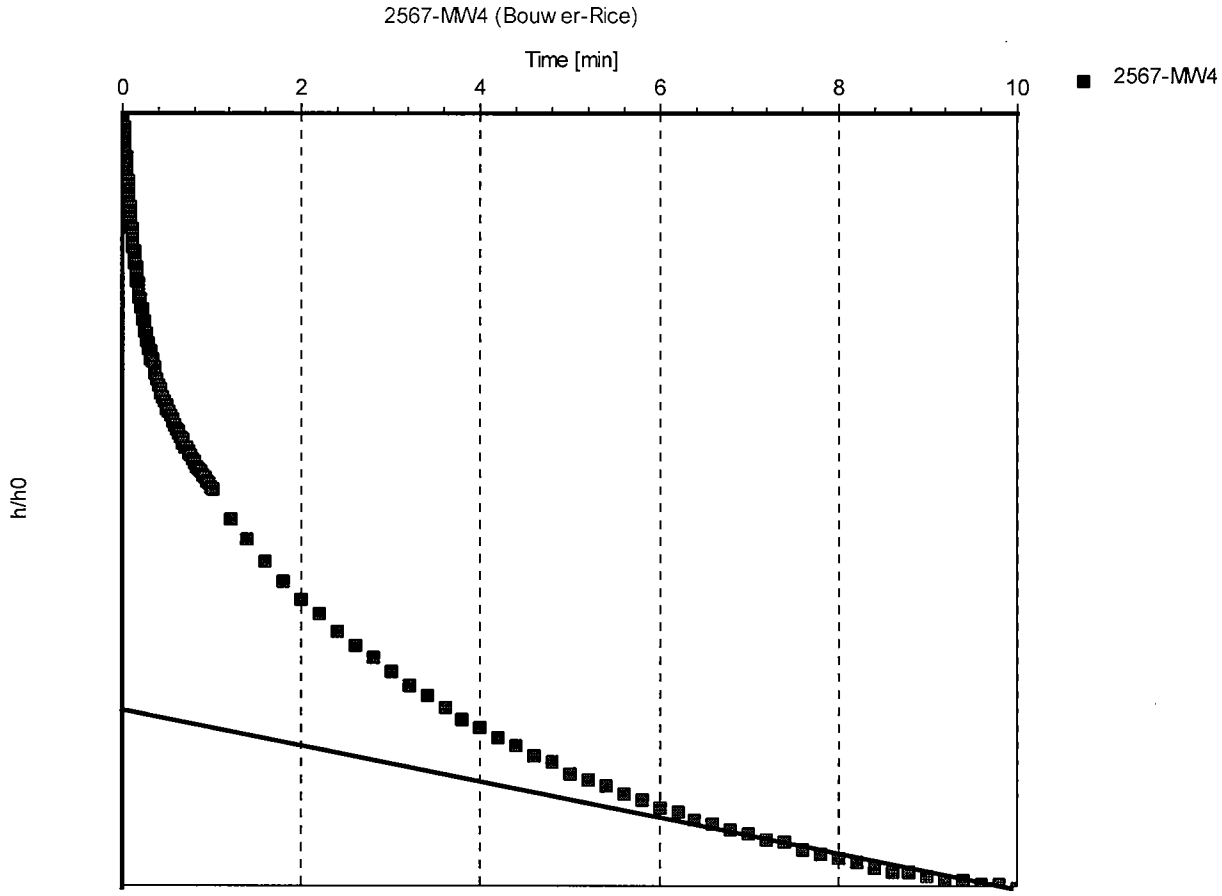
Comments:

Evaluated by: TJK/PS
Date: 8/17/01

Waterloo Hydrogeologic, Inc.
180 Columbia St. Unit 1104
Waterloo, Ontario, Canada
Phone: +1 519 746 1798

Pumping Test Analysis Report

Project:	DO 19
No:	4936-119
Client:	Fort Monmouth



Test name: **2567-MW4**

Analysis method: **Bouwer-Rice**

Analysis results:

Conductivity: 2.02E+1 [ft/d]

Test parameters:

Test well:	2567-MW4	Aquifer thickness:	100 [ft]
Screen radius:	0.333 [ft]	Gravel pack Porosity (%)	25
Screen length:	2 [ft]		
Casing radius:	0.833 [ft]		
r(eff):	0.740 [ft]		

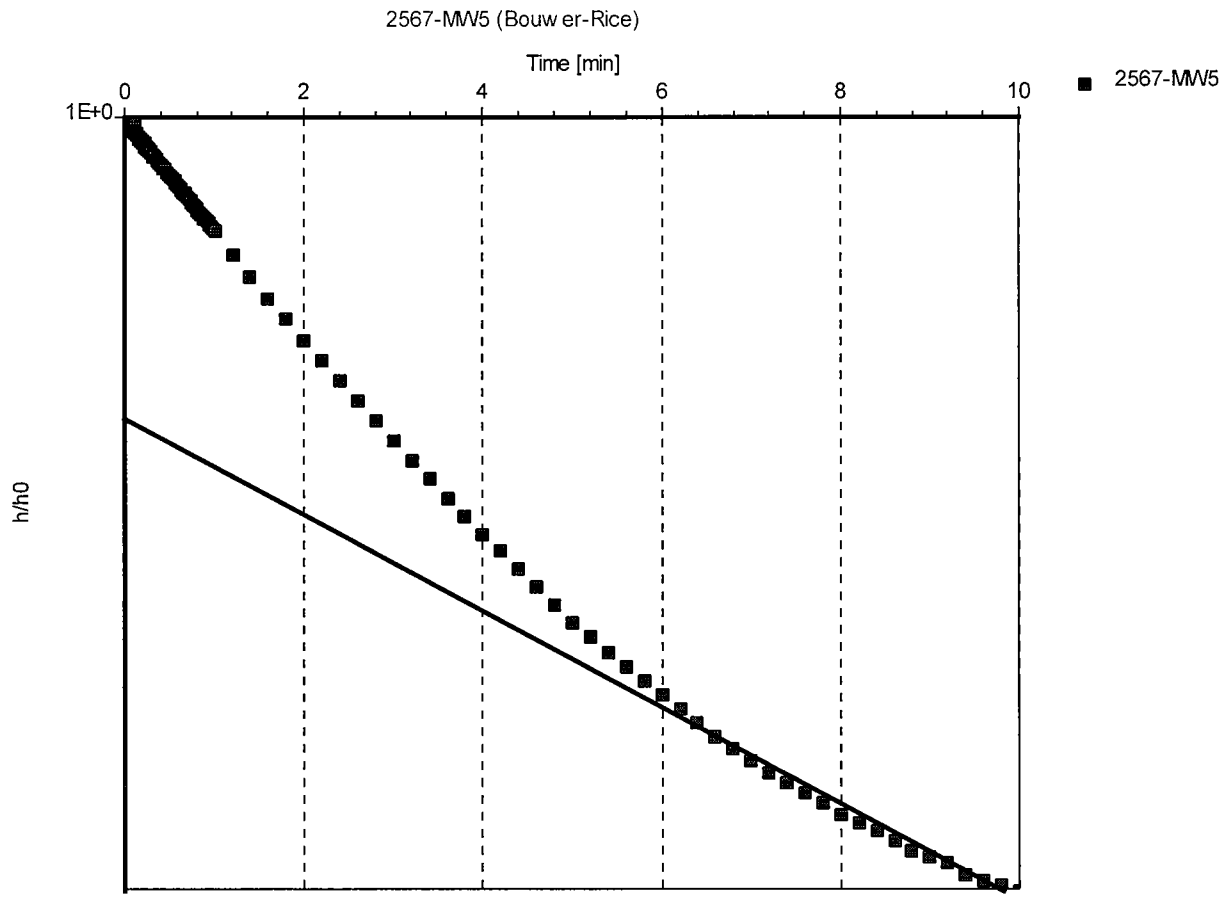
Comments:

Evaluated by: TJK/PS
Date: 8/17/01

Waterloo Hydrogeologic, Inc.
180 Columbia St. Unit 1104
Waterloo, Ontario, Canada
Phone: +1 519 746 1798

Pumping Test Analysis Report

Project:	DO 19
No:	4936-119
Client:	Fort Monmouth



Test name: **2567-MW5**

Analysis method: **Bouwer-Rice**

Analysis results:

Conductivity: 2.44E+1 [ft/d]

Test parameters:

Test well:	2567-MW5	Aquifer thickness:	100 [ft]
Screen radius:	0.333 [ft]	Gravel pack Porosity (%)	25
Screen length:	2.5 [ft]		
Casing radius:	0.666 [ft]		
r(eff):	0.600 [ft]		

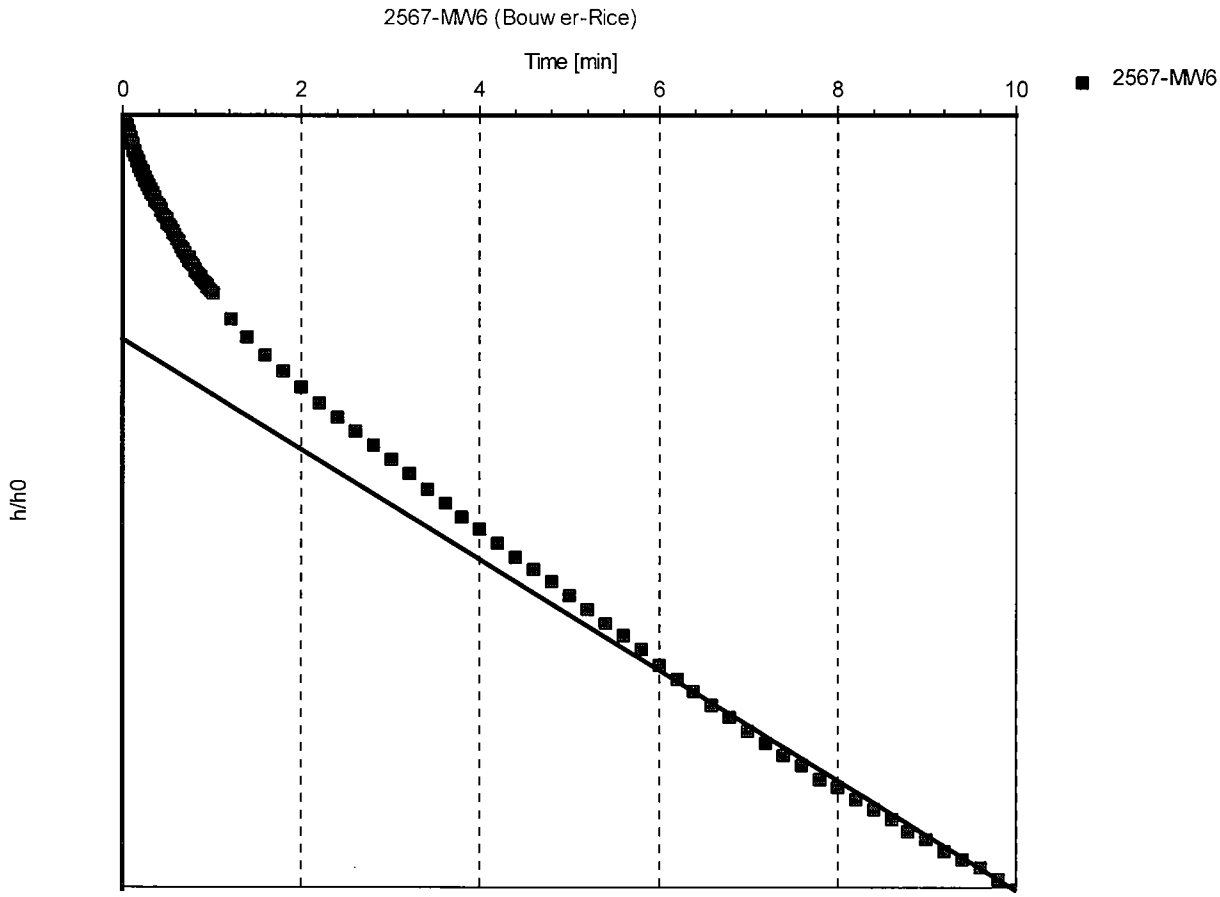
Comments:

Evaluated by: TJK/PS
Date: 8/17/01

Waterloo Hydrogeologic, Inc.
180 Columbia St. Unit 1104
Waterloo, Ontario, Canada
Phone: +1 519 746 1798

Pumping Test Analysis Report

Project:	DO 19
No:	4936-119
Client:	Fort Monmouth



Test name: **2567-MW6**

Analysis method: **Bouwer-Rice**

Analysis results:

Conductivity: 2.36E+1 [ft/d]

Test parameters:

Test well:	2567-MW6	Aquifer thickness:	100 [ft]
Screen radius:	0.333 [ft]	Gravel pack Porosity (%)	25
Screen length:	3 [ft]		
Casing radius:	0.666 [ft]		
r(eff):	0.600 [ft]		

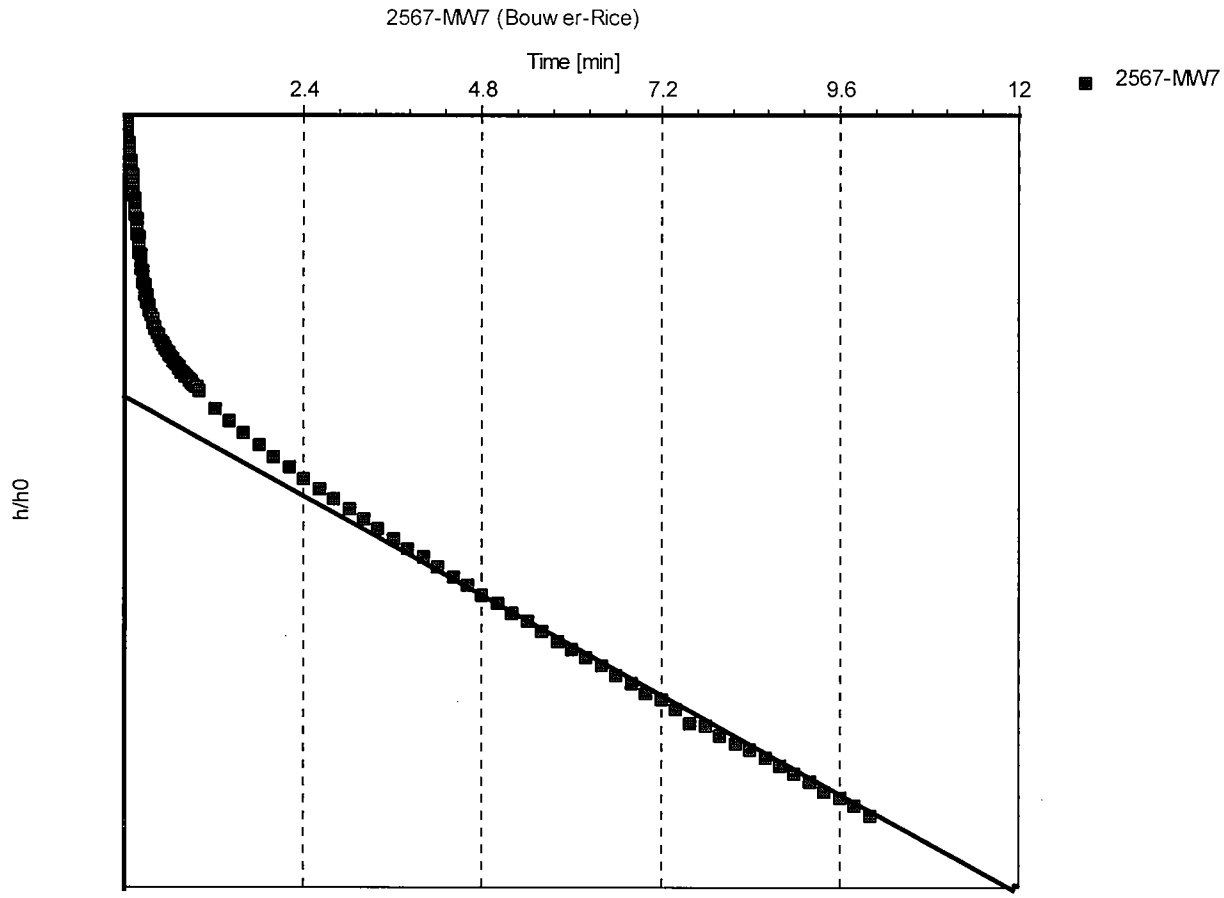
Comments:

Evaluated by: TJK/PS
Date: 8/17/01

Waterloo Hydrogeologic, Inc.
180 Columbia St. Unit 1104
Waterloo, Ontario, Canada
Phone: +1 519 746 1798

Pumping Test Analysis Report

Project:	DO 19
No:	4936-119
Client:	Fort Monmouth



Test name: **2567-MW7**

Analysis method: **Bouwer-Rice**

Analysis results:

Conductivity: 1.88E+1 [ft/d]

Test parameters:

Test well:	2567-MW7	Aquifer thickness:	100 [ft]
Screen radius:	0.333 [ft]	Gravel pack Porosity (%)	25
Screen length:	3 [ft]		
Casing radius:	0.666 [ft]		
r(eff):	0.600 [ft]		

Comments:

Evaluated by: TJK/PS
Date: 8/16/01

SE1000C
Environmental Logger
08/17 16:17

Unit# 00001 Test 4

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	16426
Reference	4.750
Linearity	0.000
Scale factor	10.000
Offset	-0.330
Delay mSEC	50.000

Step 0 08/17 10:50:07

Elapsed Time	INPUT 1
0.0000	7.471
0.0033	7.430
0.0066	7.386
0.0100	7.361
0.0133	7.326
0.0166	7.285
0.0200	7.250
0.0233	7.225
0.0266	7.209
0.0300	7.174
0.0333	7.146
0.0366	7.121
0.0400	7.105
0.0433	7.058
0.0466	7.016
0.0500	6.991
0.0533	6.956
0.0566	6.938
0.0600	6.919
0.0633	6.893
0.0666	6.871
0.0700	6.843
0.0733	6.827
0.0766	6.808
0.0800	6.786

0.0833	6.764
0.0866	6.745
0.0900	6.726
0.0933	6.707
0.0966	6.691
0.1000	6.675
0.1033	6.657
0.1066	6.641
0.1100	6.625
0.1133	6.609
0.1166	6.593
0.1200	6.581
0.1233	6.565
0.1266	6.552
0.1300	6.540
0.1333	6.527
0.1366	6.518
0.1400	6.502
0.1433	6.492
0.1466	6.480
0.1500	6.470
0.1533	6.458
0.1566	6.448
0.1600	6.439
0.1633	6.429
0.1666	6.420
0.1700	6.410
0.1733	6.401
0.1766	6.391
0.1800	6.382
0.1833	6.372
0.1866	6.366
0.1900	6.357
0.1933	6.350
0.1966	6.341
0.2000	6.338
0.2033	6.331
0.2066	6.322
0.2100	6.316
0.2133	6.306
0.2166	6.300
0.2200	6.293
0.2233	6.290
0.2266	6.284
0.2300	6.278
0.2333	6.271
0.2366	6.265
0.2400	6.262

0.2433	6.256
0.2466	6.252
0.2500	6.246
0.2533	6.243
0.2566	6.237
0.2600	6.230
0.2633	6.227
0.2666	6.224
0.2700	6.218
0.2733	6.214
0.2766	6.211
0.2800	6.205
0.2833	6.202
0.2866	6.199
0.2900	6.196
0.2933	6.192
0.2966	6.189
0.3000	6.186
0.3033	6.183
0.3066	6.177
0.3100	6.173
0.3133	6.173
0.3166	6.170
0.3200	6.164
0.3233	6.164
0.3266	6.161
0.3300	6.158
0.3333	6.155
0.3500	6.142
0.3666	6.126
0.3833	6.117
0.4000	6.104
0.4166	6.095
0.4333	6.085
0.4500	6.076
0.4666	6.066
0.4833	6.060
0.5000	6.050
0.5166	6.044
0.5333	6.038
0.5500	6.031
0.5666	6.025
0.5833	6.019
0.6000	6.012
0.6166	6.006
0.6333	6.000
0.6500	5.997
0.6666	5.990

0.6833	5.984
0.7000	5.981
0.7166	5.975
0.7333	5.971
0.7500	5.965
0.7666	5.962
0.7833	5.956
0.8000	5.952
0.8166	5.946
0.8333	5.943
0.8500	5.940
0.8666	5.934
0.8833	5.934
0.9000	5.927
0.9166	5.924
0.9333	5.921
0.9500	5.915
0.9666	5.911
0.9833	5.908
1.0000	5.905
1.2000	5.855
1.4000	5.820
1.6000	5.788
1.8000	5.760
2.0000	5.735
2.2000	5.709
2.4000	5.687
2.6000	5.665
2.8000	5.646
3.0000	5.624
3.2000	5.608
3.4000	5.592
3.6000	5.577
3.8000	5.561
4.0000	5.545
4.2000	5.529
4.4000	5.520
4.6000	5.504
4.8000	5.491
5.0000	5.479
5.2000	5.469
5.4000	5.457
5.6000	5.447
5.8000	5.438
6.0000	5.428
6.2000	5.419
6.4000	5.409
6.6000	5.400

6.8000	5.390
7.0000	5.381
7.2000	5.371
7.4000	5.362
7.6000	5.356
7.8000	5.349
8.0000	5.340
8.2000	5.334
8.4000	5.327
8.6000	5.321
8.8000	5.315
9.0000	5.308
9.2000	5.302
9.4000	5.296
9.6000	5.289
9.8000	5.286
10.0000	5.277

SE1000C
Environmental Logger
08/17 16:22

Unit# 00001 Test 2

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	16426
Reference	4.420
Linearity	0.000
Scale factor	10.000
Offset	-0.330
Delay mSEC	50.000

Step 0 08/17 10:05:13

Elapsed Time	INPUT 1
0.0000	7.192
0.0033	7.157
0.0066	7.116
0.0100	7.078
0.0133	7.031
0.0166	6.986
0.0200	6.993
0.0233	6.945
0.0266	6.908
0.0300	6.873
0.0333	6.829
0.0366	6.781
0.0400	6.743
0.0433	6.709
0.0466	6.677
0.0500	6.642
0.0533	6.617
0.0566	6.589
0.0600	6.560
0.0633	6.522
0.0666	6.503
0.0700	6.478
0.0733	6.453
0.0766	6.428
0.0800	6.405

0.0833	6.380
0.0866	6.358
0.0900	6.336
0.0933	6.317
0.0966	6.295
0.1000	6.276
0.1033	6.257
0.1066	6.238
0.1100	6.219
0.1133	6.203
0.1166	6.184
0.1200	6.169
0.1233	6.153
0.1266	6.137
0.1300	6.121
0.1333	6.109
0.1366	6.093
0.1400	6.080
0.1433	6.068
0.1466	6.055
0.1500	6.042
0.1533	6.030
0.1566	6.017
0.1600	6.004
0.1633	5.995
0.1666	5.986
0.1700	5.973
0.1733	5.963
0.1766	5.954
0.1800	5.945
0.1833	5.935
0.1866	5.926
0.1900	5.919
0.1933	5.910
0.1966	5.903
0.2000	5.894
0.2033	5.888
0.2066	5.881
0.2100	5.872
0.2133	5.866
0.2166	5.859
0.2200	5.853
0.2233	5.847
0.2266	5.843
0.2300	5.837
0.2333	5.831
0.2366	5.828
0.2400	5.821

0.2433	5.815
0.2466	5.812
0.2500	5.806
0.2533	5.802
0.2566	5.799
0.2600	5.793
0.2633	5.790
0.2666	5.787
0.2700	5.780
0.2733	5.777
0.2766	5.774
0.2800	5.771
0.2833	5.768
0.2866	5.765
0.2900	5.761
0.2933	5.758
0.2966	5.755
0.3000	5.752
0.3033	5.746
0.3066	5.746
0.3100	5.742
0.3133	5.739
0.3166	5.736
0.3200	5.733
0.3233	5.730
0.3266	5.727
0.3300	5.723
0.3333	5.723
0.3500	5.708
0.3666	5.695
0.3833	5.686
0.4000	5.673
0.4166	5.663
0.4333	5.654
0.4500	5.645
0.4666	5.635
0.4833	5.629
0.5000	5.619
0.5166	5.613
0.5333	5.604
0.5500	5.597
0.5666	5.591
0.5833	5.585
0.6000	5.578
0.6166	5.572
0.6333	5.566
0.6500	5.559
0.6666	5.553

0.6833	5.547
0.7000	5.540
0.7166	5.537
0.7333	5.531
0.7500	5.525
0.7666	5.521
0.7833	5.515
0.8000	5.512
0.8166	5.506
0.8333	5.502
0.8500	5.496
0.8666	5.490
0.8833	5.487
0.9000	5.484
0.9166	5.477
0.9333	5.474
0.9500	5.471
0.9666	5.465
0.9833	5.461
1.0000	5.458
1.2000	5.408
1.4000	5.367
1.6000	5.335
1.8000	5.304
2.0000	5.275
2.2000	5.250
2.4000	5.225
2.6000	5.203
2.8000	5.180
3.0000	5.161
3.2000	5.143
3.4000	5.127
3.6000	5.111
3.8000	5.095
4.0000	5.079
4.2000	5.067
4.4000	5.051
4.6000	5.041
4.8000	5.029
5.0000	5.019
5.2000	5.007
5.4000	4.997
5.6000	4.988
5.8000	4.978
6.0000	4.972
6.2000	4.963
6.4000	4.956
6.6000	4.947

6.8000	4.940
7.0000	4.934
7.2000	4.928
7.4000	4.922
7.6000	4.915
7.8000	4.909
8.0000	4.903
8.2000	4.899
8.4000	4.893
8.6000	4.887
8.8000	4.884
9.0000	4.880
9.2000	4.874
9.4000	4.871
9.6000	4.865
9.8000	4.862
10.0000	4.858

SE1000C
Environmental Logger
08/17 16:24

Unit# 00001 Test 1

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	16426
Reference	4.200
Linearity	0.000
Scale factor	10.000
Offset	-0.330
Delay mSEC	50.000

Step 0 08/17 09:42:57

Elapsed Time	INPUT 1
0.0000	7.038
0.0033	7.013
0.0066	6.991
0.0100	6.991
0.0133	6.991
0.0166	6.959
0.0200	6.943
0.0233	6.915
0.0266	6.899
0.0300	6.842
0.0333	6.830
0.0366	6.804
0.0400	6.766
0.0433	6.754
0.0466	6.732
0.0500	6.716
0.0533	6.672
0.0566	6.675
0.0600	6.650
0.0633	6.628
0.0666	6.609
0.0700	6.590
0.0733	6.571
0.0766	6.552
0.0800	6.533

0.0833	6.514
0.0866	6.498
0.0900	6.476
0.0933	6.457
0.0966	6.441
0.1000	6.422
0.1033	6.406
0.1066	6.388
0.1100	6.372
0.1133	6.353
0.1166	6.337
0.1200	6.318
0.1233	6.302
0.1266	6.287
0.1300	6.271
0.1333	6.258
0.1366	6.239
0.1400	6.227
0.1433	6.211
0.1466	6.195
0.1500	6.182
0.1533	6.167
0.1566	6.154
0.1600	6.141
0.1633	6.129
0.1666	6.116
0.1700	6.100
0.1733	6.091
0.1766	6.078
0.1800	6.065
0.1833	6.053
0.1866	6.043
0.1900	6.031
0.1933	6.021
0.1966	6.009
0.2000	5.999
0.2033	5.990
0.2066	5.980
0.2100	5.971
0.2133	5.961
0.2166	5.955
0.2200	5.946
0.2233	5.936
0.2266	5.930
0.2300	5.920
0.2333	5.914
0.2366	5.908
0.2400	5.901

0.2433	5.895
0.2466	5.889
0.2500	5.882
0.2533	5.876
0.2566	5.870
0.2600	5.863
0.2633	5.857
0.2666	5.854
0.2700	5.848
0.2733	5.841
0.2766	5.838
0.2800	5.835
0.2833	5.829
0.2866	5.826
0.2900	5.819
0.2933	5.816
0.2966	5.813
0.3000	5.810
0.3033	5.803
0.3066	5.800
0.3100	5.797
0.3133	5.794
0.3166	5.791
0.3200	5.788
0.3233	5.784
0.3266	5.781
0.3300	5.778
0.3333	5.775
0.3500	5.759
0.3666	5.747
0.3833	5.734
0.4000	5.724
0.4166	5.715
0.4333	5.706
0.4500	5.696
0.4666	5.690
0.4833	5.680
0.5000	5.674
0.5166	5.668
0.5333	5.661
0.5500	5.655
0.5666	5.649
0.5833	5.646
0.6000	5.639
0.6166	5.636
0.6333	5.630
0.6500	5.627
0.6666	5.623

0.6833	5.617
0.7000	5.614
0.7166	5.611
0.7333	5.608
0.7500	5.601
0.7666	5.601
0.7833	5.595
0.8000	5.592
0.8166	5.589
0.8333	5.586
0.8500	5.582
0.8666	5.579
0.8833	5.576
0.9000	5.573
0.9166	5.570
0.9333	5.570
0.9500	5.567
0.9666	5.563
0.9833	5.560
1.0000	5.557
1.2000	5.522
1.4000	5.497
1.6000	5.475
1.8000	5.456
2.0000	5.434
2.2000	5.418
2.4000	5.399
2.6000	5.384
2.8000	5.368
3.0000	5.352
3.2000	5.339
3.4000	5.327
3.6000	5.311
3.8000	5.292
4.0000	5.282
4.2000	5.270
4.4000	5.257
4.6000	5.248
4.8000	5.235
5.0000	5.226
5.2000	5.213
5.4000	5.200
5.6000	5.191
5.8000	5.181
6.0000	5.169
6.2000	5.159
6.4000	5.150
6.6000	5.140

6.8000	5.131
7.0000	5.121
7.2000	5.112
7.4000	5.102
7.6000	5.093
7.8000	5.087
8.0000	5.077
8.2000	5.068
8.4000	5.061
8.6000	5.055
8.8000	5.046
9.0000	5.039
9.2000	5.030
9.4000	5.020
9.6000	5.014
9.8000	5.008
10.0000	5.001

SE1000C
Environmental Logger
08/17 16:19

Unit# 00001 Test 3

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	16426
Reference	3.410
Linearity	0.000
Scale factor	10.000
Offset	-0.330
Delay mSEC	50.000

Step 0 08/17 10:24:32

Elapsed Time	INPUT 1
0.0000	5.222
0.0033	5.200
0.0066	5.181
0.0100	5.159
0.0133	5.140
0.0166	5.121
0.0200	5.102
0.0233	5.083
0.0266	5.067
0.0300	5.048
0.0333	5.032
0.0366	5.013
0.0400	4.998
0.0433	4.982
0.0466	4.966
0.0500	4.950
0.0533	4.935
0.0566	4.919
0.0600	4.906
0.0633	4.890
0.0666	4.878
0.0700	4.865
0.0733	4.849
0.0766	4.837
0.0800	4.824

0.0833	4.811
0.0866	4.799
0.0900	4.789
0.0933	4.777
0.0966	4.764
0.1000	4.755
0.1033	4.745
0.1066	4.732
0.1100	4.723
0.1133	4.713
0.1166	4.701
0.1200	4.691
0.1233	4.682
0.1266	4.672
0.1300	4.666
0.1333	4.657
0.1366	4.647
0.1400	4.641
0.1433	4.631
0.1466	4.622
0.1500	4.616
0.1533	4.606
0.1566	4.600
0.1600	4.594
0.1633	4.584
0.1666	4.578
0.1700	4.571
0.1733	4.565
0.1766	4.559
0.1800	4.552
0.1833	4.546
0.1866	4.540
0.1900	4.534
0.1933	4.527
0.1966	4.524
0.2000	4.518
0.2033	4.511
0.2066	4.505
0.2100	4.502
0.2133	4.496
0.2166	4.492
0.2200	4.486
0.2233	4.480
0.2266	4.477
0.2300	4.470
0.2333	4.467
0.2366	4.461
0.2400	4.458

0.2433	4.455
0.2466	4.448
0.2500	4.445
0.2533	4.442
0.2566	4.439
0.2600	4.432
0.2633	4.429
0.2666	4.423
0.2700	4.420
0.2733	4.417
0.2766	4.414
0.2800	4.410
0.2833	4.407
0.2866	4.404
0.2900	4.401
0.2933	4.395
0.2966	4.391
0.3000	4.388
0.3033	4.385
0.3066	4.382
0.3100	4.379
0.3133	4.376
0.3166	4.372
0.3200	4.369
0.3233	4.366
0.3266	4.363
0.3300	4.360
0.3333	4.357
0.3500	4.344
0.3666	4.328
0.3833	4.316
0.4000	4.303
0.4166	4.294
0.4333	4.284
0.4500	4.275
0.4666	4.265
0.4833	4.256
0.5000	4.246
0.5166	4.240
0.5333	4.234
0.5500	4.224
0.5666	4.218
0.5833	4.211
0.6000	4.205
0.6166	4.199
0.6333	4.193
0.6500	4.186
0.6666	4.180

0.6833	4.174
0.7000	4.167
0.7166	4.164
0.7333	4.158
0.7500	4.155
0.7666	4.148
0.7833	4.142
0.8000	4.139
0.8166	4.133
0.8333	4.126
0.8500	4.123
0.8666	4.120
0.8833	4.117
0.9000	4.110
0.9166	4.107
0.9333	4.101
0.9500	4.098
0.9666	4.095
0.9833	4.088
1.0000	4.085
1.2000	4.032
1.4000	3.997
1.6000	3.962
1.8000	3.934
2.0000	3.908
2.2000	3.886
2.4000	3.864
2.6000	3.845
2.8000	3.829
3.0000	3.814
3.2000	3.798
3.4000	3.785
3.6000	3.773
3.8000	3.760
4.0000	3.751
4.2000	3.741
4.4000	3.732
4.6000	3.722
4.8000	3.716
5.0000	3.706
5.2000	3.700
5.4000	3.694
5.6000	3.687
5.8000	3.681
6.0000	3.675
6.2000	3.672
6.4000	3.665
6.6000	3.662

6.8000	3.656
7.0000	3.653
7.2000	3.649
7.4000	3.646
7.6000	3.640
7.8000	3.637
8.0000	3.634
8.2000	3.631
8.4000	3.627
8.6000	3.624
8.8000	3.624
9.0000	3.621
9.2000	3.618
9.4000	3.618
9.6000	3.615
9.8000	3.615
10.0000	3.612

SE1000C
Environmental Logger
08/17 16:13

Unit# 00001 Test 5

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	16426
Reference	7.480
Linearity	0.000
Scale factor	10.000
Offset	-0.330
Delay mSEC	50.000

Step 0 08/17 11:21:00

Elapsed Time	INPUT 1
0.0000	10.410
0.0033	10.416
0.0066	10.410
0.0100	10.410
0.0133	10.410
0.0166	10.394
0.0200	10.394
0.0233	10.384
0.0266	10.384
0.0300	10.378
0.0333	10.372
0.0366	10.362
0.0400	10.359
0.0433	10.331
0.0466	10.356
0.0500	10.356
0.0533	10.350
0.0566	10.359
0.0600	10.305
0.0633	10.327
0.0666	10.321
0.0700	10.321
0.0733	10.312
0.0766	10.381
0.0800	10.340

0.0833	10.337
0.0866	10.309
0.0900	10.315
0.0933	10.299
0.0966	10.315
0.1000	10.365
0.1033	10.362
0.1066	10.299
0.1100	10.296
0.1133	10.286
0.1166	10.302
0.1200	10.299
0.1233	10.290
0.1266	10.283
0.1300	10.277
0.1333	10.277
0.1366	10.274
0.1400	10.264
0.1433	10.264
0.1466	10.258
0.1500	10.236
0.1533	10.258
0.1566	10.249
0.1600	10.249
0.1633	10.245
0.1666	10.242
0.1700	10.239
0.1733	10.236
0.1766	10.233
0.1800	10.230
0.1833	10.226
0.1866	10.223
0.1900	10.220
0.1933	10.217
0.1966	10.214
0.2000	10.214
0.2033	10.211
0.2066	10.204
0.2100	10.201
0.2133	10.201
0.2166	10.198
0.2200	10.204
0.2233	10.192
0.2266	10.185
0.2300	10.189
0.2333	10.185
0.2366	10.182
0.2400	10.179

0.2433	10.176
0.2466	10.176
0.2500	10.173
0.2533	10.166
0.2566	10.163
0.2600	10.160
0.2633	10.157
0.2666	10.157
0.2700	10.154
0.2733	10.151
0.2766	10.148
0.2800	10.144
0.2833	10.141
0.2866	10.138
0.2900	10.138
0.2933	10.135
0.2966	10.132
0.3000	10.129
0.3033	10.125
0.3066	10.125
0.3100	10.122
0.3133	10.116
0.3166	10.116
0.3200	10.113
0.3233	10.110
0.3266	10.106
0.3300	10.106
0.3333	10.103
0.3500	10.088
0.3666	10.075
0.3833	10.059
0.4000	10.046
0.4166	10.034
0.4333	10.021
0.4500	10.009
0.4666	9.993
0.4833	9.980
0.5000	9.967
0.5166	9.955
0.5333	9.942
0.5500	9.930
0.5666	9.917
0.5833	9.904
0.6000	9.892
0.6166	9.879
0.6333	9.870
0.6500	9.857
0.6666	9.844

0.6833	9.832
0.7000	9.819
0.7166	9.806
0.7333	9.794
0.7500	9.781
0.7666	9.772
0.7833	9.759
0.8000	9.750
0.8166	9.737
0.8333	9.724
0.8500	9.712
0.8666	9.702
0.8833	9.690
0.9000	9.680
0.9166	9.668
0.9333	9.658
0.9500	9.645
0.9666	9.636
0.9833	9.627
1.0000	9.614
1.2000	9.469
1.4000	9.355
1.6000	9.248
1.8000	9.150
2.0000	9.055
2.2000	8.970
2.4000	8.888
2.6000	8.812
2.8000	8.742
3.0000	8.676
3.2000	8.616
3.4000	8.559
3.6000	8.506
3.8000	8.458
4.0000	8.411
4.2000	8.370
4.4000	8.329
4.6000	8.291
4.8000	8.256
5.0000	8.221
5.2000	8.193
5.4000	8.165
5.6000	8.139
5.8000	8.117
6.0000	8.095
6.2000	8.073
6.4000	8.054
6.6000	8.035

6.8000	8.019
7.0000	8.004
7.2000	7.988
7.4000	7.975
7.6000	7.963
7.8000	7.953
8.0000	7.940
8.2000	7.931
8.4000	7.922
8.6000	7.912
8.8000	7.903
9.0000	7.896
9.2000	7.890
9.4000	7.880
9.6000	7.874
9.8000	7.871
10.0000	7.865

SE1000C
Environmental Logger
08/17 16:27

Unit# 00001 Test 0

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	16426
Reference	7.850
Linearity	0.000
Scale factor	10.000
Offset	-0.330
Delay mSEC	50.000

Step 0 08/17 09:11:43

Elapsed Time	INPUT 1
0.0000	10.698
0.0033	10.691
0.0066	10.685
0.0100	10.682
0.0133	10.672
0.0166	10.656
0.0200	10.647
0.0233	10.641
0.0266	10.634
0.0300	10.647
0.0333	10.622
0.0366	10.622
0.0400	10.603
0.0433	10.603
0.0466	10.603
0.0500	10.593
0.0533	10.587
0.0566	10.578
0.0600	10.578
0.0633	10.568
0.0666	10.549
0.0700	10.559
0.0733	10.552
0.0766	10.549
0.0800	10.536

0.0833	10.518
0.0866	10.521
0.0900	10.521
0.0933	10.511
0.0966	10.508
0.1000	10.502
0.1033	10.495
0.1066	10.486
0.1100	10.483
0.1133	10.499
0.1166	10.451
0.1200	10.454
0.1233	10.454
0.1266	10.448
0.1300	10.442
0.1333	10.432
0.1366	10.435
0.1400	10.426
0.1433	10.426
0.1466	10.413
0.1500	10.410
0.1533	10.407
0.1566	10.401
0.1600	10.398
0.1633	10.391
0.1666	10.388
0.1700	10.385
0.1733	10.379
0.1766	10.375
0.1800	10.366
0.1833	10.363
0.1866	10.357
0.1900	10.357
0.1933	10.353
0.1966	10.344
0.2000	10.341
0.2033	10.338
0.2066	10.334
0.2100	10.328
0.2133	10.325
0.2166	10.319
0.2200	10.315
0.2233	10.312
0.2266	10.309
0.2300	10.306
0.2333	10.300
0.2366	10.297
0.2400	10.293

0.2433	10.290
0.2466	10.287
0.2500	10.281
0.2533	10.278
0.2566	10.274
0.2600	10.271
0.2633	10.268
0.2666	10.265
0.2700	10.259
0.2733	10.255
0.2766	10.252
0.2800	10.249
0.2833	10.246
0.2866	10.240
0.2900	10.237
0.2933	10.237
0.2966	10.230
0.3000	10.227
0.3033	10.224
0.3066	10.221
0.3100	10.218
0.3133	10.214
0.3166	10.211
0.3200	10.208
0.3233	10.205
0.3266	10.202
0.3300	10.199
0.3333	10.192
0.3500	10.177
0.3666	10.158
0.3833	10.145
0.4000	10.129
0.4166	10.113
0.4333	10.098
0.4500	10.082
0.4666	10.069
0.4833	10.053
0.5000	10.041
0.5166	10.025
0.5333	10.016
0.5500	10.000
0.5666	9.987
0.5833	9.974
0.6000	9.959
0.6166	9.946
0.6333	9.933
0.6500	9.921
0.6666	9.908

0.6833	9.899
0.7000	9.886
0.7166	9.873
0.7333	9.864
0.7500	9.851
0.7666	9.839
0.7833	9.829
0.8000	9.817
0.8166	9.807
0.8333	9.798
0.8500	9.788
0.8666	9.776
0.8833	9.766
0.9000	9.760
0.9166	9.747
0.9333	9.738
0.9500	9.731
0.9666	9.722
0.9833	9.712
1.0000	9.706
1.2000	9.602
1.4000	9.529
1.6000	9.460
1.8000	9.403
2.0000	9.349
2.2000	9.302
2.4000	9.255
2.6000	9.213
2.8000	9.172
3.0000	9.135
3.2000	9.097
3.4000	9.059
3.6000	9.024
3.8000	8.992
4.0000	8.961
4.2000	8.932
4.4000	8.904
4.6000	8.879
4.8000	8.854
5.0000	8.828
5.2000	8.803
5.4000	8.778
5.6000	8.756
5.8000	8.734
6.0000	8.711
6.2000	8.689
6.4000	8.670
6.6000	8.651

6.8000	8.636
7.0000	8.617
7.2000	8.601
7.4000	8.588
7.6000	8.576
7.8000	8.560
8.0000	8.550
8.2000	8.538
8.4000	8.528
8.6000	8.516
8.8000	8.506
9.0000	8.497
9.2000	8.487
9.4000	8.478
9.6000	8.471
9.8000	8.462
10.0000	8.453

SE1000C
Environmental Logger
08/16 14:09

Unit# 00001 Test 18

Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	16426
Reference	7.650
Linearity	0.000
Scale factor	10.000
Offset	-0.330
Delay mSEC	50.000

Step 0 08/16 08:31:23

Elapsed Time	INPUT 1
0.0000	10.431
0.0033	10.406
0.0066	10.387
0.0100	10.374
0.0133	10.368
0.0166	10.352
0.0200	10.321
0.0233	10.311
0.0266	10.283
0.0300	10.277
0.0333	10.248
0.0366	10.245
0.0400	10.226
0.0433	10.220
0.0466	10.191
0.0500	10.175
0.0533	10.153
0.0566	10.141
0.0600	10.125
0.0633	10.106
0.0666	10.131
0.0700	10.093
0.0733	10.081
0.0766	10.074
0.0800	10.055

0.0833	10.030
0.0866	10.024
0.0900	10.008
0.0933	9.992
0.0966	10.008
0.1000	9.980
0.1033	9.970
0.1066	9.951
0.1100	9.932
0.1133	9.907
0.1166	9.904
0.1200	9.891
0.1233	9.875
0.1266	9.860
0.1300	9.847
0.1333	9.834
0.1366	9.819
0.1400	9.806
0.1433	9.790
0.1466	9.778
0.1500	9.765
0.1533	9.752
0.1566	9.743
0.1600	9.730
0.1633	9.718
0.1666	9.705
0.1700	9.695
0.1733	9.680
0.1766	9.670
0.1800	9.658
0.1833	9.645
0.1866	9.636
0.1900	9.629
0.1933	9.613
0.1966	9.604
0.2000	9.591
0.2033	9.582
0.2066	9.566
0.2100	9.560
0.2133	9.547
0.2166	9.541
0.2200	9.528
0.2233	9.519
0.2266	9.509
0.2300	9.503
0.2333	9.493
0.2366	9.484
0.2400	9.474

0.2433	9.468
0.2466	9.462
0.2500	9.452
0.2533	9.446
0.2566	9.440
0.2600	9.433
0.2633	9.427
0.2666	9.421
0.2700	9.414
0.2733	9.408
0.2766	9.402
0.2800	9.396
0.2833	9.392
0.2866	9.386
0.2900	9.383
0.2933	9.377
0.2966	9.370
0.3000	9.367
0.3033	9.361
0.3066	9.358
0.3100	9.355
0.3133	9.348
0.3166	9.345
0.3200	9.342
0.3233	9.339
0.3266	9.336
0.3300	9.329
0.3333	9.326
0.3500	9.307
0.3666	9.291
0.3833	9.276
0.4000	9.263
0.4166	9.250
0.4333	9.241
0.4500	9.228
0.4666	9.219
0.4833	9.209
0.5000	9.200
0.5166	9.190
0.5333	9.181
0.5500	9.178
0.5666	9.168
0.5833	9.162
0.6000	9.156
0.6166	9.146
0.6333	9.140
0.6500	9.133
0.6666	9.127

0.6833	9.124
0.7000	9.115
0.7166	9.111
0.7333	9.105
0.7500	9.099
0.7666	9.092
0.7833	9.089
0.8000	9.083
0.8166	9.077
0.8333	9.073
0.8500	9.067
0.8666	9.064
0.8833	9.061
0.9000	9.055
0.9166	9.051
0.9333	9.045
0.9500	9.042
0.9666	9.039
0.9833	9.032
1.0000	9.029
1.2000	8.972
1.4000	8.931
1.6000	8.897
1.8000	8.862
2.0000	8.827
2.2000	8.799
2.4000	8.770
2.6000	8.742
2.8000	8.717
3.0000	8.695
3.2000	8.669
3.4000	8.650
3.6000	8.628
3.8000	8.606
4.0000	8.587
4.2000	8.565
4.4000	8.546
4.6000	8.530
4.8000	8.511
5.0000	8.496
5.2000	8.480
5.4000	8.464
5.6000	8.448
5.8000	8.429
6.0000	8.417
6.2000	8.404
6.4000	8.391
6.6000	8.376

6.8000	8.366
7.0000	8.350
7.2000	8.341
7.4000	8.328
7.6000	8.309
7.8000	8.306
8.0000	8.294
8.2000	8.284
8.4000	8.275
8.6000	8.265
8.8000	8.256
9.0000	8.246
9.2000	8.237
9.4000	8.227
9.6000	8.221
9.8000	8.212
10.0000	8.202
12.0000	8.133

APPENDIX J

Sensitive Receptor Survey

EDR Offsite Receptor Report

Fort Monmouth - Main Post
DPW Building 173
Eatontown, NJ 07724

Inquiry Number: 0695817.1r

October 24, 2001

Environmental Data Resources, Inc.

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

FORM-BEK

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	2
Census Map	3
Census Findings	4
Receptor Map	5
Map Findings	6
Records Searched/Data Currency Tracking Addendum	10

Thank you for your business
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer and Other Information

This Report contains information obtained from a variety of public and other sources and Environmental Data Resources, Inc. (EDR) makes no representation or warranty regarding the accuracy, reliability, quality, suitability, or completeness of said information or the information contained in this report. The customer shall assume full responsibility for the use of this report.
NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, EXPRESSED OR IMPLIED, SHALL APPLY AND EDR SPECIFICALLY DISCLAIMS THE MAKING OF SUCH WARRANTIES. IN NO EVENT SHALL EDR BE LIABLE TO ANYONE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES. COPYRIGHT (C) 1998 BY ENVIRONMENTAL DATA RESOURCES, INC. ALL RIGHTS RESERVED.

Unless otherwise indicated, all trademarks used herein are the property of Environmental Data Resources, Inc. or its affiliates.

EXECUTIVE SUMMARY

A search of available records was conducted by Environmental Data Resources, Inc. (EDR). The EDR Offsite Receptor Report provides information which may be used to comply with the Clean Air Act Risk Management Program 112-R. *"The rule requires that you estimate in the RMP residential populations within the circle defined by the endpoint for your worst-case and alternative release scenarios (i.e., the center of the circle is the point of release and the radius is the distance to the endpoint). In addition, you must report in the RMP whether certain types of public receptors and environmental receptors are within the circles."*

The address of the subject property, for which the search was intended, is:

FORT MONMOUTH - MAIN POST
DPW BUILDING 173
EATONTOWN, NJ 07724

Distance Searched: 2.000 miles from subject property

RECEPTOR SUMMARY
An X indicates the presence of the receptor within the search radius.

Residential Population
Estimated population within search radius: 21254 persons.

Other Public Receptors

Type	Within Search Radius	Sites Total
Day Care Centers:	☒	4
Medical Centers:	☐	
Nursing Homes:	☐	
Schools:	☒	12
Hospitals:	☐	
Arena:	☐	
Prison:	☐	

Environmental Receptors

Type	Within Search Radius	Sites Total
Federal Land:	☒	2

CENSUS MAP - 0695817.1r

★ Target Property

Roads

Waterways

Census Tracts

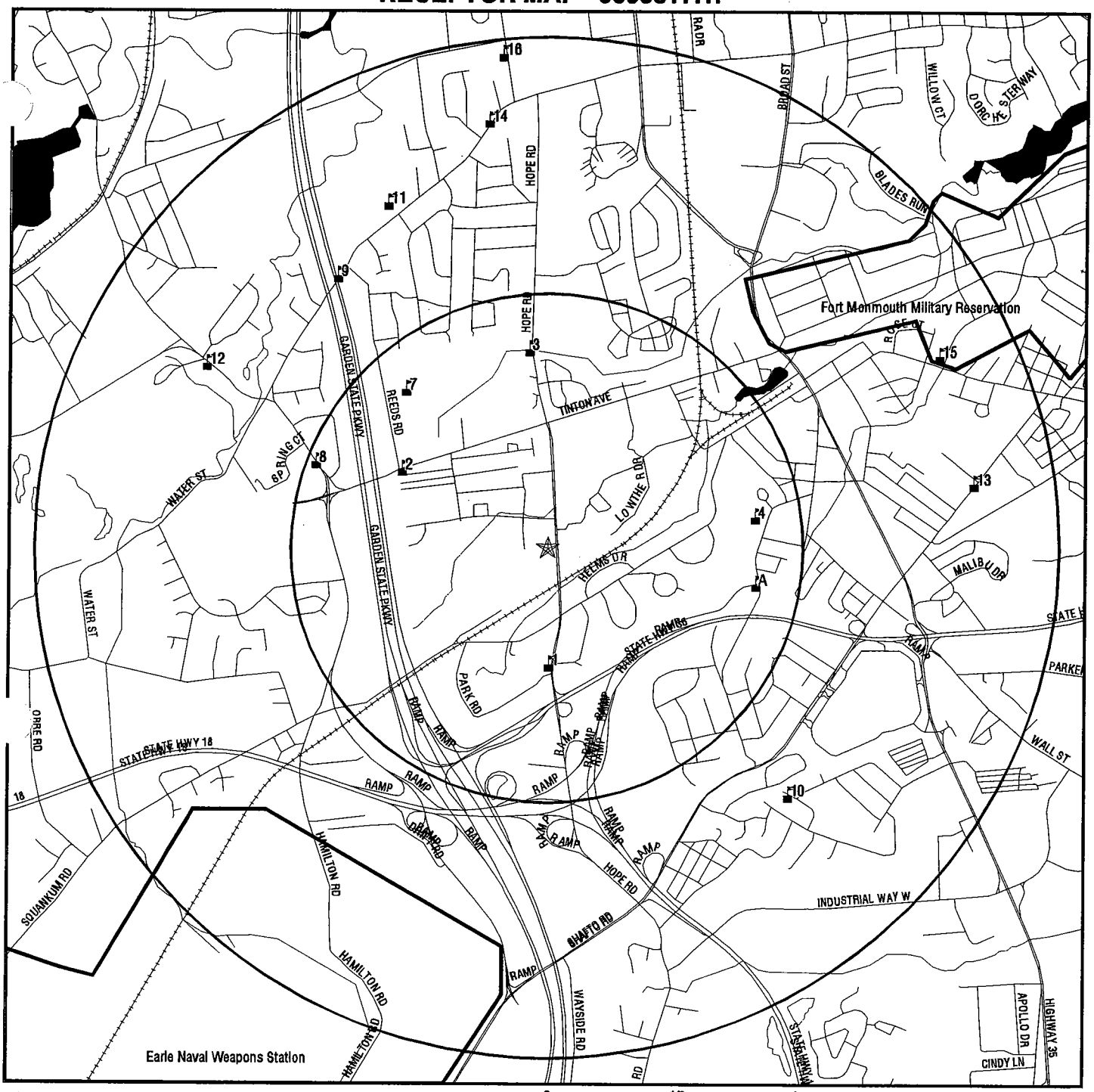
0 1/2 1 2 Miles

TARGET PROPERTY:	Fort Monmouth - Main Post	CUSTOMER:	Versar, Inc.
ADDRESS:	DPW Building 173	CONTACT:	Audrey Romano
CITY/STATE/ZIP:	Eatontown NJ 07724	INQUIRY #:	0695817.1r
LAT/LONG:	40.2958 / 74.0794	DATE:	October 24, 2001 6:59 pm

CENSUS FINDINGS

Map ID	Tract Number	Total Population	Population in Radius	Total Area(sq.mi.)	Area in Radius(sq.mi.)
T1	8099.02	2834	126.7	15.52	0.69
T2	8043.00	3096	767.0	2.23	0.55
T3	8045.00	5299	3551.2	2.87	1.92
T4	8046.00	1743	1532.9	3.05	2.68
T5	8044.00	1098	1098.0	0.10	0.10
T6	8049.00	638	581.2	0.35	0.32
T7	8050.01	4589	4589.0	1.00	1.00
T8	8050.02	3708	2684.8	1.22	0.89
T9	8047.97	1713	1713.0	0.41	0.41
T10	8047.98	1737	1737.0	0.43	0.43
T11	8051.00	3152	2077.9	2.95	1.95
T12	8048.00	3582	541.4	9.26	1.40
T13	8065.01	1971	253.4	1.28	0.16

RECEPTOR MAP - 0695817.1r



★ Target Property

Roads

Waterways

Environmental or Public Receptor

Federal Lands Linear Features

Federal Lands Area

TARGET PROPERTY:	Fort Monmouth - Main Post	CUSTOMER:	Versar, Inc.
ADDRESS:	DPW Building 173	CONTACT:	Audrey Romano
CITY/STATE/ZIP:	Eatontown NJ 07724	INQUIRY #:	0695817.1r
LAT/LONG:	40.2958 / 74.0794	DATE:	October 24, 2001 6:59 pm

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site		EDR ID Database
1 South 1/4-1/2 mi 2418 Higher	Name: ID: Site Type:	Kid's Campus 585450963 Daycare ctr	DAY1045385 DAYCARE
2 WNW 1/2-1 mi 3406 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	KIVA HIGH SCHOOL 341750006094 537 TINTON AVENUE EATONTOWN, NJ 07724 53060 732-542-5455 Urban Fringe of Large City Special Ed. Schools Other MONMOUTH Ungraded Ungraded	341750006094 CCD
3 North 1/2-1 mi 4137 Higher	Name: ID: Site Type:	RANNEY SCHOOL 9023 Private sch.	PRV1007246 PRV_SCH
4 East 1/2-1 mi 4337 Higher	Name: ID: Site Type: Latitude: Longitude:	Vetter School 882586 school 40.29700 -74.06000	GNS0931468 GNIS_SCH
A5 East 1/2-1 mi 4363 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	MARGARET L. VETTER E.S. 340441003768 3 GRANT AVENUE EATONTOWN, NJ 07724 52911 732-935-3330 Urban Fringe of Large City Regular Elementary and Secondary Schools Primary MONMOUTH Kindergarten 06	340441003768 CCD

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site		EDR ID Database
A6 East 1/2-1 mi 4370 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	MEMORIAL E.S. 340441003770 7 GRANT AVENUE EATONTOWN, NJ 07724 52912 732-935-3321 Urban Fringe of Large City Regular Elementary and Secondary Schools Middle MONMOUTH 07 08	340441003770 CCD
7 NW 1/2-1 mi 4396 Higher	Name: ID: Site Type: Latitude: Longitude:	Monmouth Regional High School 883505 school 40.30500 -74.09000	GNS0927201 GNIS_SCH
8 WNW 1/2-1 mi 5088 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	TINTON FALLS M.S. 341620004116 674 TINTON AVENUE EATONTOWN, NJ 07724 53044 732-542-0775 Urban Fringe of Large City Regular Elementary and Secondary Schools Middle MONMOUTH 06 08	341620004116 CCD
NA NE 1-2 mi 6231 NA	Name: ID: State FIPS: Feature:	Fort Monmouth Military Reservation 29120 34 Army DOD	US0029120 FED_LAND
9 NW 1-2 mi 7109 Higher	Name: ID: Site Type:	Winding Brook School 585451092 Daycare ctr	DAY1045372 DAYCARE

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site		EDR ID Database
10 SE 1-2 mi 7143 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	WOODMERE E.S. 340441003774 65 RALEIGH COURT EATONTOWN, NJ 07724 52914 732-935-3343 Urban Fringe of Large City Regular Elementary and Secondary Schools Primary MONMOUTH Kindergarten 06	340441003774 CCD
NA SSW 1-2 mi 7591 NA	Name: ID: State FIPS: Feature:	Earle Naval Weapons Station 29317 34 Navy DOD	US0029317 FED_LAND
11 NNW 1-2 mi 7864 Higher	Name: ID: Site Type: Latitude: Longitude:	New Shrewsbury School 882520 school 40.31500 -74.09000	GNS0927653 GNIS_SCH
12 WNW 1-2 mi 7989 Higher	Name: ID: Site Type:	Luther Memorial Christian Preschool 585450915 Daycare ctr	DAY1045374 DAYCARE
13 East 1-2 mi 8907 Lower	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	MEADOWBROOK E.S. 340441003772 65 WYCKOFF ROAD EATONTOWN, NJ 07724 52913 732-935-3337 Urban Fringe of Large City Regular Elementary and Secondary Schools Primary MONMOUTH Kindergarten 06	340441003772 CCD

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site		EDR ID Database
14 North 1-2 mi 8915 Higher	Name: NCES ID: Address: School ID: Telephone: Local Code: School Type: School Level: County: Lowest Grade: Highest Grade:	MAHALA F. ATCHINSON E.S. 341620004112 961 SYCAMORE AVENUE EATONTOWN, NJ 07724 53042 732-542-2500 Urban Fringe of Large City Regular Elementary and Secondary Schools Primary MONMOUTH Kindergarten 02	341620004112 CCD
15 ENE 1-2 mi 9018 Lower	Name: ID: Site Type: Latitude: Longitude:	Steelman School 882575 school 40.30700 -74.05000	GNS0930612 GNIS_SCH
16 North 1-2 mi 10244 Higher	Name: ID: Site Type:	Tinton Falls Cooperative Nursery School 585451093 Daycare ctr	DAY1045366 DAYCARE

RECORDS SEARCHED/DATA CURRENCY TRACKING

CENSUS
Source: U.S. Census Bureau
Telephone: 301-457-4100
1990 U.S. Census data was used to estimate residential population following these EPA guidelines:
"Census data are presented by Census tract. If your circle covers only a portion of the tract, you should develop an estimate for that portion...Determine the population density per square mile (total population of the Census tract divided by the number of square miles in the tract) and apply that density figure to the number of square miles within your circle."

FED_LAND: Federal Lands
Source: USGS
Telephone: 703-648-5094
Federal lands data. Includes data from several Federal land manangement agencies, including Fish and Wildlife Service, Bureau of Land Management, National Park Service, and Forest Service. Includes National Parks, Forests, Monuments; Wildlife Sanctuaries, Preserves, Refuges; Federal Wilderness Areas.
Date of government version: 09/09/97.

HCFA: Provider of Services Listing
Source: The Health Care Financing Administration
Telephone: 410/786-3000
A listing of hospitals with Medicare provider number, produced by The Health Care Financing Administration (HCFA), a federal agency within the U.S. Department of Health and Human Services.
HCFA runs the Medicare and Medicaid programs.
Date of government version: 06/01/98.

CCD: Common Core of Data
Source: National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
The Common Core of Data (CCD) is the National Center for Education Statistics' primary database on elementary and secondary public education in the United States. CCD is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Date of government version: 1995-96.

GNIS: Geographic Names Information System
Source: USGS
Telephone: 703-648-5094
The Geographic Names Information System (GNIS), developed by the USGS in cooperation with the U.S. Board on Geographic Names (BGN), contains information about almost 2 million physical and cultural geographic features in the United States. The GNIS is our Nation's official repository of domestic geographic names information.
Date of government version: 03/01/98.

PRV_SCH: Private Schools
EDR indicates the location of buildings and facilities - private schools - where individuals who are public receptors are likely to be located.

DAYCARE: Daycare Centers
EDR indicates the location of buildings and facilities - daycare centers - where individuals who are public receptors are likely to be located.

MEDCEN: Medical Centers
EDR indicates the location of buildings and facilities - medical centers - where individuals who are public receptors are likely to be located.

NURSING: Nursing Homes
EDR indicates the location of buildings and facilities - nursing homes - where individuals who are public receptors are likely to be located.

ARENA: Arenas
EDR indicates the location of buildings and facilities - arenas - where individuals who are public receptors are likely to be located.

PRISON: Prisons
EDR indicates the location of buildings and facilities - prisons - where individuals who are public receptors are likely to be located.

BOP: Bureau of Prisons Facilities
Source: Federal Bureau of Prisons
List of facilities operated by the Federal Bureau of Prisons.
Date of government version: 07/01/98.

APPENDIX K

Well Survey and Well Search Summary

Hitlist as of 08-27-2001

2916770 NJ DOT 2913864 CRAG 20 0 M 3004 93 11 25 06-30-1986 401659 740432 01-11-1993 N ... SD1
3 306 MAIN STREET 07-30-1986 41.5 ... ... WR1
2916771 NJ DOT 2913864 CRAG 20 0 M 3004 93 11 25 06-30-1986 401659 740432 01-11-1993 N ... SE1
306 MAIN STREET 07-30-1986 36.5 ... ... WR1
2916772 NJ DOT 2913864 CRAG 20 0 M 3004 93 11 25 06-30-1986 401659 740432 01-11-1993 N ... SE6
306 MAIN STREET 07-30-1986 36.5 ... ... WR1
2916773 NJ DOT 2913864 CRAG 20 0 M 3004 93 11 25 06-30-1986 401659 740432 01-11-1993 N ... SF3
306 MAIN STREET 07-30-1986 41.5 ... ... WR1
2916774 NJ DOT 2913864 CRAG 20 0 M 3004 93 11 25 06-30-1986 401659 740432 01-11-1993 N ... SF1
306 MAIN STREET 07-30-1986 41.5 ... ... WR1
2916775 NJ DOT 29138 CRAG 15 0 M 8A9A 113 36 25 06-30-1986 401752 740552 01-11-1993 N ... SB2
306 MAIN STREET 07-30-1986 63 ... ... WR1
2916776 NJ DOT 29138 CRAG 15 0 M 8A9A 113 36 25 06-30-1986 401752 740552 01-11-1993 N ... SB9
306 MAIN STREET 07-30-1986 76.5 ... ... WR1
2916777 NJ DOT 2913854 CRAG 20 0 M ... ... 11 25 06-30-1986 401659 740512 01-11-1993 N ... R40
3L 306 MAIN STREET 07-30-1986 46.5 ... ... WR1
2916778 NJ DOT 2913854 CRAG 20 0 M ... ... 11 25 06-30-1986 401659 740512 01-11-1993 N ... R40
6 306 MAIN STREET 07-30-1986 41.5 ... ... WR1
2916779 NJ DOT 2913839 CRAG 20 0 M 30 93 11 25 06-30-1986 401726 740406 01-11-1993 N ... R401L
306 MAIN STREET 07-30-1986 60.4 ... ... WR1
2916780 NJ DOT 2913856 CRAG 20 0 M 1.2 115 36 25 06-30-1986 401659 740446 01-11-1993 N ... R45
5 306 MAIN STREET 07-30-1986 46.5 ... ... WR1
2916781 NJ DOT 2913856 CRAG 20 0 M 1.2 11E 36 25 06-30-1986 401659 740446 01-11-1993 N ... R45
8 306 MAIN STREET 07-30-1986 16.5 ... ... WR1
2916782 NJ DOT 2913856 CRAG 20 0 M 1.2 115 36 25 06-30-1986 401659 740446 01-11-1993 N ... SG2
306 MAIN STREET 07-30-1986 36.5 ... ... WR1
2916783 NJ DOT 2913856 CRAG 20 0 M 1.2 115 36 25 06-30-1986 401659 740446 01-11-1993 N ... SG9
306 MAIN STREET 07-30-1986 40.8 ... ... WR1
2916784 NJ DOT 2913856 CRAG 20 0 M 1.2 115 36 25 06-30-1986 401659 740446 01-11-1993 N ... SH2
306 MAIN STREET 07-30-1986 46.5 ... ... WR1
2916785 NJ DOT 2913856 CRAG 20 0 M 1.2 115 36 25 06-30-1986 401659 740446 01-11-1993 N ... R47
2 306 MAIN STREET 07-30-1986 11.5 ... ... WR1
2916786 NJ DOT 2913863 CRAG 15 0 M 3002 93 11 25 06-30-1986 401712 740406 01-11-1993 N ... R40
7 306 MAIN STREET 07-30-1986 31.5 ... ... WR1
2916787 NJ DOT 2913863 CRAG 15 0 M 3002 93 11 25 06-30-1986 401712 740406 01-11-1993 N ... R42
3 306 MAIN STREET 07-30-1986 46.5 ... ... WR1
2916788 NJ DOT 2913864 CRAG 20 0 M 3003 93 11 25 06-30-1986 401659 740432 01-11-1993 N ... R42
5 306 MAIN STREET 07-30-1986 46.5 ... ... WR1
2916789 NJ DOT 2913864 CRAG 20 0 M 3003 93 11 25 06-30-1986 401659 740432 01-11-1993 N ... R42
7L 306 MAIN STREET 07-30-1986 45.9 ... ... WR1
2917933 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917934 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917935 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917936 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917937 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917938 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917939 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917940 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1

Perm Name NJGC Dist Dept Lot Block Municipality Permit Date Latitude Longitude

Hitlist at 08-27-2001

```
2900151 DURAND, JAMES 2913815 COBB 300 5 D ... ... 46 25 07-13-1951 401746 740546 ... ... ...
... ... ... ... ... ... ... ... ... WR1
2901121 NJ STATE HGWY AUTH. 2913854 LAUM 70 15 D ... ... 46 25 06-02-1954 401706 740519 ... ..
. ... ... ... ... ... ... ... ... ... ... WR1
2901154 NJ STATE HGWY AUTH. 2913812 LAUM 70 30 D ... ... 45 25 06-17-1954 401800 740546 ... ..
. ... ... ... ... ... ... ... ... ... ... WR1
2903374 CAROTENUTO BROS. 2913818 TICE 50 10 D ... ... 46 25 08-15-1960 401733 740546 ... ... .
.. ... ... ... ... ... ... ... ... ... WR1
2903863 MANZO, MICHAEL 2913818 GREH 90 10 D ... ... 37 25 06-29-1962 401733 740546 ... ... ...
... ... ... ... ... ... ... ... ... WR1
2905076 WILLETT III, HERBERT 2913818 TICE 100 15 D ... ... 36 25 05-20-1966 401733 740546 ...
... ... ... ... ... ... ... ... ... ... ... WR1
2907536 VOCATIONAL EDU. BLDG 2913579 KAYE 150 20 D ... ... 46 25 06-14-1974 401813 740533 ...
... ... ... ... ... ... ... ... ... ... ... WR1
2908442 ZAORSKI, MR. 2913595 AMER 60 5 D ... ... 11 25 08-03-1976 401826 740426 ... ... ... ..
. ... ... ... ... ... ... ... ... WR1
2911733 RYDER, PAUL 2913579 AJWD 150 10 D 29 367 31 25 12-04-1981 401813 740533 ... ... ... ..
. ... ... ... ... ... ... ... ... WR1
2912070 CUMMINGS, JOHN 2913942 PICK 40 15 G 8 96 11 25 05-14-1982 401720 740346 ... ... ... ..
. ... ... ... ... ... ... ... ... WR1
2912719 GLEASON, PHILIP 2913839 PICK 40 15 G 12 99-2 11 25 04-08-1983 401726 740406 ... N ...
... ... ... ... ... ... ... ... ... WR1
2913187 TINTON WOODS 2913586 KAYE 80 50 G 1 1.03 36 25 09-12-1983 401819 740446 ... N ... ...
... ... ... ... ... ... ... ... WR1
2913524 UNDERWRITERS ADJUSTI 2913863 NEPL 20 0 M ... ... 11 25 03-21-1984 401712 740406 ... N
... ... ... ... ... ... ... ... ... ... WR1
2913525 UNDERWRITERS ADJUSTI 2913863 NEPL 20 0 M ... ... 11 25 03-21-1984 401712 740406 ... N
... ... ... ... ... ... ... ... ... ... WR1
2913526 UNDERWRITERS ADJUSTI 2913863 NEPL 20 0 M ... ... 11 25 03-21-1984 401712 740406 ... N
... ... ... ... ... ... ... ... ... ... WR1
2913527 UNDERWRITERS ADJUSTI 2913863 NEPL 20 0 M ... ... 03 25 03-21-1984 401712 740406 ... N
... ... ... ... ... ... ... ... ... ... WR1
2913528 UNDERWRITERS ADJUSTI 2913863 NEPL 20 0 M ... ... 03 25 03-21-1984 401712 740406 ... N
... ... ... ... ... ... ... ... ... ... WR1
2913529 UNDERWRITERS ADJUSTI 2913863 NEPL 20 0 M ... ... 03 25 03-21-1984 401712 740406 ... N
... ... ... ... ... ... ... ... ... ... WR1
2913551 UNDERWRITERS ADJUSTI 2913863 NEPL 20 0 M ... ... 11 25 03-21-1984 401712 740406 ... N
... ... ... ... ... ... ... ... ... ... WR1
2913552 UNDERWRITERS ADJUSTI 2913863 NEPL 20 0 M ... ... 03 25 03-21-1984 401712 740406 ... N
... ... ... ... ... ... ... ... ... ... WR1
2913553 UNDERWRITERS ADJUSTI 2913863 NEPL 20 0 M ... ... 03 25 03-21-1984 401712 740406 ... N
... ... ... ... ... ... ... ... ... ... WR1
2913581 UNDERWRITER'S ADJUST 2913863 NEPL 50 0 E ... ... 19 25 07-20-1984 401712 740406 ... N
... ... ... ... ... ... ... ... ... ... WR1
2914431 RANNEY SCHOOL 2913586 SCHU 20 100 G 1A 29 36 25 01-15-1985 401819 740446 03-06-1985 N
... 1 235 HOPE ROAD 12-21-1984 25 100 JEFFREYS III WILLIAM J0348 ... ... WR1
2916207 STELLA,JOSEPH 2913839 GREA 220 20 D 2 94 11 25 02-17-1986 401726 740406 11-01-1986 N .
.. ... ... ... ... ... ... ... ... ... WR1
2916766 NJ DOT 2913864 CRAG 20 0 M 3004 93 11 25 06-30-1986 401659 740432 01-11-1993 N ... SA1
 306 MAIN STREET 07-30-1986 41.5 ... ... ... ... ... WR1
2916767 NJ DOT 2913864 CRAG 20 0 M 3004 93 11 25 06-30-1986 401659 740432 01-11-1993 N ... SA4
 306 MAIN STREET 07-30-1986 51.5 ... ... ... ... ... WR1
2916768 NJ DOT 2913864 CRAG 20 0 M 3004 93 11 25 06-30-1986 401659 740432 01-11-1993 N ... SD2
 306 MAIN STREET 07-30-1986 50.3 ... ... ... ... ... WR1
2916769 NJ DOT 2913864 CRAG 20 0 M 3004 93 11 25 06-30-1986 401659 740432 01-11-1993 N ... SD9
 306 MAIN STREET 07-30-1986 40.3 ... ... Page #1 ... WR1
```

Hitlist as of 08-27-2001

2917941 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917942 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917943 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917944 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917945 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917946 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917947 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917948 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917949 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917950 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917951 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2917952 EATONTOWN TOWNSHIP 2913836 TIGE 13 10 W 43 55 11 25 02-10-1987 401739 740406 08-25-198
7 N WR1
2918127 EATONTOWN,TOWNSHIP O 2913836 TIGE 13 20 W 43 55 11 25 03-17-1987 401739 740406 08-25-1
987 N WR1
2918128 EATONTOWN,TOWNSHIP O 2913836 TIGE 13 20 W 43 55 11 25 03-17-1987 401739 740406 08-25-1
987 N WR1
2918129 EATONTOWN,TOWNSHIP O 2913836 TIGE 13 20 W 43 55 11 25 03-17-1987 401739 740406 08-25-1
987 N WR1
2918130 EATONTOWN,TOWNSHIP O 2913836 TIGE 13 20 W 43 55 11 25 03-17-1987 401739 740406 08-25-1
987 N WR1
2918131 EATONTOWN,TOWNSHIP O 2913836 TIGE 13 20 W 43 55 11 25 03-17-1987 401739 740406 08-25-1
987 N WR1
2918132 EATONTOWN,TOWNSHIP O 2913836 TIGE 13 20 W 43 55 11 25 03-17-1987 401739 740406 08-25-1
987 N WR1
2918579 EATONTOWN,TWP.OF 2913836 TIGE 13 140 W 43 55 11 25 05-18-1987 401746 740413 10-05-1987
N WR1
2918580 EATONTOWN,TWP.OF 2913836 TIGE 13 140 W 43 55 11 25 05-18-1987 401746 740413 10-05-1987
N WR1
2918581 EATONTOWN,TWP.OF 2913836 TIGE 13 140 W 43 55 11 25 05-18-1987 401746 740413 10-05-1987
N WR1
2918582 EATONTOWN,TWP.OF 2913836 TIGE 13 140 W 43 55 11 25 05-18-1987 401746 740413 10-05-1987
N WR1
2918583 EATONTOWN,TWP.OF 2913836 TIGE 13 140 W 43 55 11 25 05-18-1987 401746 740413 10-05-1987
N WR1
2918584 EATONTOWN,TWP.OF 2913836 TIGE 13 140 W 43 55 11 25 05-18-1987 401746 740413 10-05-1987
N WR1
2918585 EATONTOWN,TWP.OF 2913836 TIGE 13 140 W 43 55 11 25 05-18-1987 401746 740413 10-05-1987
N WR1
2918586 EATONTOWN,TWP.OF 2913836 TIGE 13 140 W 43 55 11 25 05-18-1987 401746 740413 10-05-1987
N WR1
2918587 EATONTOWN,TWP.OF 2913836 TIGE 13 140 W 43 55 11 25 05-18-1987 401746 740413 10-05-1987
N WR1
2918588 EATONTOWN,TWP.OF 2913836 TIGE 13 140 W 43 55 11 25 05-18-1987 401746 740413 10-05-1987
N WR1

Hitlist as of 08-27-2001

2918589 EATONTOWN,TWP.OF 2913836 TIGE 13 140 W 43 55 11 25 05-18-1987 401746 740413 10-05-1987
N WR1
2918590 EATONTOWN,TWP.OF 2913836 TIGE 13 140 W 43 55 11 25 05-18-1987 401746 740413 10-05-1987
N WR1
2919285 UNDERWRITERS ADJUSTI 2913863 NEPL 40 0 M 45 111 11 25 09-11-1987 401720 740413 09-24-1
987 ... ... WR1
2919286 UNDERWRITERS ADJUSTI 2913863 NEPL 40 0 M 45 111 11 25 09-11-1987 401720 740413 09-24-1
987 ... ... WR1
2919287 UNDERWRITERS ADJUSTI 2913863 NEPL 40 0 M 45 111 11 25 09-11-1987 401720 740413 09-24-1
987 ... ... WR1
2919288 UNDERWRITERS ADJUSTI 2913863 NEPL 40 0 M 45 111 11 25 09-11-1987 401720 740413 09-24-1
987 ... ... WR1
2919540 WOLF PRESS/LINDA DAL 2913829 PICK 200 15 D 8 114 36 25 11-09-1987 401733 740453 02-16-
1988 ... ... WR1
2920979 RANGUALA,ANIS MD 2913942 TIGE 80 25 G 50.02 61 25 25 07-20-1988 401720 740346 01-18-19
89 ... ... WR1
2921634 CHAN, MARVIN 2913918 ENDR 200 15 G 13 97 11 25 10-19-1988 401733 740346 01-20-1989 ...
... ... WR1
2921698 FLOCK, JOHN 2913587 PICK 190 15 R 2-01 55 36 25 11-09-1988 401813 740519 12-09-1988 ..
. ... WR1
2921967 STRAVOLA REALTY 2913819 GEOR 30 0 M 2.01 115 36 25 12-22-1988 401733 740533 05-10-1989
... ... W2 HOPE RD & RT 36 04-10-1989 ... ... WR1
2922685 STRAVOLA REALTY 2913824 GEOR 30 0 M 7.01 115 36 25 05-01-1989 401746 740519 05-10-1989
... ... W1 HOPE RD & ROUTE 36 05-02-1989 ... ... WR1
2922686 STRAVOLA REALTY 2913824 GEOR 30 0 M 7.01 115 36 25 05-01-1989 401746 740519 05-10-1989
... ... W3 HOPE RD & ROUTE 36 05-01-1989 ... ... WR1
2922982 R.M. SHOEMAKER CO. 2913859 PICK 35 0 M 5.02&17A 115 36 25 06-08-1989 401653 740453 08-
04-1989 ... ... 5 750 HOPE ROAD 07-11-1989 37 ... PRIMOST, DAVID S. M1041 ... ... WR1
2923160 STRAVOLA REALTY 2913819 GEOR 30 0 M 7.01 115 36 25 07-17-1989 401733 740533 01-18-1990
... ... WR1
2923339 JACK BIRNBERG & ASSO 2913864 MATH 20 0 B 1,2,3 133-01 11 25 08-23-1989 401706 740440 0
3-31-1989 ... ... B1-8 611 INDUSTRIAL WAY WEST 08-24-1989 20 ... HITZELBERGER, KARL J1530 ...
... WR1
2923916 BOWE,D./ARIS CORP. 2913852 KAVL 20 0 M 21.02 114.01 36 25 12-11-1989 401720 740506 08-
27-1990 ... ... MW1 100 CRESCENT COURT 04-10-1990 9 ... KAVLUNAS, MICHAEL M1328 ... ... WR1
2923917 BOWE,D./ARIS CORP. 2913852 KAVL 20 0 M 21.02 114.01 36 25 12-11-1989 401720 740506 08-
27-1990 ... ... MW2 100 CRESCENT COURT 04-10-1990 13 ... KAVLUNAS, MICHAEL M1328 ... ... WR1
2923918 BOWE,D./ARIS CORP. 2913852 KAVL 20 0 M 21.02 114.01 36 25 12-11-1989 401720 740506 08-
27-1990 ... ... MW3 100 CRESCENT COURT 04-10-1990 12 ... KAVLUNAS, MICHAEL M1328 ... ... WR1
2923919 BOWE,D./ARIS CORP. 2913853 KAVL 20 0 M 21.02 114.01 36 25 12-11-1989 401720 740453 08-
27-1990 ... ... MW4 100 CRESCENT COURT 04-10-1990 12 ... KAVLUNAS, MICHAEL M1328 ... ... WR1
2923920 BOWE,D./ARIS CORP. 2913853 KAVL 20 0 M 21.02 114.01 36 25 12-11-1989 401720 740453 08-
27-1990 ... ... MW5 100 CRESCENT COURT 04-10-1990 12 ... KAVLUNAS, MICHAEL M1328 ... ... WR1
2923921 BOWE,D./ARIS CORP. 2913853 KAVL 20 0 M 21.02 114.01 36 25 12-11-1989 401720 740453 08-
27-1990 ... ... MW6 100 CRESCENT COURT 04-12-1990 12 ... KAVLUNAS, MICHAEL M1328 ... ... WR1
2923922 BOWE,D./ARIS CORP. 2913852 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740506 08-
03-1990 ... ... SB-A 100 CRESCENT COURT 04-11-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923923 BOWE,D./ARIS CORP. 2913852 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740506 08-
03-1990 ... ... SB-B 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923924 BOWE,D./ARIS CORP. 2913852 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740506 08-
03-1990 ... ... SB-C 100 CRESCENT COURT 04-11-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923925 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-
03-1990 ... ... SB-D 100 CRESCENT COURT 04-11-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

Hitlist as of 08-27-2001

2923926 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-03-1990 ... ... SB-E 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923927 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-03-1990 ... ... SB-F 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923928 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-03-1990 ... ... SB-G 100 CRESCENT COURT 04-11-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923929 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-03-1990 ... ... SB-H 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923930 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-03-1990 ... ... SB-I 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923931 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-03-1990 ... ... SB-J 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923932 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-03-1990 ... ... SB-K 100 CRESCENT COURT 04-11-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923933 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-03-1990 ... ... SB-L 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923934 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-03-1990 ... ... SB-M 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923935 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-03-1990 ... ... SB-N 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923936 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-03-1990 ... ... SB-O 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923937 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-03-1990 ... ... SB-P 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923938 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-03-1990 ... ... SB-Q 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923939 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-27-1990 ... ... SB-U 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923940 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-27-1990 ... ... SB-R 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923941 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-27-1990 ... ... SB-S 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923942 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-27-1990 ... ... SB-T 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923943 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-27-1990 ... ... SB-V 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

2923944 BOWE,D./ARIS CORP. 2913853 KAVL 10 0 B 21.02 114.01 36 25 12-11-1989 401720 740453 08-27-1990 ... ... SB-V 100 CRESCENT COURT 04-12-1990 ... ... KAVLUNAS, MICHAEL M1328 ... ... WR1

Hitlist as of 08-27-2001

2924555 STRAVOLA REALTY 2913819 GEOR 30 0 M 7.01 11.5 36 25 04-10-1990 401733 740533 05-14-199
0 ... ... MW3 ... 01-10-1990 20 ... KRAFT, CHAD J. J1402 ... ... WR1
2924890 FORT MONMOUTH 2913823 PARE 30 0 B N/A N/A 11 25 06-12-1990 401800 740453 08-22-1990 ..
. ... MCDC1 SELFM-EH-E BLDG 167 06-19-1990 ... ... GARY PARENT B0082 ... ... WR1
2924891 FORT MONMOUTH 2913823 PARE 30 0 B N/A N/A 11 25 06-12-1990 401800 740453 08-22-1990 ..
. ... MCDC2 SELFM-EH-E BUILDING 167 06-19-1990 ... ... GARY PARENT B0082 ... ... WR1
2924892 FORT MONMOUTH 2913823 PARE 30 0 B N/A N/A 11 25 06-12-1990 401800 740453 08-22-1990 ..
. ... MCDC3 SELFM-EH-E BUILDING 167 ... ... GARY PARENT B0082 ... ... WR1
2924893 FORT MONMOUTH 2913823 PARE 30 0 B N/A N/A 11 25 06-12-1990 401800 740453 08-22-1990 ..
. ... MCDC4 SELFM-EH-E BUILDING 167 06-19-1990 ... ... GARY PARENT B0082 ... ... WR1
2924894 FORT MONMOUTH 2913823 PARE 30 0 B N/A N/A 11 25 06-12-1990 401800 740453 08-22-1990 ..
. ... MCDC5 SELFM-EH-E BUILDING 167 06-19-1990 ... ... GARY PARENT B0082 ... ... WR1
2924895 FORT MONMOUTH 2913823 PARE 30 0 B N/A N/A 11 25 06-12-1990 401800 740453 08-22-1990 ..
. ... MCDC6 SELFM-EH-E BUILDING 167 07-20-1990 ... ... GARY PARENT B0082 ... ... WR1
2924896 FORT MONMOUTH 2913823 PARE 30 0 B N/A N/A 11 25 06-12-1990 401800 740453 08-22-1990 ..
. ... MCDC7 SELFM-EH-E BUILDING 167 06-20-1990 ... ... GARY PARENT B0082 ... ... WR1
2924897 FORT MONMOUTH 2913823 PARE 30 0 B N/A N/A 11 25 06-12-1990 401800 740453 12-03-1990 ..
. ... MCDC8 SELFM-EH-E BUILDING 167 10-12-1990 ... ... GARY PARENT B0082 ... ... WR1
2924898 FORT MONMOUTH 2913823 PARE 30 0 B N/A N/A 11 25 06-12-1990 401800 740453 12-03-1990 ..
. ... MCDC9 SELFM-EH-E BUILDING 167 10-12-1990 ... ... GARY PARENT B0082 ... ... WR1
2924899 FORT MONMOUTH 2913823 PARE 30 0 B N/A N/A 11 25 06-12-1990 401800 740453 12-03-1990 ..
. ... MCDC10 SELFM-EH-E BUILDING 167 10-12-1990 ... ... GARY PARENT B0082 ... ... WR1
2925352 STRAVOLA REALTY 2913819 GEOR 3 0 M 7.01 115 36 25 10-10-1990 401733 740533 11-16-1990
... ... W3C ... 10-15-1990 20 ... GANDOLFO, VINCENT I M1109 ... ... WR1
2925775 BOWE, DAVID 2913852 KAVL 13 0 M 21.02 114.01 36 25 01-29-1991 401720 740506 04-03-1991
... ... MW7 100 CRESCENT COURT 02-17-1991 12 ... KAVLUNAS, MICHAEL M1328 ... ... WR1
2926312 BOWE, DAVID E. 2913852 KAVL 13 0 M 21.02 114.01 36 25 06-06-1991 401720 740506 ... N .
.. MW8 100 CRESCENT COURT 06-10-1991 8 ... KAVLUNAS, MICHAEL M1328 ... ... WR1
2926590 MID ATLANTIC INDUSTR 2913855 WILS 25 0 M 64.01 111 11 25 07-18-1991 401706 740506 07-3
0-1991 N ... MW1 556 INDUSTRIAL WAY WEST 07-19-1991 12 ... WILSON, ALLEN J. J1278 ... ... WR1
2926591 MID ATLANTIC INDUSTR 2913855 WILS 25 0 M 64.01 111 11 25 07-18-1991 401706 740506 07-3
0-1991 N ... MW2 556 INDUSTRIAL WAY WEST 07-19-1991 12 ... WILSON, ALLEN J. J1278 ... ... WR1
2926592 MID ATLANTIC INDUSTR 2913855 WILS 25 0 M 64.01 111 11 25 07-18-1991 401706 740506 07-3
0-1991 N ... MW3 556 INDUSTRIAL WAY WEST 07-19-1991 15 ... WILSON, ALLEN J. J1278 ... ... WR1
2926724 WHIG TOWER CORPORATI 2913859 PICK 60 10 D 5.02 115 36 25 08-08-1991 401653 740453 10-2
8-1991 N ... ... 11299 HOPE ROAD 09-16-1991 87 ... PRIMOST, ALLEN J1407 ... ... WR1
2927443 MONMOUTH CO., NEW JE 2913818 KEYT 25 0 M 21.01 97 36 25 01-21-1992 401733 740546 04-22
-1992 ... ... MW1 143A WAYSIDE ROAD 01-22-1992 17 ... WAYNE LIPSCOMB J1217 ... ... WR1
2927444 MONMOUTH CO., NEW JE 2913818 KEYT 25 0 M 21.01 97 36 25 01-21-1992 401733 740546 04-22
-1992 ... ... MW2 143A WAYSIDE ROAD 01-22-1992 17 ... WAYNE LIPSCOMB J1217 ... ... WR1
2927453 MONMOUTH COUNTY OF 2913818 KEYT 25 0 M 21.01 97 36 25 01-23-1992 401733 740546 04-22-1
992 ... ... MW3 143A WAYSIDE ROAD 01-23-1992 17.5 ... WAYNE LIPSCOMB J1217 ... ... WR1
2927643 DONATO GROUP-MERIDAN 2913598 EMPI 20 0 Z 6.07 135 11 25 03-05-1992 401813 740426 03-17
-1992 ... ... P-1 3 INDUSTRIAL WAY WEST 03-06-1992 24 0 RAAB, MATTHEW J1577 ... ... WR1
2927644 DONATO GROUP-MERIDAN 2913598 EMPI 20 0 Z 6.07 135 11 25 03-05-1992 401813 740426 03-17
-1992 ... ... P-2 3 INDUSTRIAL WAY WEST 03-07-1992 18 0 RAAB, MATTHEW J1577 ... ... WR1
2927645 DONATO GROUP-MERIDAN 2913598 EMPI 20 0 Z 6.07 135 11 25 03-05-1992 401813 740426 03-17
-1992 ... ... P-3 3 INDUSTRIAL WAY WEST 03-06-1992 17 0 RAAB, MATTHEW J1577 ... ... WR1
2927756 COSTCO WHOLESALE COR 2913829 JERB 20 0 Z 7.01 115 36 25 03-31-1992 401733 740453 04-14
-1992 ... ... P1 HOPE ROAD 04-06-1992 14 ... JUCKETT, RONALD J1474 ... ... WR1
2927757 COSTCO WHOLESALE COR 2913829 JERB 20 0 Z 7.01 115 36 25 03-31-1992 401733 740453 04-14
-1992 ... ... P2 HOPE ROAD 04-06-1992 15 ... JUCKETT, RONALD J1474 ... ... WR1
2927758 COSTCO WHOLESALE COR 2913829 JERB 20 0 Z 7.01 115 36 25 03-31-1992 401733 740453 04-14
-1992 ... ... P3 HOPE ROAD 04-06-1992 14 ... JUCKETT, RONALD J1474 ... ... WR1
2928781 MONMOUTH COUNTY OF 2913842 KEYT 25 0 M 21.01 97 36 25 09-22-1992 401720 740546 03-24-1
993 ... ... MW1 6 PINE BROOK ROAD 03-10-1993 17 ... COOK, RONALD J1603 ... ... WR1

Hitlist as of 08-27-2001

2928782 MONMOUTH COUNTY OF 2913842 KEYT 25 0 M 21.01 97 36 25 09-22-1992 401720 740546 03-24-1
993 ... ... MW2 PINE BROOK ROAD 04-30-1993 17 ... COOK, RONALD J1603 ... ... WR1
2929189 WHTG TOWER CORPORATI 2913859 PICK 78 0 Y 5.02 115 36 25 12-30-1992 401653 740453 02-09
-1993 ... ... 1129 HOPE ROAD 02-03-1993 87 ... PRIMOST, DAVID S. M1041 ... ... WR1
2929421 WIN CUP 2913852 ANDE 25 0 M 21.02 114.01 36 25 03-23-1993 401720 740506 05-17-1993 ...
... MW1 46 PARK ROAD 04-08-1993 13 ... STONE, LEONARD J1186 ... ... WR1
2929607 MONMOUTH COUNTY 2913842 KEYT 25 0 M 21.01 97 36 25 04-29-1993 401720 740546 05-24-1993
... ... MW3 PINE BROOK ROAD 05-03-1993 17.5 ... COOK, RONALD J1603 ... ... WR1
2929623 MONMOUTH COUNTY 2913842 KEYT 25 0 M 21.01 97 36 25 05-04-1993 401720 740546 05-24-1993
... ... MW2A 6 PINE BROOK ROAD 05-04-1993 14 0 COOK, RONALD J1603 ... ... WR1
2929742 US ARMY - FT. MONMOU 2913827 DRCT 30 0 M N/A N/A 38 25 06-03-1993 401733 740519 01-10-
1994 ... ... 1 BLDG 2500 06-08-1993 25 0 HESSE, ROBERT M. JR. M1051 ... ... WR1
2929743 US ARMY - FT. MONMOU 2913827 DRCT 30 0 M N/A N/A 38 25 06-03-1993 401733 740519 01-10-
1994 ... ... 2 BLDG 2500 06-10-1993 25 0 HESSE, ROBERT M. JR. M1051 ... ... WR1
2929744 US ARMY - FT. MONMOU 2913827 DRCT 30 0 M N/A N/A 38 25 06-03-1993 401733 740519 01-10-
1994 ... ... 3 BLDG 2500 06-10-1993 25 0 HESSE, ROBERT M. JR. M1051 ... ... WR1
2929745 US ARMY - FT. MONMOU 2913827 DRCT 30 0 M N/A N/A 38 25 06-03-1993 401733 740519 01-10-
1994 ... ... 4 BLDG 2500 06-10-1993 25 0 HESSE, ROBERT M. JR. M1051 ... ... WR1
2929752 WORZALLA PUBLISHING 2913854 MRSI 14 0 M 63 111 11 25 06-03-1993 401706 740519 07-10-19
93 ... ... MW1 556 INDUSTRIAL WAY EAST 06-14-1993 10 ... COX, KENNETH B J1145 ... ... WR1
2929753 WORZALLA PUBLISHING 2913854 MRSI 14 0 M 63 111 11 25 06-03-1993 401706 740519 07-18-19
93 ... ... MW2 556 INDUSTRIAL WAY EAST 06-14-1993 10 ... COX, KENNETH B J1145 ... ... WR1
2929754 WORZALLA PUBLISHING 2913854 MRSI 14 0 M 63 111 11 25 06-03-1993 401706 740519 07-21-19
93 ... ... MW3 556 INDUSTRIAL WAY EAST 06-14-1993 10 ... COX, KENNETH B J1145 ... ... WR1
2930115 ALLIED SIGNAL INC. 2913912 AQUI 45 0 M 26 64 11 25 08-19-1993 401800 740346 09-30-1993
... ... MW36 118 HIGHWAY 35 08-25-1993 12.2 ... WOLF, STEVE J1579 ... ... WR1
2930116 ALLIED SIGNAL INC. 2913912 AQUI 45 0 M 26 64 11 25 08-19-1993 401800 740346 09-30-1993
... ... MW37 118 HIGHWAY 35 08-25-1993 26 ... WOLF, STEVE J1579 ... ... WR1
2930117 ALLIED SIGNAL INC. 2913912 AQUI 45 0 M 26 64 11 25 08-19-1993 401800 740346 09-30-1993
... ... MW38 118 HIGHWAY 35 08-26-1993 37.5 ... WOLF, STEVE J1579 ... ... WR1
2930118 ALLIED SIGNAL INC. 2913912 AQUI 45 0 M 13 64 11 25 08-19-1993 401800 740346 09-30-1993
... ... MW33 118 HIGHWAY 35 08-30-1993 12 ... WOLF, STEVE J1579 ... ... WR1
2930119 ALLIED SIGNAL INC. 2913912 AQUI 45 0 M 13 64 11 25 08-19-1993 401800 740346 09-30-1993
... ... MW34 118 HIGHWAY 35 08-30-1993 22 ... WOLF, STEVE J1579 ... ... WR1
2930120 ALLIED SIGNAL INC. 2913912 AQUI 45 0 M 13 64 11 25 08-19-1993 401800 740346 09-30-1993
... ... MW35 118 HIGHWAY 35 08-30-1993 32.5 ... WOLF, STEVE J1579 ... ... WR1
2930480 EATONTOWN BOARD OF E 2913911 UNIT 20 0 M 43-44 55 11 25 11-18-1993 401800 740400 01-06
-1994 ... ... 1 7 GRANT AVENUE 11-24-1993 15 0 CONOVER, DAVID A. J1521 ... ... WR1
2930494 ALLIED SIGNAL INC. 2913912 REXR 35 0 M 13 64 11 25 11-24-1993 401800 740346 12-14-1993
... ... 39 COLUMBIAN ROAD 11-30-1993 18 0 PUENTE, CARLOS J1129 ... ... WR1
2930495 ALLIED SIGNAL INC. 2913912 REXR 35 0 M 13 64 11 25 11-24-1993 401800 740346 12-14-1993
... ... 40 COLUMBIAN ROAD 11-29-1993 30 0 PUENTE, CARLOS J1129 ... ... WR1
2930514 STANDARD ROOFING INC 2913853 RECO 20 0 M 29 11401 36 25 12-03-1993 401720 740453 01-24
-1994 ... ... 1 100 PARK ROAD 12-13-1993 12 0 CALDWELL, CRAIG M. J1549 ... ... WR1
2930958 U S ARMY FORT MONMOU 2913822 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401800 740506 08-11-
1994 ... ... MW-1 ... 07-19-1994 13 0 BECK, MICHAEL E. J1421 ... ... WR1
2930959 U S ARMY FORT MONMOU 2913822 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401800 740506 08-11-
1994 ... ... MW-2 ... 07-06-1994 15 0 BECK, MICHAEL E. J1421 ... ... WR1
2930960 U S ARMY FORT MONMOU 2913822 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401800 740506 08-11-
1994 ... ... MW-3 ... 07-06-1994 15 0 BECK, MICHAEL E. J1421 ... ... WR1
2930969 U S ARMY FORT MONMOU 2913816 TYRE 15 0 M N/A N/A 38 25 04-05-1994 401746 740533 07-27-
1994 ... ... 07-19-1994 20 0 BECK, MICHAEL E. J1421 ... ... WR1
2931238 MIDMONMOUTH REALTY A 2913828 SALO 15 0 Z 13.02 114 36 25 05-11-1994 401733 740506 06-3
0-1994 ... ... P1 1 COLDSTREAM WAY 05-19-1994 15 0 NEMETZ, JOHN J1330 ... ... WR1
2931239 MIDMONMOUTH REALTY A 2913828 SALO 15 0 M 13.02 114 36 25 05-11-1994 401733 740506 06-3
0-1994 ... ... MW-4 1 COLDSTREAM WAY 05-19-1994 11 0 NEMETZ, JOHN J1330 ... ... WR1

Hitlist as of 08-27-2001

2931240 MIDMONMOUTH REALTY A 2913828 SALO 15 0 M 13.02 114 36 25 05-11-1994 401733 740506 06-3
0-1994 ... ... MW-6 1 COLDSTREAM WAY 05-19-1994 13 0 NEMETZ, JOHN J1330 ... ... WR1
2931561 EATONTOWN BOROUGH OF 2913599 GARS 20 0 M 2 54 11 25 07-05-1994 401813 740413 08-30-199
4 ... ... 1 131 LEWIS ST 08-16-1994 14 0 LOVENBERG, WILLIAM M J1610 ... ... WR1
2931562 EATONTOWN BOROUGH OF 2913599 GARS 20 0 M 2 54 11 25 07-05-1994 401813 740413 08-30-199
4 ... ... 2 131 LEWIS ST 08-16-1994 13 0 LOVENBERG, WILLIAM M J1610 ... ... WR1
2931563 EATONTOWN BOROUGH OF 2913599 GARS 20 0 M 32 12 11 25 07-05-1994 401813 740413 08-30-19
94 ... ... 1 131 LEWIS ST 08-15-1994 13 0 LOVENBERG, WILLIAM M J1610 ... ... WR1
2932158 FORT MONMOUTH GOLF C 2913597 PICK 60 15 G NA NA 11 25 09-27-1994 401813 740440 11-04-1
994 ... ... TINTON AVENUE 10-20-1994 50 0 PRIMOST, DAVID S. M1041 ... ... WR1
2932159 FORT MONMOUTH GOLF C 2913597 PICK 60 15 G NA NA 11 25 09-27-1994 401813 740440 11-04-1
994 ... ... TINTON AVENUE 10-27-1994 50 0 PRIMOST, DAVID S. M1041 ... ... WR1
2932160 FORT MONMOUTH GOLF C 2913597 PICK 60 15 G NA NA 11 25 09-27-1994 401813 740440 11-04-1
994 ... ... TINTON AVENUE 10-19-1994 50 0 PRIMOST, DAVID S. M1041 ... ... WR1
2932161 FORT MONMOUTH GOLF C 2913597 PICK 60 15 G NA NA 11 25 09-27-1994 401813 740440 11-04-1
994 ... ... TINTON AVENUE 10-20-1994 45 0 PRIMOST, DAVID S. M1041 ... ... WR1
2932162 FORT MONMOUTH GOLF C 2913597 PICK 60 15 G NA NA 11 25 09-27-1994 401813 740440 11-04-1
994 ... ... TINTON AVENUE 10-27-1994 48 0 PRIMOST, DAVID S. M1041 ... ... WR1
2932163 FORT MONMOUTH GOLF C 2913597 PICK 60 15 G NA NA 11 25 09-27-1994 401813 740440 11-04-1
994 ... ... TINTON AVENUE 10-20-1994 45 0 PRIMOST, DAVID S. M1041 ... ... WR1
2932590 U. S. ARMY (DIRECTOR 2913824 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401746 7405
19 04-20-1995 ... ... MW-26 BLDF 167 12-19-1994 15 0 REEVE, WELLINGTON J1455 ... ... WR1
2932591 U. S. ARMY (DIRECTOR 2913824 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401746 7405
19 04-20-1995 ... ... MW-27 BLDF 167 12-19-1994 15 0 REEVE, WELLINGTON J1455 ... ... WR1
2932592 U. S. ARMY (DIRECTOR 2913824 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401746 7405
19 04-20-1995 ... ... MW-28 BLDF 167 12-19-1994 15 0 BURGER, JR., STEVAN J1624 ... ... WR1
2932593 U. S. ARMY (DIRECTOR 2913824 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401746 7405
19 04-20-1995 ... ... MW-29 BLDF 167 12-19-1994 15 0 BURGER, JR., STEVAN J1624 ... ... WR1
2932594 U. S. ARMY (DIRECTOR 2913824 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401746 7405
19 04-20-1995 ... ... MW-30 BLDF 167 12-16-1994 16 0 REEVE, WELLINGTON J1455 ... ... WR1
2932595 U. S. ARMY (DIRECTOR 2913824 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401746 7405
19 04-20-1995 ... ... MW-31 BLDF 167 12-16-1994 15 0 BURGER, JR., STEVAN J1624 ... ... WR1
2932596 U. S. ARMY (DIRECTOR 2913824 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401746 7405
19 04-20-1995 ... ... MW-32 BLDF 167 12-16-1994 15 0 BURGER, JR., STEVAN J1624 ... ... WR1
2932597 U. S. ARMY (DIRECTOR 2913824 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401746 7405
19 04-20-1995 ... ... MW-33 BLDF 167 12-15-1994 15 0 BURGER, JR., STEVAN J1624 ... ... WR1
2932598 U. S. ARMY (DIRECTOR 2913824 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401746 7405
19 04-20-1995 ... ... MW-08 BLDF 167 01-10-1995 15 0 BURGER, JR., STEVAN J1624 ... ... WR1
2932599 U. S. ARMY (DIRECTOR 2913831 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401800 7404
40 04-20-1995 ... ... MW-34 BLDF 167 01-03-1995 15 0 REEVE, WELLINGTON J1455 ... ... WR1
2932600 U. S. ARMY (DIRECTOR 2913831 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401800 7404
40 04-20-1995 ... ... MW-35 BLDF 167 01-03-1995 15 0 REEVE, WELLINGTON J1455 ... ... WR1
2932601 U. S. ARMY (DIRECTOR 2913831 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401800 7404
40 04-20-1995 ... ... MW-36 BLDF 167 01-04-1995 15 0 REEVE, WELLINGTON J1455 ... ... WR1
2932602 U. S. ARMY (DIRECTOR 2913831 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401800 7404
40 04-20-1995 ... ... MW-06 BLDF 167 01-10-1995 14 0 REEVE, WELLINGTON J1455 ... ... WR1
2932603 U. S. ARMY (DIRECTOR 2913831 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401800 7404
0 04-20-1995 ... ... MW-09 BLDF 167 01-10-1995 15 0 BURGER, JR., STEVAN J1624 ... ... WR1
932604 U. S. ARMY (DIRECTOR 2913821 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401800 7405
04-20-1995 ... ... MW-07 BLDF 167 01-10-1995 15 0 REEVE, WELLINGTON J1455 ... ... WR1
2605 U. S. ARMY (DIRECTOR 2913821 ANDE 25 0 M 1,1,8.01 1,53,54 11 25 11-29-1994 401800 7405
04-20-1995 ... ... MW-10B BLDF 167 01-10-1995 15 0 BURGER, JR., STEVAN J1624 ... ... WR1
894 MONMOUTH CO. BLDGS. 2913843 PLAN 20 0 M 21.01 97 36 25 03-01-1995 401720 740533 04-17-
... ... MW-4 PINE BROOK ROADS 03-29-1995 17 0 ASSANTE, MICHAEL L. M0775 ... ... WR1
95 MONMOUTH CO. BLDGS. 2913843 PLAN 20 0 M 21.01 97 36 25 03-01-1995 401720 740533 04-17-
... ... MW-5 PINE BROOK ROADS 03-29-1995 17 30 ASSANTE, MICHAEL L. M0775 ... ... WR1

Hitlist as of 08-27-2001

2932896 MONMOUTH CO. BLDGS. 2913843 PLAN 20 0 V 21.01 97 36 25 03-01-1995 401720 740533 05-11-1995 ... ... SVE-1 PINE BROOK ROAD 03-30-1995 10 0 ASSANTE, MICHAEL L. M0775 ... ... WR1
2932897 MONMOUTH CO. BLDGS. 2913843 PLAN 20 0 J 21.01 97 36 25 03-01-1995 401720 740533 04-27-1995 ... ... WR1
2933763 US ARMY - FORT MONMO 2913597 PARE 20 0 M N/A N/A 38 25 07-19-1995 401813 740440 10-02-1995 ... ... 2018 BLDG 2018 09-12-1995 16 0 PARENT, GARY J1540 ... ... WR1
2934753 MID MONMOUTH REALTY 2913829 PARE 15 0 M 13B,1201 114 36 25 01-10-1996 401733 740453 02-14-1996 ... ... MW-1A 1 COLDSTREAM WAY & PINE B 02-10-1996 10.5 0 PARENT, GARY J1540 ... ... WR1
2934754 MID MONMOUTH REALTY 2913829 PARE 15 0 M 13B,1201 114 36 25 01-10-1996 401733 740453 02-14-1996 ... ... MW6 1 COLDSTREAM WAY & PINE B 02-10-1996 11 0 PARENT, GARY J1540 ... ... WR1
2934755 MID MONMOUTH REALTY 2913829 PARE 15 0 M 13B,1201 114 36 25 01-10-1996 401733 740453 02-14-1996 ... ... MW 7 1 COLDSTREAM WAY & PINE B 02-10-1996 9.5 0 PARENT, GARY J1540 ... ... WR1
2935236 GENLACH, EDWARD 2913863 PICK 100 15 G 1 93.7 11 25 04-23-1996 401720 740413 05-28-1996 ... ... 22 SHERWOOD DR. 05-06-9196 119 12 PRIMOST, BENJAMIN J13762 ... ... WR1
2935462 MATZEL & MUMFORD @ W 2913579 PICK 180 15 D 1.02 55 36 25 05-29-1996 401813 740533 10-09-1996 ... ... POND VIEW DR. 08-22-1996 181 20 PRIMOST, BENJAMIN J13762 ... ... WR1
2936178 MATZEL & MUMFORD @ W 2913579 PICK 180 15 D 1.10 55 36 25 10-31-1996 401813 740533 03-26-1997 ... ... POND VIEW DR. 01-22-1997 182 0 PRIMOST, BENJAMIN J13762 ... ... WR1
2936179 MATZEL & MUMFORD @ W 2913579 PICK 180 15 D 1.09 55 36 25 10-31-1996 401813 740533 03-17-1997 ... ... POND VIEW DR. 01-15-1997 188 20 PRIMOST, BENJAMIN J13762 ... ... WR1
2936202 MATZEL & MUMFORD @ W 2913579 PICK 180 15 D 1.03 55 36 25 11-07-1996 401813 740533 06-12-1997 ... ... POND VIEW DR 05-01-1997 182 20 PRIMOST, BENJAMIN J13762 ... ... WR1
2936204 MATZEL & MUMFORD @ W 2913579 PICK 180 15 D 1.08 55 36 25 11-07-1996 401813 740533 06-17-1997 ... ... POND VIEW DR 04-07-1997 181 20 PRIMOST, BENJAMIN J13762 ... ... WR1
2936284 MATZEL & MUMFORD @ W 2913579 PICK 180 15 D 1.01 55 36 25 11-25-1996 401813 740533 05-20-1997 ... ... POND VIEW DR 03-20-1997 182 20 PRIMOST, BENJAMIN J13762 ... ... WR1
2936563 MONMOUTH CTY DEPT OF 2913843 TABA 10 0 V 21.01 97 36 25 02-05-1997 401720 740533 03-11-1997 ... ... PINE BROOK RD 03-03-1997 11 0 SHINN, WILLIAM A. JR M1289 ... ... WR1
2936564 MONMOUTH CTY DEPT OF 2913843 TABA 6 0 V 21.01 97 36 25 02-05-1997 401720 740533 03-11-1997 ... ... VP-1 PINE BROOK RD 02-27-1997 4 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2936565 MONMOUTH CTY DEPT OF 2913843 TABA 6 0 V 21.01 97 36 25 02-05-1997 401720 740533 03-11-1997 ... ... VP-2 PINE BROOK RD 02-27-1997 5 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2936566 MONMOUTH CTY DEPT OF 2913843 TABA 6 0 V 21.01 97 36 25 02-05-1997 401720 740533 03-11-1997 ... ... VP-3 PINE BROOK RD 02-27-1997 5 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2936567 MONMOUTH CTY DEPT OF 2913843 TABA 6 0 V 21.01 97 36 25 02-05-1997 401720 740533 03-11-1997 ... ... VP-4 PINE BROOK RD 02-27-1997 5 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2936568 MONMOUTH CTY DEPT OF 2913843 TABA 35 0 V 21.01 97 36 25 02-05-1997 401720 740533 03-11-1997 ... ... AS-2 PINE BROOK RD 02-28-1997 30 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2936569 MONMOUTH CTY DEPT OF 2913843 TABA 35 0 V 21.01 97 36 25 02-05-1997 401720 740533 03-11-1997 ... ... AS-3 PINE BROOK RD 02-28-1997 28 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2936570 MONMOUTH CTY DEPT OF 2913843 TABA 35 0 V 21.01 97 36 25 02-05-1997 401720 740533 03-11-1997 ... ... AS-4 PINE BROOK RD 03-03-1997 28 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2936571 MONMOUTH CTY DEPT OF 2913843 TABA 20 0 M 21.01 97 36 25 02-05-1997 401720 740533 03-11-1997 ... ... MW-6 PINE BROOK RD 02-27-1997 15 0 HITZELBERGER, CHARLE M1066 ... ... WR1
2936653 MATZEL & MUMFORD @ W 2913579 PICK 180 15 D 1.07 55 36 25 02-28-1997 401813 740533 10-06-1997 ... ... POND VIEW DRIVE 08-19-1997 180 20 PRIMOST, BENJAMIN M13762 ... ... WR1
2936654 MATZEL & MUMFORD @ W 2913579 PICK 180 15 D 1.04 55 36 25 02-28-1997 401813 740533 06-27-1997 ... ... POND VIEW DRIVE 05-23-1997 181 20 PRIMOST, BENJAMIN J13762 ... ... WR1
2936658 MATZEL & MUMFORD @ W 2913579 PICK 180 15 D 1.05 55 36 25 03-04-1997 401813 740533 07-24-1997 ... ... POND VIEW DR 06-18-1997 165 20 PRIMOST, BENJAMIN J13762 ... ... WR1
2936753 LAMONTS CORP 2913852 TOTA 10 0 M 31.02 114.01 36 25 03-31-1997 401720 740506 04-21-1997 ... ... MW-7R 46 PARK RD 04-08-1997 8 0 KAVLUNAS, MICHAEL J. M1328 ... ... WR1
2936968 RECUPERO, RICHARD 2913862 PUTM 100 20 G 7 93.8 11 25 05-20-1997 401720 740426 08-06-1997 ... ... 1 1 SHERWOOD DRIVE 07-18-1997 80 20 PUTMAN, KARL J1054 ... ... WR1

Hitlist as of 08-27-2001

2936969 MARUCCI, JOSEPH 2913862 PUTM 100 20 G 6 93.8 11 25 05-20-1997 401720 740426 08-06-1997 ... ... 1 5 SHERWOOD DRIVE 07-26-1997 75 20 PUTMAN, KARL J1054 ... ... WR1
2937036 MONMOUTH CO. DEPT. O 2913843 TABA 10 0 V 21.01 97 36 25 06-04-1997 401720 740533 06-23-1997 ... ... SVE-3 PINE BROOK RD. 06-20-1997 7 0 BOUTOILLE, ANDRE H. J1466 ... ... WR1
2937037 MONMOUTH CO. DEPT. O 2913843 TABA 35 0 V 21.01 97 36 25 06-04-1997 401720 740533 06-23-1997 ... ... PINE BROOK RD. 06-20-1997 23 0 BOUTOILLE, ANDRE H. J1466 ... ... WR1
2937899 DIRACTORATE OF PUBLI 2913822 HPDR 50 0 B N/A N/A 38 25 11-20-1997 401800 740506 12-17-1997 ... ... B-1 BLDG. 167 12-08-1997 47 0 PRATT, MICHAEL A. J1053 ... ... WR1
2938654 MONMOUTH REG. HIGH S 2913584 PICK 180 15 U 1.11 55 36 25 05-15-1998 401826 740519 ... ... ONE NORMAN J FIELD WAY WR1
2938660 ALEMANY, CARLOS 2913862 TIGE 100 20 G 26 93.6 11 25 05-15-1998 401720 740426 ... ... 145 NOTTINGHAM DRIVE WR1
2939028 KELLY, RUSSELL D. 2913587 PICK 180 15 1 7 54 36 25 07-30-1998 401813 740519 ... ... 521 TINTON AVE. WR1

Tinton Falls 1 MISE

29.13.815

Form 87-5M-4-49

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT
Division of Water Policy & Supply

Permit No. 29-151
Application No.
County Mon
29.13.815

WELL RECORD

1. OWNER James B. Durand ADDRESS 635 Green Street Newark 65
   Owner's Well No. 1 SURFACE ELEVATION ~~80 ft~~ Feet (Above mean sea level)
2. LOCATION Selling between Tinton Falls & Pine Brook, in New Shrewsbury
3. DATE COMPLETED July 15 1951 DRILLER Walter Colt
4. DIAMETER: Top 4 Inches Bottom 4 Inches TOTAL DEPTH 68'6" Feet
5. CASING: Type standard black steel Diameter 4" Inches Length 49'6" Feet
6. SCREEN: Type None Size of Opening Diameter Inches Length Feet
   Range in Depth {Top Feet, Bottom Feet} Geologic Formation Tinton Rock
   Tail piece: Diameter Inches Length Feet
7. WELL FLOWS NATURALLY Gallons per Minute at Feet above surface
   Water rises to Feet above surface
8. RECORD OF TEST: Date July 15 1951 Yield 10 gal Gallons per minute
   Static water level before pumping 20 ft Feet below surface
   Pumping level 25 feet below surface after 4 hours pumping
   Drawdown 5 Feet Specific Capacity 2 Gals. per min. per ft. of drawdown
   How Pumped deep well plunger pump How measured 5 gal pail
   Observed effect on nearby wells
9. PERMANENT PUMPING EQUIPMENT:
   Type shallow well jet pump Capacity 5 Gallons per minute
   How Driven electric Horse Power 1/4 R.P.M. 3500
   Depth of pump in well 30 Feet Depth of foot piece in well Feet
10. USED FOR domestic AMOUNT {Average 2 Gallons Daily, Maximum Negligible Gallons Daily}
11. QUALITY OF WATER P.H. 7.0 but Iron Sample: Yes No.
    Taste Yes Odor Color Temperature °F
12. LOG (Give details on back of sheet or on separate sheet) Are samples available?
13. SOURCE OF DATA
14. DATA OBTAINED BY Walter Colt DATE July 15 1951

(Note: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

0-6	fill, clay & gravel	
6-8	yellow sand ← start of Vicksburg	Tvt
8-18	" " & water	
18-22	" " finer sand &	
22-36	black clay & silt	Tbt
36-43	glauconite, gray sand & water	
43-51	much green, glauconitic sand & marl	
51-53	very green marl & lots of glauconite	
53-67	black clay, glauconite & fine sand	Tinton fm
67-68'6"	sand turning green	

SEP 11 1957

29.13.8.5.4

Form 87-5M

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT
Division of Water Policy & Supply
WELL RECORD

Permit No. 29-1121
Application No. _____
County Monmouth
29.13.854

1. OWNER N.J. Hway Auth ADDRESS 1035 Pkway Ave. Trenton
   Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Toll Area 5 (Shrewsbury) #3B, Garden St. Pkway
3. DATE COMPLETED 8-4-54 DRILLER C.W. Layman, Bethpage, L.I.
4. DIAMETER: Top 4 Inches Bottom 4 Inches TOTAL DEPTH 69 Feet
5. CASING: Type Wrought Steel Diameter 4 Inches Length ~~[illegible]~~ 49'5" Feet
   Size of Top 8'-18 slot
6. SCREEN: Type Everdur Opening Bd. 10-20" Diameter 4 Inches Length 19'2¼" Feet
   Range in Depth { Top 46 Feet, Bottom 65 Feet } Geologic Formation Vincentown
   Tail piece. Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date 8-4-54 Yield 22.2 Gallons per minute
   Static water level before pumping 19'3" Feet below surface
   Pumping level 31' feet below surface after 12 hours pumping
   Drawdown 11'8½" Feet Specific Capacity 1.9 Gals. per min. per ft. of drawdown
   How Pumped _____ How measured _____
   Observed effect on nearby wells —
9. PERMANENT PUMPING EQUIPMENT:
   Type JT Capacity 10 Gallons per minute
   How Driven Elect Horse Power 3/4 R.P.M. 3450
   Depth of pump in well 35 Feet Depth of Foot piece in well — Feet
   Depth of Air Line in well — Feet Type of Meter on Pump —
10. USED FOR General AMOUNT { Average _____ Gallons Daily; Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No. _____
    Taste _____ Odor _____ Color _____ Temperature 51.8 °F
12. LOG Attached (Give details on back of sheet or on separate sheet) Are samples available? Yes
13. SOURCE OF DATA Files
14. DATA OBTAINED BY Alu Kreutman DATE 2-15-55

(Note: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

SUPPLY WELL LOG Site 4-3-6 29.13.854 29-1121

WPCC No.

Job 41 GARDEN STATE PARKWAY Address TOLL AREA #3B, SHREWSBURY

Date Started 7-21-54 Completed 7-28-54 Driller APPLEGATE

Diameter 4" In. 29.13.854 2901121 Measured from Grade ☑ Yes ☐ No

Depth 65' Ft. 0" In. Above Ft. In. Below Ft. In.

Static Level 19' Ft. 3" In. Elevation 6.9.89' Ft.

	STRATUM THICKNESS	STRATUM DEPTH	TEMPERATURE SAND	TEMPERATURE WATER
FILL	20'	20'		
GREENISH YELLOW SAND WITH CLAY	5'	25'		
FINE & SHARP GREENISH YELLOW SAND WITH CLAY & LITTLE MICA	7'	37'		
FINE GREEN GLAUCONITIC MICACEOUS SAND WITH CLAY & SILT	3'	40'		
FINE YELLOWISH GREEN SAND WITH GLAUCONITE, CLAY, SILT & LESS MICA	4'	44'		
FINE GREEN SAND & CLAY, SILT WITH MICA	21'	65'		
FINE GREEN SAND, DARKER, MORE CLAY, SILT & MICA	10'	75'		
FINE GLAUCONITIC SAND WITH CLAY, SILT & MICA	6'	81'		

SKETCH OF LOCATION

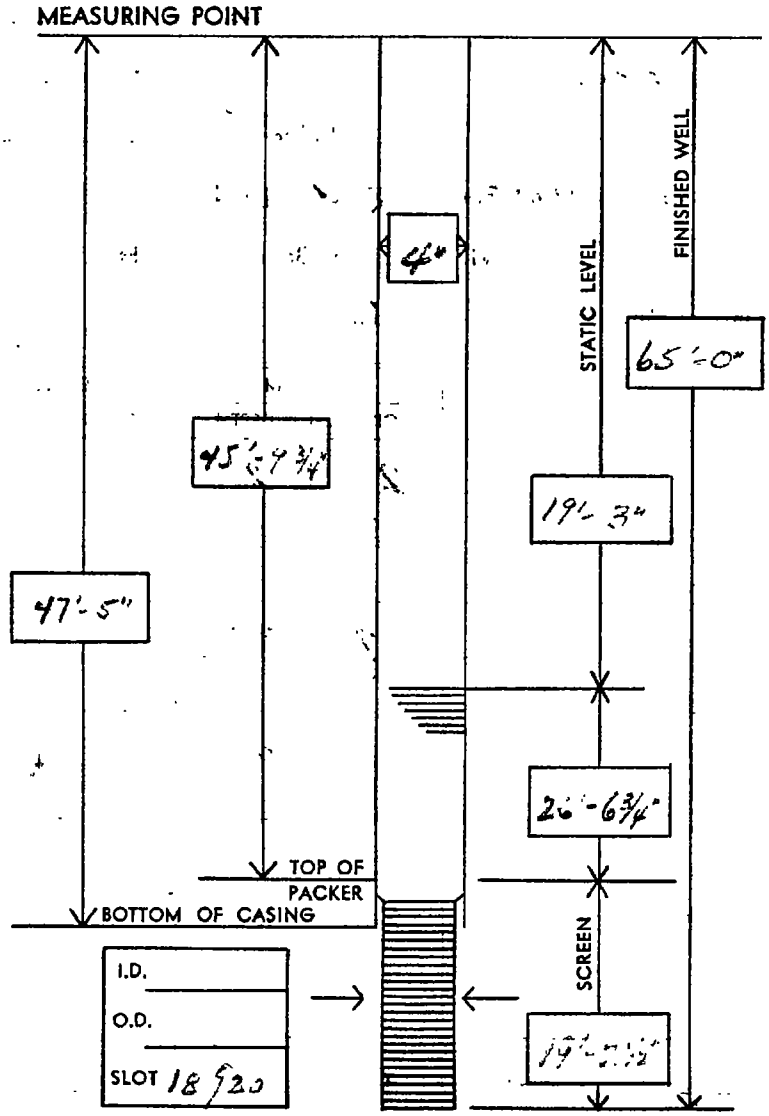
NOTE — If outer casings are used state diameter, length and whether or not left in the ground

NOTE — If screen is finished off with nipple, give exact description of top of nipple—size and male or female thread

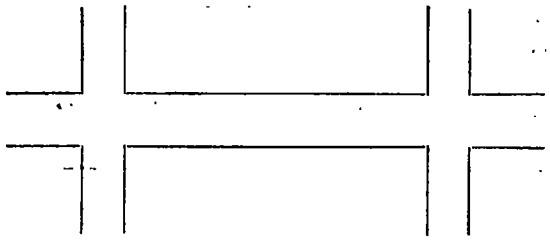
REMARKS —

VARIATION

WELREC 107 1173



SKETCH OF LOCATION



Show North-Point

Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Type of Screen—
8' OF 18 SLOT (TOP)
10' OF 20' SLOT (BOTTOM)

NOTE—If outer casings are used state diameter, length and whether or not left in the ground.

NOTE—If screen is finished off with riser, give exact description of top of riser—(size and male or female thread.)

REMARKS—

W405-7/53-3M

29-13-854
29-1121

ESTABLISHED 1880

United States Testing Company, Inc.

HOBOKEN, N. J.
TELEPHONE HOBOKEN 3-3166

NUMBER
76643-A
(Refer to this number)

REPORT 29.13.854 2901121

August 23, 1954.

Client: New Jersey Highway Authority
c/o Miller-Warden Associates
Box 19-B - R.D. #1
Eatontown, New Jersey.

Toll Area 3B

Subject: Well Water Survey -- Sample taken from Shrewsbury by United States Testing Company, Inc. Representative on August 4, 1954.

PURPOSE OF TEST:

The object of the test was to analyze the water for conformance to Article 2.3.10 Water Quality Guarantee of the Garden State Parkway supplementary specifications Contract No. 148 - Sections 7, 8, 10 and 11.

METHOD OF TEST:

The tests were conducted in accordance with the Standard Methods for the Examination of Water and Sewage, 9th Edition, American Public Health Association.

RESULTS OF TEST:

	Results	Requirements
Bacteriological	Negative	No evidence of presence of the Coliform group.
	Results	**Requirements**
Physical		
Turbidity	25 ppm	Less than 5 ppm (silica scale)
	Results	**Requirements**
Chemical Constituents		
Arsenic	Not found	Less than 0.05 ppm
Selenium	Not found	Less than 0.05 ppm
Hexavalent Chromium	Not found	Less than 0.05 ppm
Zinc	Less than 1 ppm	Less than 15 ppm
Iron } combined	0.47 ppm	
Manganese } combined	Not found	
Chloride (as Cl)	14.2	Less than 3.0 ppm Less than 250 ppm

Page of 2

Supervised by C.A. Crocker
Chemical Department.

United States Testing Company, Inc.

BY M.J. Maziarski

COPIES AND RECORDS ARE FOR THE EXCLUSIVE USE OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND ... TO ANY OTHERS OR THE USE OF THE NAME OF UNITED STATES TESTING COMPANY, INC. WITHOUT OUR PRIOR WRITTEN APPROVAL. ... REPORTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR MATERIALS.

C 11AR1 7 55 25

29-13-854
29-1121

ESTABLISHED 1880

United States Testing Company, Inc.

HOBOKEN, N. J.
TELEPHONE: HOBOKEN 3-3186

29,13.854
2901121

NUMBER
76643-A
(Refer to this number)

REPORT

August 23, 1954.

Client: New Jersey Highway Authority
c/o Miller-Warden Associates
Box 19-B - R.D. #1
Eatontown, New Jersey.

Subject: Well Water Survey -- Sample taken from Shrewsbury by United States Testing Company, Inc., representative on August 4, 1954.

Chemical Constituents (Cont'd)

	Results	Requirements
Sulphates (as SO_4)	22.0 ppm	Less than 250 ppm
Phenolic Compounds (as Phenol)	Not found	Less than 0.001 ppm
Total Solids	133 ppm	Less than 1000 ppm
Magnesium	1.0 ppm	Less than 125 ppm
Nitrates (as NO_3)	0.1 ppm	Less than 50 ppm

CONCLUSION:

The water sample, identified as above does not meet the turbidity requirements of the Garden State Parkway Contract No. 148 - Section 7, 8, 10 and 11.

CONTINUED - PAGE #2

OUR LETTERS AND REPORTS ARE FOR THE EXCLUSIVE USE OF THE CLIENT TO WHOM THEY ARE ADDRESSED, AND THEIR COMMUNICATION TO ANY OTHERS, OR THE USE OF THE NAME OF UNITED STATES TESTING COMPANY, INC., MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS.

C (1981-6.53)

29-13-854
29-1121

C. W. LAUMAN & CO., INC.

WATER ANALYSIS

No. 531

BETHPAGE, L. I.
Hicksville 3-2305

29.13.854
290 1121

50 CHURCH ST., N. Y. C.
Digby 9-0318

Date 8/25/54

Name Garden State Parkway

Address Toll Area 3B - Shrewsbury

Source of Sample 12 hr test

Collection Date	Point of Collection
1. 8/4/54	pump discharge
2.	
3.	
4.	

		1	2	3	4
Hydrogen Iron Conc. (pH)		7.3			
Free Carbon Dioxide, as CO_2	ppm	7.8			
Alkalinity "P", as $CaCO_3$	ppm	0			
Total Alkalinity, as $CaCO_3$	ppm	78.0			
Hardness, total, as $CaCO_3$	ppm	92.			
Chlorides, as Cl	ppm	6			
Iron, as Fe	ppm	1.2			
Nitrates, as N	ppm	0			
Turbidity, as SiO_2	ppm	7.2			
Hexavalent Chromium	ppm	0.0			

Remarks: Corrosion index 19.9 -- non corrosive - low CO_2 and high tot. alk.
Iron high - Treatment recommended.

Analyzed by HRB

Date 8/25/54

C. W. LAUMAN & CO., INC.

by EDA

29.13.8.12.

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
Division of Water Policy & Supply
WELL RECORD

Permit No. 29-1154
Application No.
County Monmouth
29.13.812

1. OWNER N.J. Hway Auth ADDRESS 1035 Pkway Ave, Trenton
Owner's Well No. SURFACE ELEVATION Feet (Above mean sea level)

2. LOCATION Temp. Service Area, Garden St. Pkway & Tinton Rd, N.J.

3. DATE COMPLETED 8-11-54 DRILLER CW Lawrence, Bethpage, L.I.

4. DIAMETER: Top 6 Inches Bottom 4 Inches TOTAL DEPTH ~~184'6"~~ 200' Feet

5. CASING: Type Wrought Steel Diameter 6 Inches Length 170 Feet

6. SCREEN: Type ~~Cook~~ Everdur Size of Opening 35 S/. Diameter 4 Inches Length 16 Feet
Range in Depth { Top 168'6" Feet Bottom 184'6" Feet } Geologic Formation Red Bank
Tail piece. Diameter Inches Length Feet

7. WELL FLOWS NATURALLY Gallons per Minute at Feet above surface
Water rises to Feet above surface

8. RECORD OF TEST: Date 8-11-54 Yield 22.3 Gallons per minute
Static water level before pumping 24 Feet below surface
Pumping level 90 feet below surface after 12 hours pumping
Drawdown 66 Feet Specific Capacity .31 Gals. per min. per ft. of drawdown
How Pumped How measured
Observed effect on nearby wells —

9. PERMANENT PUMPING EQUIPMENT:
Type DWT Capacity 30 Gallons per minute
How Driven Elec Horse Power 3 R.P.M. 1760
Depth of pump in well 122'9" Feet Depth of Foot piece in well 122'9"-132'9" Feet
Depth of Air Line in well 120 Feet Type of Meter on Pump

10. USED FOR Gen Supply AMOUNT { Average Gallons Daily / Maximum Gallons Daily }

11. QUALITY OF WATER Sample: Yes No.
Taste Odor Color Temperature °F

12. LOG Attached Are samples available? Yes
(Give details on back of sheet or on separate sheet)

13. SOURCE OF DATA Drill records, files

14. DATA OBTAINED BY Alex Kreitman DATE 2-15-55

(Note: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13-812

SUPPLY WELL LOG

WPCC No. 29-1154

Job 4 J GARDEN STATE PARKWAY Address TINTON AVE. (TEMP. SERVICE AREA)

Date Started 6-18-54 Completed 7-14-54 Driller TALLMAN & LEE

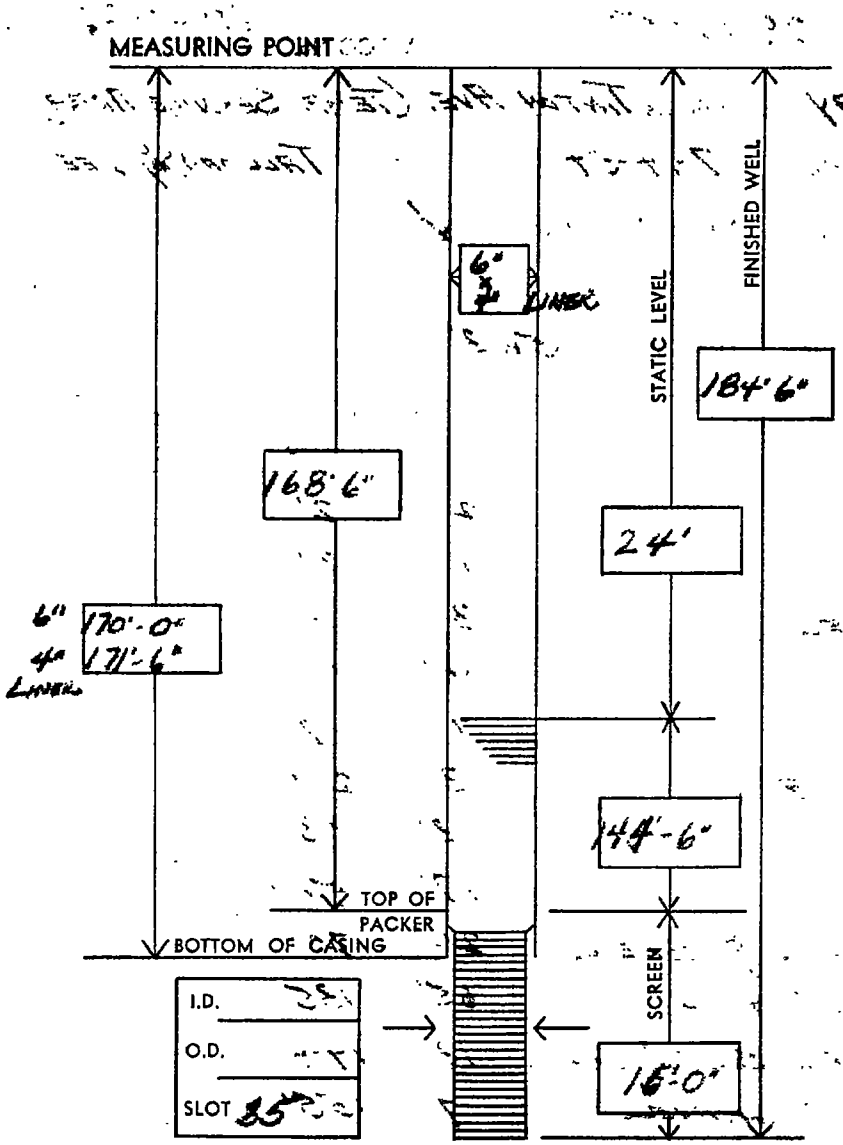
Diameter 6" x 4" In. 29.13.812 29-01154 Measured from Grade ☑ Yes ☐ No

Depth 6" — 170' Ft. 0" In. 4" — 171' 6" Above Ft. In. Below Ft. In.

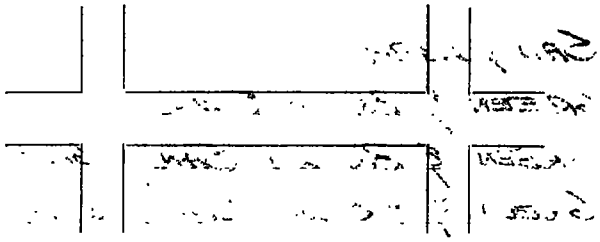
Static Level 24' Ft. In. Elevation 56.3' Ft.

	STRATUM		TEMPERATURE	
	THICKNESS	DEPTH	SAND	WATER
SANDY LOAM	2'	2'		
GREEN & BROWN SAND	1'	3'	14 hr.	
GREEN & BROWN SAND & GRAVEL	3'	6'	"	
GREEN & BROWN SANDY CLAY	4'	10'	"	
BLACK SILT, CLAY & MICA	7'	17'	"	
GREEN SANDY CLAY, SILT & MICA	3'	20'	"	
GREEN MARL, SOME WATER	13'	33'	"	
BLACK SILT, MICA & CLAY	17'	50'	Tinton	
BLACK MARL, SILT, CLAY, FEW GRITS & SHELL	20'	70'	" " R.B.	
GRAY SILT, CLAY, GRITS, SHELL & MICA	65'	135'	Red Bank	
LIGHT GRAY CLAY, BLACK MARL, SILT & SHELL	13'	148'	"	
BLACK SILT, CLAY, SOME SAND & GRAVEL	7'	155'	"	
SILT, VERY FINE SAND & LAYERS OF CLAY, SHELL & MICA	19	174	5" screen	
MEDIUM COARSE SAND, LAYERS OF CLAY, SILT & MICA	26'	200'		

WELREC 107 0959



SKETCH OF LOCATION



Show North Point

Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Type of Screen— Johnson Engineering 4" x 16'

NOTE — If outer casings are used state diameter, length and whether or not left in the ground.

NOTE — If screen is finished off with riser, give exact description of top of riser—(size and male or female thread.)

REMARKS—

W405-7/53-3M

WELREC 107 0960

29.13.812 29-1154

ESTABLISHED 1880

United States Testing Company, Inc.

HOBOKEN, N. J.

TELEPHONE HOBOKEN 3-3166

NUMBER
76643-E
(Refer to this number)

REPORT 29.13.812 29-01154

August 27, 1954.

Client: New Jersey Highway Authority
C/o Miller-Warden Associates
Box 19 -B R.D. #1
Eatontown, New Jersey

Subject: Well Water Survey -- Sample taken from Tinton Ave. Area
By United States Testing Company representative on 8/13/54.

Purpose of Test:

The object of the test was to analyze the water for conformance to Article 2.3.10 Water Quality Guarantee of the Garden State Parkway supplementary specifications Contract No. 148 - Sections 7, 8, 10 and 11.

Method of Test:

The tests were conducted in accordance with the Standard Methods for the Examination of Water & Sewage, 9th Edition, American Public Health Association.

Results of Test:

	Results	Requirements
Bacteriological	Negative	No evidence of presence of the Coliform group.
	Results	**Requirements**
Physical		
Turbidity	4 ppm	Less than 5 ppm (silica scale)
	Results	**Requirements**
Chemical Constituents		
Arsenic	Not found	Less than 0.05 ppm
Selenium	Not found	Less than 0.05 ppm
Hexavalent Chromium	Less than 0.02 ppm	Less than 0.05 ppm
Zinc	Less than 1 ppm	Less than 15 ppm
Manganese } Combined	Not found	Less than 3.0 ppm
Iron } Combined	Less than 0.1 ppm	
Chloride (as Cl)	10.7 ppm	Less than 250 ppm.

Supervised by C.K. Crocker

United States Testing Company, Inc.

BY M.J. Maziarski

MZ

OUR LETTERS AND REPORTS ARE FOR THE EXCLUSIVE USE OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THEIR COMMUNICATION TO ANY OTHERS OR THE USE OF THE NAME OF UNITED STATES TESTING COMPANY, INC. MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS.

C 11AR1-7 54 25

29.13.812 29-1154

ESTABLISHED 1880

United States Testing Company, Inc.

HOBOKEN, N. J.

TELEPHONE HOBOKEN 3-3166

NUMBER

76643-E

(Refer to this number)

REPORT 29.13.812 29-01154

August 27, 1954.

Client: New Jersey Highway Authority
c/o Miller-Warden Associates
Box 19-B R.D. #1
Eatontown, New Jersey

Subject: Well Water Survey -- Sample taken from Tinton Ave. Area
By United States Testing Company representative on 8/13/54.

Chemical Constituents (Cont'd)

	Results	Requirements
Sulphates (as SO_4)	12 ppm	Less than 250 ppm
Phenolic Compounds (as Phenol)	Not found	Less than 0.001 ppm
Total Solids	136 ppm	Less than 1000 ppm
Magnesium	2 ppm	Less than 125 ppm
Nitrates (as NO_3)	0.1 ppm	Less than 50 ppm

Conclusion:

The water sample, identified as above, meets the requirements of the Garden State Parkway Contract No. 148 - Section 7, 8, 10 and 11.

CONTINUED - PAGE #2

OUR LETTERS AND REPORTS ARE FOR THE EXCLUSIVE USE OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THEIR COMMUNICATION TO ANY OTHERS, OR THE USE OF THE NAME OF UNITED STATES TESTING COMPANY INC. MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OR APPARENTLY IDENTICAL OR SIMILAR PRODUCTS

C-11 BR1-2-54.10

29.13.812 29-1154

C. W. LAUMAN & CO., INC.

WATER ANALYSIS

29.13.812
29-01154

No. [redacted]

BETHPAGE, L. I.
Hicksville 3-2305

50 CHURCH ST., N. Y. C.
Digby 9-0313

Date [redacted]

Name [redacted]

Address [redacted]

Source of Sample [redacted]

Collection Date	Point of Collection
1. [redacted]	[redacted]
2.	
3.	
4.	

		1	2	3	4
Hydrogen Iron Conc. (pH)		[redacted]			
Free Carbon Dioxide, as CO_2	ppm	[redacted]			
Alkalinity "P", as $CaCO_3$	ppm	[redacted]			
Total Alkalinity, as $CaCO_3$	ppm	[redacted]			
Hardness, total, as $CaCO_3$	ppm	[redacted]			
Chlorides, as Cl	ppm	[redacted]			
Iron, as Fe	ppm	[redacted]			
Nitrates, as N	ppm	[redacted]			
Turbidity, as SiO_2	ppm	[redacted]			
[redacted]	[redacted]	[redacted]			

Remarks: [redacted]

Analyzed by [redacted]

Date [redacted]

C. W. LAUMAN & CO., INC.

by [redacted]

29.13.8 18

FORM 87-10M

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 29-3374
Application No.
County
29.13.818
29-03374

WELL RECORD

Well # 1

1. OWNER Carotentuo Bros. ADDRESS 199-Port Monmouth, N.J.
   Owner's Well No. 11 SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Tinton Falls

3. DATE COMPLETED 8/14/60 DRILLER A.P.Tice & Son

4. DIAMETER: top 4 Inches Botton 4 Inches TOTAL DEPTH 68 Feet

5. CASING: Type Blk steel Diameter 4 Inches Length 68 Feet

6. SCREEN: Type no ne Size of Opening _____ Diameter _____ Inches Length _____ Feet
   Range { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
   Tail piece. Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY no Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface

8. RECORD OF TEST: Date 8/15/60 Yield 10 Gallons per minute
   Static water level before pumping 16 Feet below surface
   Pumping level 40 feet below surface after _____ hours pumping
   Drawdown 28 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped gas pump How measured 5 gallon buckett
   Observed effect on nearby wells none

9. PERMANENT PUMPING EQUIPMENT:
   Type Jet Mfrs. Name Rapi-Dayton
   Capacity 10 G.P.M. How Driven electric H.P. ½ R.P.M. 3400
   Depth of Pump in well cellar Feet _____ Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet _____ Depth of Meter on Pump _____

10. USED FOR domestic AMOUNT Average 350 Gallons Daily
    Maximum 450 Gallons Daily

11. QUALITY OF WATER irony Sample: Yes ____ No. x
    Taste none Odor sylphur Color clear Temp. 54 °F

12. LOG _____ Are samples available no
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA written in back daily

14. DATA OBTAINED BY Arthur P. Tice Date 9/4/60

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

WELREC 107 0968

FORM 87

29-13-818 [d]

Permit No. 29-3863

Application No. _____

County _____

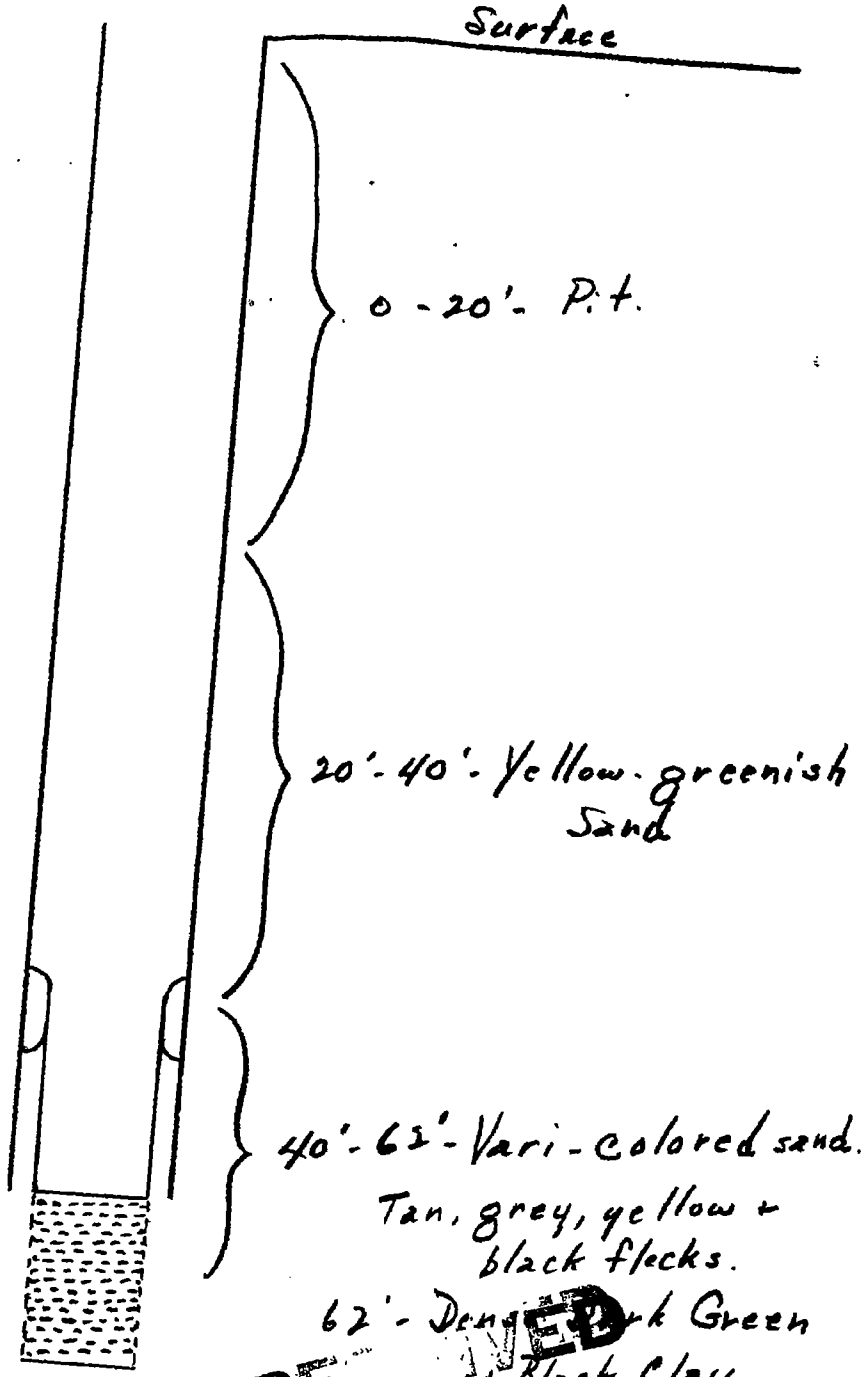
29.13.818
29-03863

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

WELL RECORD

1. OWNER Mr. Michael Manzo ADDRESS Box 260 Nolan Rd. Morganville N. J.
   Owner's Well No. _____ SURFACE ELEVATION 70 Feet (Above mean sea level)
2. LOCATION Nolan Rd., Morganville, N. J.
3. DATE COMPLETED June 30, 1962 DRILLER Greenhalgh & Kaye
4. DIAMETER: top _____ Inches Bottom _____ Inches TOTAL DEPTH 62 Feet
5. CASING: Type Black Steel Diameter 4 Inches Length _____ Feet
6. SCREEN: Type Cook Size of Opening 25 Diameter 4 Inches Length 4 Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
   Tail piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date June 30, 1962 Yield 10 Gallons per minute
   Static water level before pumping 19 Feet below surface
   Pumping level 28 feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped Cylinder How measured 50 Gal. Drum
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Domestic AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER Good Sample: Yes _____ No. _____
    Taste Good Odor None Color Clear Temp. _____ °F
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA Drillers
14. DATA OBTAINED BY R. Kaye & F. Long Date July 10, 1962

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)



RECEIVED
JUL 12 1982
DEPT. OF CONSERVATION & ECONOMIC DEVELOPMENT
GEOLOGIC & TOP. SURVEY

29-13-818

FORM 87

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

WELL RECORD

Permit No. 29-5076
Application No. _____
County _____
29.13.818

1. OWNER Herbert L.Willett 3rd. ADDRESS Wayside Road,Tinton Falls,N.J.
Owner's Well No. one SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Wayside Road, Tinton Falls

3. DATE COMPLETED May 24 /66 DRILLER William R.Tice Sr.

4. DIAMETER: top four Inches Bottom four Inches TOTAL DEPTH 96 Feet

5. CASING: Type std. weight steel. Diameter four Inches Length 84 Feet

6. SCREEN: Type none. Size of Opening ___ Diameter _____ Inches Length _____ Feet
Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
Tail piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY no Gallons per Minute at _____ Feet above surface
Water rises to _____ Feet above surface

8. RECORD OF TEST: Date May 23/66 Yield _____ Gallons per minute
Static water level before pumping 14 Feet below surface
Pumping level 17 feet below surface after while pumping 1000 g.p.h. for 4hrs. hours pumping
Drawdown 3 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
How Pumped submersible test pump. How measured five gal.pail.
Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:
Type submersible Mfrs. Name MYERS
Capacity 15 G.P.M. How Driven Electric. H.P. 1/2 R.P.M. 3450
Depth of Pump in well 40 Feet Depth of Footpiece in well _____ Feet
Depth of Air Line in well ___ Feet Type of Meter on Pump _____ Size ___ Inches

10. USED FOR one family home. AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER PH 7.8 Iron .5 p.p.m. ~~Hardness 6 g.p.g.~~ Sample: Yes ___ No. ___
Taste good Odor none Color clear Temp. 54 °F

12. LOG _____ Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA _____

14. DATA OBTAINED BY William R.Tice Sr. Date May 1966

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

WELREC 107 0971

29-13-579

Form 87

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Permit No. 29-7536
Application No. _____
County _____

29.13.579

WELL RECORD 29-7536

1. OWNER Vocational Educational Building ~~M & R. Mechanical Contractors~~ ADDRESS P.O. Box 435, Highlands, N.J.
   Owner's Well No. _____ SURFACE ELEVATION 69 Feet (Above mean sea level)

2. LOCATION New Shrewsbury, N.J.

3. DATE COMPLETED Sept. 24, 1974 DRILLER Kaye Well Drilling, Inc.

4. DIAMETER: top 4 Inches Bottom 4 Inches TOTAL DEPTH 144 Feet

5. CASING: Type Black Steel Diameter 4 Inches Length 131 Feet

6. SCREEN: Type Stainless Steel Johnson Size of Opening 16 Diameter 4 Inches Length 10 Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
   Tail piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface

8. RECORD OF TEST: Date Sept. 24, 1974 Yield 20 Gallons per minute
   Static water level before pumping 20 Feet below surface
   Pumping level 100' Air Line Feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped Air Compressor How measured 50 Gal. Drum
   Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Domestic AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER Good Sample: Yes _____ No. _____
    Taste Good Odor None Color Clear Temp. _____ °F

12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA Drillers

14. DATA OBTAINED BY Kaye Well Drilling, Inc. Date Oct. 8, 1974

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29-13-579
29-7596

Surface

0-8' - Brown Green Clay

8-40' - Hard Green Sand

40'-60' - Medium Hard Green

60'-70' - Green Black Clay + Sand

70'-100' - Green Clay

100'-130' - Tough Green Clay

130'-140' - Mt. Laurel

140'-155' - Gray Marl

155'-165' - Gray Sand
Very fine + muddy

165'-166' - Dense Gray Clay

RECEIVED
OCT 11 11 11 AM '7
GEOLOGY
AND
TOPOGRAPHY

29-13-595

FORM 87

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

29.13.595

Permit No. 29-8442
Application No. _____
County _____

WELL RECORD

29.8442

1. OWNER M.T.B. Inc. ADDRESS 270 Oak Knoll Rd., Lakewood, N.J.
   Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Lakehurst Rd., Jackson, N.J. B#35 L#29
3. DATE COMPLETED 8/5/76 DRILLER William Brown
4. DIAMETER: top 3 inches Bottom 2 inches TOTAL DEPTH 50 Feet
5. CASING: Type steel Diameter 3 Inches Length 44 Feet
6. SCREEN: Type con.slt. Size of Opening 16 Diameter 2 Inches Length 3 Feet
   Range in Depth { Top 46 Feet, Bottom 50 Feet } Geologic Formation sand and gravel
   Tail piece: Diameter 1" Inches Length 40 Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date 8/5/76 Yield 8 Gallons per minute
   Static water level before pumping 29 Feet below surface
   Pumping level 40 feet below surface after one hours pumping
   Drawdown 11 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped compressor How measured 5 gal.pail
   Observed effect on nearby wells none
9. PERMANENT PUMPING EQUIPMENT:
   Type jet Mfrs. Name F&W
   Capacity _____ G.P.M. How Driven elect. H.P. ½ R.P.M. 3450
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR domestic AMOUNT { Average 300 Gallons Daily, Maximum 350 Gallons Daily }
11. QUALITY OF WATER good Sample: Yes X No. _____
    Taste good Odor none Color clear Temp. _____ °F
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA drillers log
14. DATA OBTAINED BY William Brown Date 8/5/76

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

29·13·579

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-11733

APPLICATION NO. _____

COUNTY Monmouth

29.VS.579

WELL RECORD

1. OWNER Paul Ryder ADDRESS 329 Newman Springs Rd.
   Owner's Well No. 29-11733 SURFACE ELEVATION 85 Feet (Above mean sea level)
2. LOCATION LOT 29 BLK 367 Middletown Twp.
3. DATE COMPLETED 12/9/81 DRILLER James Pettit 661
4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 111 Feet
5. CASING: Type drive Steel Diameter 4 Inches Length 105 Feet
6. SCREEN: Type S.S. Size of Opening 12 slot Diameter 4 Inches Length 4 Feet
   Range in Depth { Top 105 Feet, Bottom 111 Feet } Geologic Formation Fine gray Sand & Lime stone
   Tail Piece: Diameter 3 Inches Length 2 Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date 12/9/81 Yield 10 Gallons per minute
   Static water level before pumping 16 Feet below surface
   Pumping level 33 feet below surface after 2 hours pumping
   Drawdown 17 Feet Specific Capacity 12 Gals. per min. per ft. of drawdown
   How pumped rod & cylinder How measured stop watch + 5gal pail
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT: Did Not Install
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR domestic AMOUNT { Average 150 Gallons Daily, Maximum 300 Gallons Daily }
11. QUALITY OF WATER good Sample: Yes ✓ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? No
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA _____
14. DATA OBTAINED BY J. Allyn Conover 951 Date 12/21/81

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.579
29-11733

0-30 yellow sand + clay
30-50 green clay + sand
50-64 gray clay - sand - shell
64-93 " " + black sand
93-95 green - gray + black sand
95-105 gray clay
105-111 fine gray sand + lime stone

Pitless adapter

JAN 25 1982

29.13.9.4.2

Form DWR- 138
11/80

FOR IRRIGATION PURPOSES ONLY

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

29.13.942

WELL RECORD

29.12070

PERMIT NO. 29:12070

APPLICATION NO. _____

COUNTY Monmouth

1. OWNER John Cummings ADDRESS 25 Bernard St. Eatontown
Owner's Well No. Ø SURFACE ELEVATION 50 Feet (Above mean sea level)
2. LOCATION Same as above
3. DATE COMPLETED 5-18-82 DRILLER (~~David~~)(Norman) Primost
4. DIAMETER: Top 6½ inches Bottom _____ inches TOTAL DEPTH 12 Feet
5. CASING: Type PVC Sched 40 Diameter 2 Inches Length 17 Feet
6. SCREEN: Type PVC Size of Opening .018 Diameter 1¼ Inches Length 5 Feet
Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation TVT (W.T. Well)
Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
Water rises to _____ Feet above surface
8. RECORD OF TEST: Date 5-18-82 Yield 6 Gallons per minute
Static water level before pumping 4 Feet below surface
Pumping level _____ feet below surface after _____ hours pumping
Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
How pumped (Centrifugal) (~~Air Lift~~) How measured Container
Observed effect on nearby wells None
9. PERMANENT PUMPING EQUIPMENT:
Type (Shallow) (~~Deep~~) JET Mfrs. Name (~~COULDS~~) (CRANE-DEMING)
Capacity 15 G.P.M. How Driven Electric H.P. 1 R.P.M. 3450
Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR IRRIGATION AMOUNT { Average 2,000 Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No X
Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
13. SOURCE OF DATA Pickwick Well Drilling P.O. Box 6 Farmingdale, N.J. 07727 DRILLER David Primost
14. DATA OBTAINED BY _____ Date 7/6/82

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.8.[redacted].3.9

Form DWR- 138
11/80

FOR IRRIGATION PURPOSES ONLY

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-12719

APPLICATION NO. _____

COUNTY Monmouth
29.13.839

WELL RECORD

1. OWNER Philip Gleason ADDRESS 211 Grant Ave. Eatontown
   Owner's Well No. _____ SURFACE ELEVATION 60 Feet (Above mean sea level)
2. LOCATION Same as above Lot # 12 Block # 99-2
3. DATE COMPLETED 4-21-83 DRILLER (David)([redacted]) Primost
4. DIAMETER: Top 6½ inches Bottom _____ inches TOTAL DEPTH 48 Feet
5. CASING: Type PVC Sched 40 Diameter 2 Inches Length 43 Feet
6. SCREEN: Type PVC Size of Opening .018 Diameter 1¼ Inches Length 5 Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation KRB (W.T. Well)
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date 4-21-83 Yield 11 Gallons per minute
   Static water level before pumping 7½ Feet below surface
   Pumping level — feet below surface after — hours pumping
   Drawdown — Feet Specific Capacity — Gals. per min. per ft. of drawdown
   How pumped (Centrifugal) ([redacted]) How measured Container
   Observed effect on nearby wells None
9. PERMANENT PUMPING EQUIPMENT:
   Type (Shallow) ([redacted]) JET Mfrs. Name (GOULDS) ([redacted])
   Capacity 15 G.P.M. How Driven Electric H.P. 1 R.P.M. 3450
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR IRRIGATION AMOUNT { Average 2,000 Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER Good Sample: Yes ____ No X
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
13. SOURCE OF DATA **Pickwick Well Drilling** P.O. Box 6 Farmingdale, N.J. 07727 DRILLER [signature]
14. DATA OBTAINED BY _____ Date 5-21-83

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

WELREC 107 1112

29.13.586

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-13187

APPLICATION NO. _____

COUNTY _____

29.13.586

WELL RECORD

29.13187

1. OWNER Tinton Woods ADDRESS 301 Tinton Ave., Eatontown, N.J.

Owner's Well No. _____ SURFACE ELEVATION 50 Feet (Above mean sea level)

2. LOCATION Route 537, Eatontown, N.J.

3. DATE COMPLETED Sept. 9, 1983 DRILLER Kaye Well Drilling, Inc.

4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 80 Feet

5. CASING: Type Black Steel Diameter 4 Inches Length 41 Feet

6. SCREEN: Type None Size of Opening ____ Diameter ____ Inches Length ____ Feet

Range in Depth { Top ____ Feet / Bottom ____ Feet } Geologic Formation _____

Tail Piece: Diameter ____ Inches Length ____ Feet

7. WELL FLOWS NATURALLY ____ Gallons per minute at ____ Feet above surface

Water rises to ____ Feet above surface

8. RECORD OF TEST: Date Sept. 9, 1983 Yield 60 Gallons per minute

Static water level before pumping 15 Feet below surface

Pumping level 40 feet below surface after ____ hours pumping

Drawdown ____ Feet Specific Capacity ____ Gals. per min. per ft. of drawdown

How pumped Cylinder How measured 5 Gal. Pail

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type ____ Mfrs. Name ____

Capacity ____ G.P.M. How Driven ____ H.P. ____ R.P.M. ____

Depth of Pump in well ____ Feet Depth of Footpiece in well ____ Feet

Depth of Air Line in well ____ Feet Type of Meter on Pump ____ Size ____ Inches

10. USED FOR Irrigation AMOUNT { Average ____ Gallons Daily / Maximum ____ Gallons Daily }

11. QUALITY OF WATER ~~Good~~ Irony Sample: Yes ____ No ____

Taste ~~Good~~ Irony Odor None Color Clear Temp. ____ °F.

12. LOG _____ Are samples available? ____

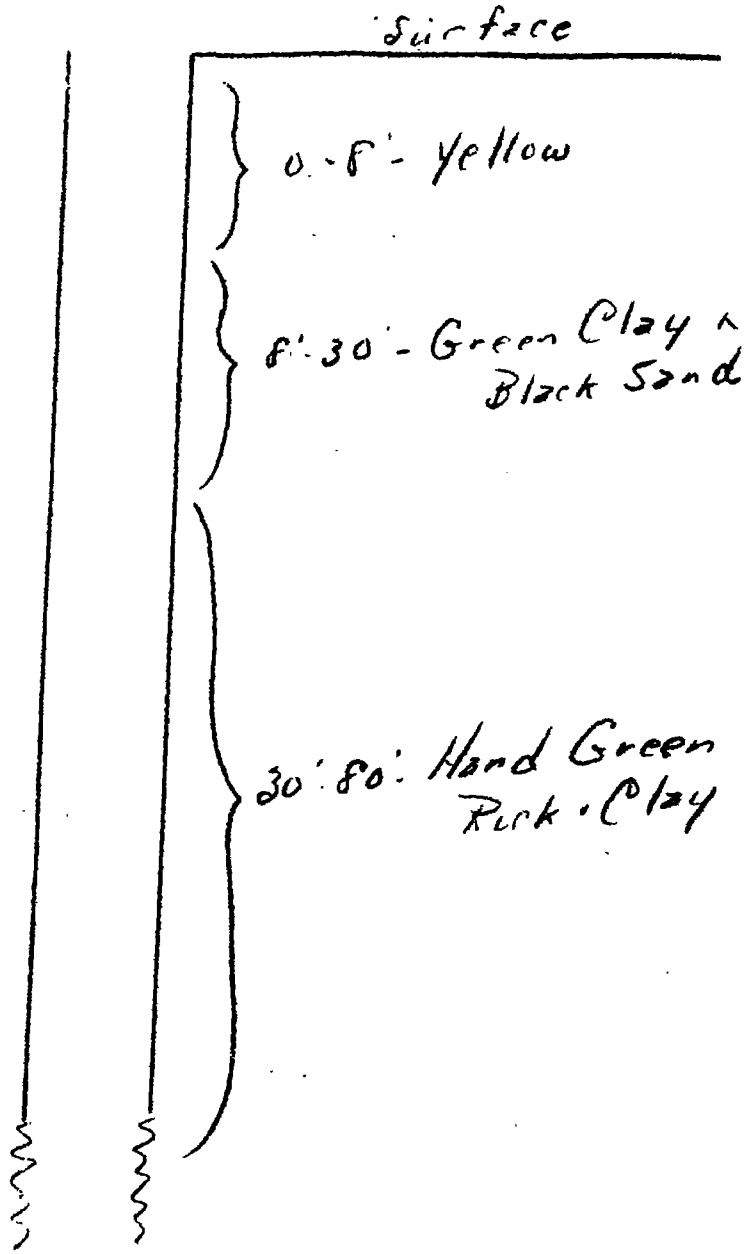
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers

14. DATA OBTAINED BY Kaye Well Drilling, Inc. Date Oct. 11, 1983

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29 · 13 · 586
29 · 13187



Form DWR- 138
11/80

Coord: 2913863

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 291352-9

APPLICATION NO.

COUNTY Monmouth

29.13.843

FOR MONITORING PURPOSES ONLY

WELL RECORD

1. OWNER UNDERWRITERS ADJUSTING CO. ADDRESS P.O. BOX 688

   Owner's Well No. 1 SURFACE ELEVATION 106.93 (Assumed Datum) Feet (Above mean sea level)

2. LOCATION Lot: Hecon Facility Block: Municipality: Madison Boro

3. DATE COMPLETED 2/15/84 DRILLER New England Pollution Control

4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 45 Feet

5. CASING: Type ~~STEEL~~ PVC Diameter 4 Inches Length 25 Feet

6. SCREEN: Type PVC Size of Opening .020 Slot Diameter 4 Inches Length 20 Feet

   Range in Depth { Top 25 Feet / Bottom 40 Feet } Geologic Formation Raritan

   Tail Piece: Diameter — Inches Length — Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

   Water rises to _____ Feet above surface

8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute

   Static water level before pumping _____ Feet below surface

   Pumping level _____ feet below surface after _____ hours pumping

   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

   How pumped _____ How measured _____

   Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

   Type _____ Mfrs. Name _____

   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

    Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Geologist Well Log New England Pollution Control, Co., Inc.

14. DATA OBTAINED BY Herb Woike Date 7/9/84
    Brian J. Beahan (NEPCCO)

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

WELREC 107 1247

29.13.863

GEOLOGICAL WELL LOG

29-13524-9

New England Pollution Control Co, Inc
7 Edgewater Place
Norwalk, CT 06855

29.13.863
2913524

Drill Master: Dan Fiorentino

Page 1 of 1

Description	Thickness (in feet)	Depth
- Reddish brown medium to coarse sand, homogeneous.	3	0-3
- Greenish brown medium to coarse sand, homogeneous.	3	3-6
- Greenish medium to coarse sand, glauconitic causing sands to stick together.	8	6-14
- Brownish medium to coarse sand. Some glauconitc and few clay lenses.	16	14-30
- Brown, medium to coarse sand, few clay lenses, damp at about 40'.	15	30-45

Owner:

Location: Hecon Building Eatontown, NJ

Well No: #1

Date Completed: 2/15/84

Drilling Method: Hollow Stem Auger 13" O.D

Sample Method: N/A

Samples Examined By: Herb Woike

Reference Point: T.O.C.

Elevation Of R. P.: 106.93 (Assumed Datum)

Casing: N/A

Screen Type: 25' solid PVC
20' Slotted PVC

Diameter: 4 Inch

Static Water Level:

Remarks: Clean, no product.

Form DWR- 138
11/80

Coord: 2913863

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 2913925-7

APPLICATION NO.

COUNTY Monmouth

29.13.863

FOR MONITORING PURPOSES ONLY

WELL RECORD

1. OWNER UNDERWRITERS ADJUSTING CO. ADDRESS P.O. BOX 688
   Owner's Well No. 2 SURFACE ELEVATION 108.88 (Assumed Datum) Feet (Above mean sea level)
2. LOCATION Lot: Hecon Facility Municipality: Madison Boro
3. DATE COMPLETED 2/15/84 DRILLER New England Pollution Control
4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 40 Feet
5. CASING: Type PVC Diameter 4 Inches Length 20 Feet
6. SCREEN: Type PVC Size of Opening .020 (20 Slot) Diameter 4 Inches Length 20 Feet
   Range in Depth { Top 20 Feet, Bottom 40 Feet } Geologic Formation Raritan
   Tail Piece: Diameter — Inches Length — Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily, Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA NEPCCO Geologist WELL LOG.
14. DATA OBTAINED BY Herb Woike Date 7/9/84
    Brian Beahon

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.863

GEOLOGIST WELL LOG

New England Pollution Control Co, Inc
7 Edgewater Place
Norwalk, CT 06855

29-13525-7

29.13.863
29 13525

Drill Master: Dan Fiorentino

Page 1 of 1

Description	Thickness (in feet)	Depth
- Brown clay sized particles, little to no sand.	7	0-7
- Reddish brown medium to coarse sand with few well rounded pebbles.	3	7-10
- Greenish brown medium to coarse sand, few pebbles and clay lenses.	2	10-12
- Brownish medium to coarse sand, with common cobbles and some clay, more resistent.	1	12-13
- Brown medium to coarse sand, no coarse fragments, some clay.	7	13-20
- Dark brown sand, more clay material holds together well.	7	20-27
- Some sand and clay but color change to reddish brown.	13	27-40

Owner:

Location: Hecon Building Eatontown, NJ

Well No: #2

Date Completed: 2/15/84

Drilling Method: Hollow Stem Auger 13" O.D

Sample Method: N/A

Samples Examined By: Herb Woike

Reference Point: T.O.C.

Elevation Of R. P.: 108.88 (Assumed Datum

Casing: N/A

Screen Type: 20' solid PVC
20' slotted PVC

Diameter: 4 Inches

Static Water Level:

Remarks: Clean, no product.

Form DWR-138
11/80

FOR MONITORING PURPOSES ONLY

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913863

PERMIT NO. 291326-5

APPLICATION NO. _____

COUNTY Monmouth

2913863

WELL RECORD

1. OWNER UNDERWRITERS ADJUSTING CO. ADDRESS P.O. BOX 688
   Owner's Well No. 3 SURFACE ELEVATION 108.24 (Assumed datum) Feet (Above mean sea level)
2. LOCATION Hecon Facility Municipality: Madison Boro
3. DATE COMPLETED 2/15/84 DRILLER New England Pollution Control
4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 40 Feet
5. CASING: Type PVC Diameter 4 Inches Length 20 Feet
6. SCREEN: Type PVC Size of Opening 020 20 Slot Diameter 4 Inches Length 20 Feet
   Range in Depth { Top 20 Feet / Bottom 40 Feet } Geologic Formation Raritan.
   Tail Piece: Diameter — Inches Length — Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA NEPCCO Geologist Well Log.
14. DATA OBTAINED BY Herb Woike Date 7/9/84
    Brian J. Beecher (NEPCO)

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.863

GEOLOGIST WELL LOG

New England Pollution Control Co, Inc
7 Edgewater Place
Norwalk, CT 06855

29-135260-5

29.13.863
29135260

Drill Master: Dan Fiorentino

Page 1 of 1

Description	Thickness (in feet)	Depth
- Reddish brown medium to coarse sand, homogeneous.	2	0-2
- Reddish brown medium to coarse sand, few well rounded pebbles and cobbles.	6	2-8
- Brown medium to coarse sand with few pebbles and some clay.	5	8-13
- Greenish brown medium to coarse glauconitic sand, few pebbles and cobbles, more clay evident.	27	13-40

Owner:

Location: Hecon Building Eatontown, NJ

Well No: #3

Date Completed: 2/15/84

Drilling Method: Hollow Stem Auger 13" O.D

Sample Method: N/A

Samples Examined By: Herb Woike

Reference Point: T.O.C.

Elevation Of R. P.: 108.24

Casing: N/A

Screen Type: 20' solid PVC
20' slotted PVC

Diameter: 4 Inches

Static Water Level:

Remarks: Clean, no product.

Form DWR-138
11/80

Coord: 2913863

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29[illegible]3527-3

APPLICATION NO.

COUNTY Monmouth

2913863

FOR MONITORING PURPOSES ONLY

WELL RECORD

1. OWNER UNDERWRITERS ADJUSTING CO. ADDRESS P.O. BOX 688

   Owner's Well No. 4 SURFACE ELEVATION 106.54 Assumed datum Feet (Above mean sea level)

2. LOCATION Heron Facility. Municipality: Madison Boro

3. DATE COMPLETED 2/16/84 DRILLER New England Pollution Control

4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 40 Feet

5. CASING: Type PVC Diameter 4 Inches Length 20 Feet

6. SCREEN: Type PVC Size of Opening 020 slot Diameter 4 Inches Length 20 Feet

   Range in Depth { Top 20 Feet, Bottom 40 Feet } Geologic Formation Raritan

   Tail Piece: Diameter — Inches Length — Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

   Water rises to _____ Feet above surface

8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute

   Static water level before pumping _____ Feet below surface

   Pumping level _____ feet below surface after _____ hours pumping

   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

   How pumped _____ How measured _____

   Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

   Type _____ Mfrs. Name _____

   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR monitoring AMOUNT { Average _____ Gallons Daily, Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

    Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA NEPCCO GEOLOGIST WELL LOG

14. DATA OBTAINED BY HERB WOIKE Date 7/9/84
    BRIAN J BEAHAN (NEPCCO)

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29-13527-3

29.13.863

New England Pollution Control Co, Inc
7 Edgewater Place
Norwalk, CT 06855

29.13.863
2913527.

Drill Master: Dan Fiorentino

Page 1 of 1

Description	Thickness (in feet)	Depth
- Brown medium to coarse sand, with traces of clay.	9	0-9
- Greenish brown medium to coarse glauconitic sand, intermittent clay layer, inches thick.	21	9-30
- Brownish medium to coarse sand, some clay in intermittent lenses.	10	30-40

Owner:

Location: Hecon Building Eatontown, NJ

Well No: #4

Date Completed: 2/16/84

Drilling Method: Hollow Stem Auger 13" O.D

Sample Method: N/A

Samples Examined By: Herb Woike

Reference Point: Grade (curb box)

Elevation Of R. P.: 106.54

Casing: N/A

Screen Type: 20' solid PVC
20' slotted PVC

Diameter: 4 Inches

Static Water Level:

Remarks: Clean, no product.

Form DWR-138
1/80

FOR MONITORING PURPOSES ONLY

Coord: 2913863

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 291[illegible]28-1

APPLICATION NO.

COUNTY Monmouth

WELL SEALED 1/12/91

WELL RECORD

29.13.863

1. OWNER UNDERWRITERS ADJUSTING CO. ADDRESS P.O. BOX 688

Owner's Well No. 5 SURFACE ELEVATION 106.45 (Assumed datum) Feet (Above mean sea level)

2. LOCATION Lottecon Facility Municipality: Madison Boro

3. DATE COMPLETED 2/16/84 DRILLER New England Pollution Control

4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 40 Feet

5. CASING: Type PVC Diameter 4 Inches Length — Feet

6. SCREEN: Type PVC Size of Opening 020 slot Diameter 4 Inches Length 40 Feet

Range in Depth { Top 0 Feet, Bottom 40 Feet } Geologic Formation Raritan.

Tail Piece: Diameter — Inches Length — Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily, Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG _____ Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA NEPCO GEOLOGIST WELL LOG.

14. DATA OBTAINED BY HERB WOIKE Date 7/9/84
Brian J. Beahan (NEPCO)

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29-13-863

GEOLOGIST WELL LOG

New England Pollution Control Co, Inc
7 Edgewater Place
Norwalk, CT 06855
29.13.863
2913528

29-13528-1

Drill Master: Dan Fiorentino

Page 1 of 1

Description	Thickness (in feet)	Depth
- Light brown silt and very fine grained sand.		0-5
- Brown medium to coarse sand, with a little clay.		5-9
- Reddish brown medium to coarse sand, few pebbles.		9-15
- Greenish brown medium to coarse glauconitic sand, some clay lenses.		15-27
- Same material with strong oil smell.		

Owner:

Location: Hecon Building ~~Eatontown, NJ~~

Well No: #5

Date Completed: 2/16/84

Drilling Method: Hollow Stem Auger 13" O.D

Sample Method: N/A

Samples Examined By: Herb Woike

Reference Point: Grade (curb box)

Elevation Of R. P.: 106.45

Casing: N/A

Screen Type: 40' slotted PVC

Diameter: 4 Inches

Static Water Level:

Remarks: Under parking lot. Strong product smell.

Form DWR- 138
11/80

Coord: 2913863

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 2913529-D

APPLICATION NO.

COUNTY Monmouth

FOR MONITORING PURPOSES ONLY

29.13.863

WELL RECORD

1. OWNER UNDERWRITERS ADJUSTING CO. ADDRESS P.O. BOX 688

Owner's Well No. 6 SURFACE ELEVATION 107.56 (Assumed datum) Feet (Above mean sea level)

2. LOCATION HECON FACILITY Municipality: Madison Boro

3. DATE COMPLETED 2/16/84 DRILLER New England Pollution Control

4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 40 Feet

5. CASING: Type PVC Diameter 4 Inches Length 35 Feet

6. SCREEN: Type PVC Size of Opening .020 slot Diameter 4 Inches Length 35 Feet

Range in Depth { Top 5 Feet, Bottom 40 Feet } Geologic Formation Raritan

Tail Piece: Diameter — Inches Length — Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily, Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG _____ Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA NEPCCO GEOLOGIST WELL LOG.

14. DATA OBTAINED BY HERB WOIKE Date 7/9/84
Brian Beehan (Nepcco)

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.863

GEOLOGICAL WELL LOG

New England Pollution Control Co, Inc
7 Edgewater Place
Norwalk, CT 06855

29.13.863
29 13529

29-13529-D

Drill Master: Dan Fiorentino

Page ____ of ____

Description	Thickness (in feet)	Depth
- Reddish brown medium to coarse sand, few pebbles somewhat rounded, some clay.		0-5
- Light brown medium to coarse sand more clay present.		5-7
- Well rounded cobbles mostly some sand, probably fill.		10-14
- Brown medium to coarse sand. Few pebbles and a little clay.		10-14
- Greenish brown medium to coarse glauconitic sand, few pebbles. (Product odor at 22')		14-28
- Brown medium to coarse sand with intermittent clay lenses.		28-38
- Same as last but real wet.		38-40

Owner: _____

Location: Hecon Building Eatontown, NJ

Well No: #6

Date Completed: 2/16/84

Drilling Method: Hollow Stem Auger 13" O.D

Sample Method: N/A

Samples Examined By: Herb Woike

Reference Point: T.O.C.

Elevation Of R. P.: 107.56

Casing: N/A

Screen Type: 5' solid PVC 35' slotted PVC

Diameter: 4 Inches

Static Water Level: _____

Remarks: product smell

Form DWR- 138
11/80

Coord: 2913863

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29135[illegible]1-6

APPLICATION NO.

COUNTY Monmouth

29,13,863

FOR MONITORING PURPOSES ONLY

WELL RECORD

1. OWNER UNDERWRITERS ADJUSTING CO. ADDRESS P.O. BOX 688

   Owner's Well No. 7 SURFACE ELEVATION 106.60 (Assumed Data) Feet (Above mean sea level)

2. LOCATION Hecon Facility Municipality: Madison Boro

3. DATE COMPLETED 2/29/84 DRILLER New England Pollution Control

4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 40 Feet

5. CASING: Type PVC Diameter 4 Inches Length 20 Feet

6. SCREEN: Type PVC Size of Opening .020 Slot Diameter 4 Inches Length 20 Feet

   Range in Depth { Top 20 Feet / Bottom 40 Feet } Geologic Formation Raritan

   Tail Piece: Diameter ____ Inches Length ____ Feet

7. WELL FLOWS NATURALLY ____ Gallons per minute at ____ Feet above surface

   Water rises to ____ Feet above surface

8. RECORD OF TEST: Date ____ Yield ____ Gallons per minute

   Static water level before pumping ____ Feet below surface

   Pumping level ____ feet below surface after ____ hours pumping

   Drawdown ____ Feet Specific Capacity ____ Gals. per min. per ft. of drawdown

   How pumped ____ How measured ____

   Observed effect on nearby wells ____

9. PERMANENT PUMPING EQUIPMENT:

   Type ____ Mfrs. Name ____

   Capacity ____ G.P.M. How Driven ____ H.P. ____ R.P.M. ____

   Depth of Pump in well ____ Feet Depth of Footpiece in well ____ Feet

   Depth of Air Line in well ____ Feet Type of Meter on Pump ____ Size ____ Inches

10. USED FOR monitoring AMOUNT { Average ____ Gallons Daily / Maximum ____ Gallons Daily }

11. QUALITY OF WATER ____ Sample: Yes ____ No ____

    Taste ____ Odor ____ Color ____ Temp. ____ °F.

12. LOG ____ Are samples available? ____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA NEPCO GEOLOGIST WELL LOG.

14. DATA OBTAINED BY HERB WOIKE Date 7/9/84
    Brian Beahan (NEPCO)

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.863

New England Pollution Control Co, Inc
7 Edgewater Place
Norwalk, CT 06855
29.13.863
2913557

29-13551-6

Drill Master: Dan Fiorentino

Page 1 of 1

Description	Thickness (in feet)	Depth
- Brown medium to coarse loose sand, many well rounded pebbles and cobbles.	8	0-8
- Brown medium to coarse sand. Slight greenish tinge, common pebbles, few cobbles, some thin gray clay layers after (12) feet.	4	8-19
- Brownish green glauconitic medium to coarse sand, sticky, no coarse fragments.	5	19-24
- Color change to more brown medium - coarse sand.	6	24-30
- Moist greenish brown medium - coarse sand.	10	30-40

Owner:

Location: Hecon Building Eatontown, NJ

Well No: #7

Date Completed: 2/29/84

Drilling Method: Hollow Stem Auger 13" O.D

Sample Method: N/A

Samples Examined By: Herb Woike

Reference Point: Grade (curb box)

Elevation Of R. P.: 106.60 (Assumed Datum)

Casing: N/A

Screen Type: 20' solid PVC
20' slotted PVC

Diameter: 4 Inches

Static Water Level:

Remarks: Under parking lot.
Clean, no product.

Form DWR-138
11/80

WELL SEALED 1/26/91

Coord: 2913863

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 2913[illegible]2-4

APPLICATION NO.

COUNTY Monmouth

2913863

FOR MONITORING PURPOSES ONLY

WELL RECORD

1. OWNER UNDERWRITERS ADJUSTING CO. ADDRESS P.O. BOX 688

   Owner's Well No. 8 SURFACE ELEVATION 106.25 (Assumed Datum) Feet (Above mean sea level)

2. LOCATION Hecon Facility Municipality: Madison Boro

3. DATE COMPLETED 2/29/84 DRILLER New England Pollution Control

4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 40 Feet

5. CASING: Type PVC Diameter 4 Inches Length 20 Feet

6. SCREEN: Type PVC Size of Opening 020 Diameter 4 Inches Length 20 Feet

   Range in Depth { Top 20 Feet, Bottom 40 Feet } Geologic Formation Raritan

   Tail Piece: Diameter — Inches Length — Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

   Water rises to _____ Feet above surface

8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute

   Static water level before pumping _____ Feet below surface

   Pumping level _____ feet below surface after _____ hours pumping

   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

   How pumped _____ How measured _____

   Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

   Type _____ Mfrs. Name _____

   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR monitoring AMOUNT { Average _____ Gallons Daily, Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

    Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA NEPCCO GEOLOGIST WELL LOG.

14. DATA OBTAINED BY HERB WOIKE Date 7/9/84
    Brian J. Beahan (NEPCO)

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29-13552-4

29.13.863

New England Pollution Control Co, Inc
7 Edgewater Place
Norwalk, CT 06855
29.13.863
29 13.552

Drill Master: Dan Fiorentino

Page 1 of 1

Description	Thickness (in feet)	Depth
- Reddish brown medium to coarse loose sand, many well rounded pebbles and cobbles.	8	0-8
- Brown medium to coarse sand with few pebbles.	2	8-10
- Greenish medium to coarse loose sand no coarse fragments.	3	10-13
- Green medium to coarse glauconitic sand, sticky, no coarse fragments. (Product smell at 22')	17	13-30
- Greenish brown medium to coarse sand, damp.	10	30-40

Owner:

Location: Hecon Building Eatontown, NJ

Well No: #8

Date Completed: 2/29/84

Drilling Method: Hollow Stem Auger 13" O.D.

Sample Method: N/A

Samples Examined By: Herb Woike

Reference Point: Grade (curb box)

Elevation Of R. P.: 106.25 (Assumed Datum)

Casing: N/A

Screen Type: 20' solid PVC
20' slotted PVC

Diameter: 4 Inches

Static Water Level:

Remarks: Product Smell

Form DWR-138
11/8

WELL SEALED 6/26/91

Coord: 2913863

FOR MONITORING PURPOSES ONLY

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 2913853-2

APPLICATION NO.

COUNTY Monmouth

29,13.863

WELL RECORD

1. OWNER UNDERWRITERS ADJUSTING CO. ADDRESS P.O. BOX 688

Owner's Well No. 9 SURFACE ELEVATION 106.40 (Assumed Datum) Feet (Above mean sea level)

2. LOCATION Heron Facility; Municipality: Madison Boro

3. DATE COMPLETED 2/29/84 DRILLER New England Pollution Control

4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 40 Feet

5. CASING: Type PVC Diameter 4 Inches Length 20 Feet

6. SCREEN: Type PVC Size of Opening 020 Diameter 4 Inches Length 20 Feet

Range in Depth { Top 20 Feet, Bottom 40 Feet } Geologic Formation Raritan

Tail Piece: Diameter — Inches Length — Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR monitoring AMOUNT { Average _____ Gallons Daily, Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG _____ Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA NERCO GEOLOGIST WELL LOG.

14. DATA OBTAINED BY HERB WOIKE Date 7/9/84

Brian J. Beahan (NERCO)

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29-13553-2

29.13.863

New England Pollution Control Co, Inc
7 Edgewater Place
Norwalk, CT 06855

29.13.863
29135553

Drill Master: Dan Fiorentino

Description	Thickness (in feet)	Depth
- Brown medium to coarse loose sand, few pebbles and well rounded cobbles.	4	0-4
- Reddish brown medium to coarse loose sand, no coarse fragments.	3	4-7
- Greenish brown medium to coarse loose sand.	8	7-15
- Green medium to coarse glauconitic sand, sticky, some fluid clay layers. (Product smell at 29')	16	15-31
- Light brown medium to coarse sand, moist, some clay.	11	31-40

Owner:

Location: Hecon Building Eatontown, NJ

Well No: #9

Date Completed: 2/29/84

Drilling Method: Hollow Stem Auger 13" O.D.

Sample Method: N/A

Samples Examined By: Herb Woike

Reference Point: Grade (curb box)

Elevation Of R. P.: 106.40 (Assumed Datum)

Casing: N/A

Screen Type: 20' solid PVC
20' Slotted PVC

Diameter: 4 Inches

Static Water Level:

Remarks: Product Smell
10" of product by days enc

Form DWR- 138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29 - 1358

APPLICATION NO.

COUNTY Monmouth

29-13-863

WELL RECORD

1. OWNER Underwriter's Adjusting Co. ADDRESS P.O. Box 688
   Owner's Well No. RW SURFACE ELEVATION — Feet (Above mean sea level)
2. LOCATION HECON Facility Madison Boro, NJ
3. DATE COMPLETED 3/15/84 DRILLER New England Pollution Control Co.
4. DIAMETER: Top 30 inches Bottom 30 inches TOTAL DEPTH 52 Feet
5. CASING: Type Mild Steel Diameter 12 Inches Length 28 Feet
6. SCREEN: Type Doerr Mild Steel Size of Opening — Diameter 12 Inches Length 20 Feet
   Range in Depth { Top 26 Feet, Bottom 46 Feet } Geologic Formation Raritan
   Tail Piece: Diameter — Inches Length — Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Recovery of Hydrocarbons AMOUNT { Average _____ Gallons Daily, Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA NEPCCO BORING LOG.
14. DATA OBTAINED BY JAY VANLIERE Date 7/9/84
    BRIAN J. BEAHAN

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.863 29-13581

nepcco

New England Pollution Control Co., Inc.
7 Edgewater Place • Norwalk, CT 06855

NEW ENGLAND POLLUTION CONTROL CO., INC.

☒ NORWALK, CT (203) 853-1990 ☐ ROBBINSVILLE, NJ (609) 259-3333 ☐ BATAVIA, NY (716) 343-8444

BORING LOG

29.13.863 2913581

Page 1 of 1

PROJECT NAME:	Hecon		PROJECT NO.
PROJECT LOCATION:	Eatontown, NJ		DATE STARTED: 3/15/84
BORING LOCATION	Behind factory next to loading ramp.		DATE COMPLETED: 3/15/84
DRILLING EQUIPMENT	E.Z. Bore Bucket Rig	RIG. NO. 1102	ELEVATION:
DRILLING METHOD:	Rotary Bucket.		DATUM:
CASING	HAMMER	DROP	DEPTH TO ROCK: (feet)
SAMPLER	HAMMER	DROP	COMPLETION DEPTH: 50 (feet)
PERSONNEL DRILLER	Jay Vanliere	HELPER Fred Johnson	

MONITORING WELL CONSTRUCTION	SCREEN 12 IN DIA FROM 26' TO 46 FT. DEPTH				GRAVEL FILTER (Type, Depth) 20'-52' #2 #3 Morie
	RISER 12 IN DIA FROM +2 TO 26 FT DEPTH				BENTONITE SEAL (Thickness, Depth)
	FLUSH BOX	STICK-UP 2'	SURFACE SEAL (Type, Thickness)		LOCKING CAP

WATER LEVEL DATA	DATE	TIME	DEPTH TO WATER	DEPTH OF WELL	DEPTH OF CASING	ELEVATION OF TIDE	COMMENTS
	3/16/84	7:00	30'	52'	50'		2' Stickup
							Measurement from top of
							casing.

DEPTH From	DEPTH To	CLASSIFICATION	CASING BLOWS PER FT	SAMPLES No	From	To	Blows/6"	REMARKS
0	6"	Blacktop and fill						
6"	4'	Yellow clay						
4'	28'	Yellow and green sandy						
		clay - dry - fine -						
		medium sand.						
28'	52'	Yellow and green						
		sandy clay - water						
		bearing. Fine -						
		medium sand.						

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

29.13.586

WELL RECORD

29.14431

Coord: 2913586 Rect#

PERMIT NO. 2914431

APPLICATION NO. _____

COUNTY Monmouth

1. OWNER RANNEY SCHOOL ADDRESS 235 HOPE RD.

Owner's Well No. 1 SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Lot: 1A Block: 29 Municipality: Tinton Falls Boro

3. DATE COMPLETED 12/21/84 DRILLER A.C. Schultes & Sons, Inc.

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 25 Feet

5. CASING: Type PVC Diameter 8 Inches Length 5 Feet

6. SCREEN: Type PVC Size of Opening .045 Diameter 8 Inches Length 20 Feet

Range in Depth { Top 5 Feet / Bottom 25 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date 12/21/84 Yield 50 Gallons per minute

Static water level before pumping 5 Feet below surface

Pumping level 10 feet below surface after 2 hours pumping

Drawdown 5 Feet Specific Capacity 10 Gals. per min. per ft. of drawdown

How pumped With Air How measured 5 Gal. Bucket

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type Submersible Mfrs. Name Worthington

Capacity 100 G.P.M. How Driven Electric Motor H.P. 5 R.P.M. 3450

Depth of Pump in well 25 Feet Depth of Footpiece in well n/a Feet

Depth of Air Line in well 25 Feet Type of Meter on Pump unknown Size Unknown Inches

10. USED FOR Irrigation AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER Good Sample: Yes ____ No ____

Taste None Odor None Color clear Temp. 58 °F.

12. LOG See Attached Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY A. C. Schultes/William Jefferys Date 2/28/85

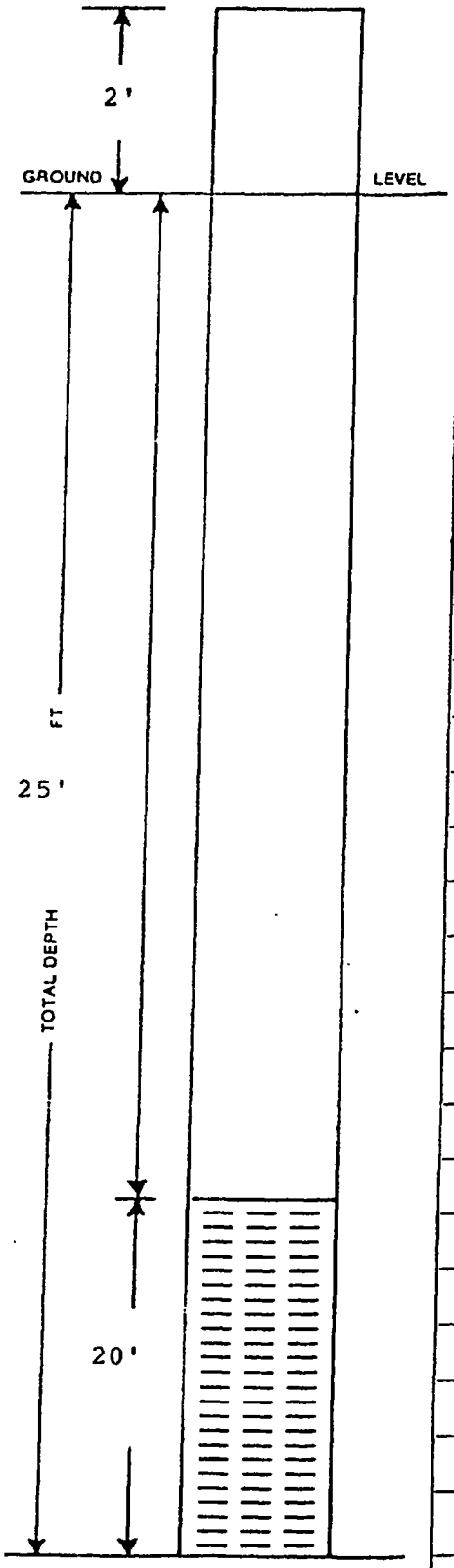
(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.586

A.C. SCHULTES & SONS, INC.

29-14431
29.13.586

SINGLE CASED WELL



WELL LOG	FEET FROM GROUND SURFACE 0 to ____	NAME OF OWNER
		~~RAnney School~~
Top Soil	0 - 2	Location Tinton Falls, NJ
Clay	2 - 11	Well No. 1
Cemented Sand	11 - 30	State Permit
		Job No 20198
		Test Pumped (Hrs) 1 w/air
		Capacity (GPM) 50 GPM
		Static Level 5'
		Pumping Level
		Datum
		Specific Capacity
		Diameter of Casing 8"
		Depth of Well (Ground) 25'
		Depth to Gravel 3'
		Gravel Size #1
		Length of Casing & Screen 27'
		Screen Material P.V.C.
		Screen Mfg.
		Screen Dia. 8"
		Length of Screen 20'
		Top of Screen Fitting To 8" Pipe
		Bottom of Screen Fitting P.V.C. Plug
		Slot Size .045
		Seal Material
		Quantity
		Depth of Seal Material
		Drilling Machine 6B
		Date Well Completed 12-21-84
		Driller Jim Duffy

29-13-839

29.13.839

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-16207

APPLICATION NO. _____

COUNTY Monmouth

29.13.839

WELL RECORD

1. OWNER Joseph Stella ADDRESS 144 Grant Ave, Eatontown
   Owner's Well No. 1 SURFACE ELEVATION 52 Feet (Above mean sea level)
2. LOCATION 144 Grant Ave. Lot 2 Blk 94 Eatontown
3. DATE COMPLETED 8-2-86 DRILLER Jim Peltier #661
4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 117 Feet
5. CASING: Type DRIVE STEEL Diameter 4 Inches Length 111 Feet
6. SCREEN: Type STAINLESS STEEL Size of Opening .016 Diameter 4 Inches Length 6 Feet
   Range in Depth { Top 111 Feet / Bottom 117 Feet } Geologic Formation Green Clay + Black Sand
   Tail Piece: Diameter — Inches Length — Feet
7. WELL FLOWS NATURALLY — Gallons per minute at — Feet above surface
   Water rises to — Feet above surface
8. RECORD OF TEST: Date 8-2-86 Yield 20 Gallons per minute
   Static water level before pumping 12 Feet below surface
   Pumping level 63 feet below surface after 2 hours pumping
   Drawdown 51 Feet Specific Capacity 22+ Gals. per min. per ft. of drawdown
   How pumped Test Pumped-Rod cylinder How measured Stop watch + 5 Gal Pail
   Observed effect on nearby wells —
9. PERMANENT PUMPING EQUIPMENT:
   Type Submersible Mfrs. Name Myers
   Capacity 19 G.P.M. How Driven Elec H.P. 1 R.P.M. 3450
   Depth of Pump in well 70 Feet Depth of Footpiece in well — Feet
   Depth of Air Line in well — Feet Type of Meter on Pump — Size — Inches
10. USED FOR Domestic AMOUNT { Average 150 Gallons Daily / Maximum 300 Gallons Daily }
11. QUALITY OF WATER Good Sample: Yes ✓ No ____
    Taste Good Odor None Color Clear Temp. 54 °F.
12. LOG — Are samples available? No
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA _____
14. DATA OBTAINED BY Great Water Inc MAB Date 8-2-86

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29,13.839
29-16207

0 - 10 Yellow sand & clay
10-67 Green Sand & clay
67-117 Green clay & Black sand

Pitless Adapter

NOV 0 1 1986

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913854

PERMIT NO. 29-167666

APPLICATION NO. _____

COUNTY Monmouth

29.13.854
29167666

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. SA-1 SURFACE ELEVATION N/A Feet (Above mean sea level)

2. LOCATION Lot: 30.04 Block: 93 Municipality: Eatontown Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 41.5 Feet

5. CASING: Type Sch. 40 PVC Diameter 1 1/2 Inches. Length 36.5 Feet

6. SCREEN: Type Sch. 40 Size of Opening .020" Diameter 1 1/2 Inches Length 5 Feet

Range in Depth { Top 36.5 Feet / Bottom 41.5 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute

FOR OBSERVATION PURPOSES ONLY

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. ____ °F.

12. LOG Back of this Sheet Are samples available? No
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.854
29167766

Clay & silt, tr cf sand

0-41.5'

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913854

PERMIT NO. 29-16767

APPLICATION NO. _____

COUNTY Monmouth

29.13.854
2916767

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. SA-4 SURFACE ELEVATION N/A Feet (Above mean sea level)

2. LOCATION Lot: 30.04 Block: 93 Municipality: Eatontown Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 51.5 Feet

5. CASING: Type Sch.40 PVC Diameter 1 1/2 Inches Length 46.5 Feet

6. SCREEN: Type Sch.40 Size of Opening .020" Diameter 1 1/2 Inches Length 5 Feet

Range in Depth { Top 46.5 Feet / Bottom 51.5 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute

FOR OBSERVATION PURPOSES ONLY

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this Sheet Are samples available? No
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.854
2916767

C-F sand, tr silt
0- 51.5'

BUREAU OF ... ALLEGHENY
JAN 11 1 40 PM '93
NJ...

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913854

PERMIT NO. 29-167768

APPLICATION NO. _____

COUNTY Monmouth

29,13,854
29167768

E

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. SD-2 SURFACE ELEVATION N/A (Above mean sea level) Feet

2. LOCATION Lot: 30.04 Block: 93 Municipality: Eatontown Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 50.3 Feet

5. CASING: Type Sch.40 PVC Diameter 1½ inches Length 45.3 Feet

6. SCREEN: Type Sch.40 Size of Opening .020" Diameter 1½ Inches Length 5 Feet

Range in Depth { Top 45.3 Feet / Bottom 50.3 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute

FOR OBSERVATION PURPOSES ONLY

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this Sheet Are samples available? NO
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.854
29.16768

F-M-C sand, tr f gravel, tr silt

0 - 50.3'

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913854

PERMIT NO. 29-167609

APPLICATION NO. _____

COUNTY Monmouth

29.13.854
29167609

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. SA-9 SURFACE ELEVATION N/A (Above mean sea level) Feet

2. LOCATION Lot: 30.04 Block: 93 Municipality: Eatontown Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 40.3 Feet

5. CASING: Type Sch.40 PVC Diameter 1 1/2 Inches Length 35.3 Feet

6. SCREEN: Type Sch.40 Size of Opening .020" Diameter 1 1/2 Inches Length 5 Feet

Range in Depth { Top 35.3 Feet / Bottom 40.3 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute

FOR OBSERVATION PURPOSES ONLY

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this Sheet Are samples available? NO
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29,13.854
29167769

F-M-C sand, tr SILT

0-40.3

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913854

PERMIT NO. 29-16770

APPLICATION NO. _____

COUNTY Monmouth

29.13.854
2916770

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. SD-13 SURFACE ELEVATION N/A (Above mean sea level) Feet

2. LOCATION Lot: 30.04 Block: 93 Municipality: Eatontown Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 41.5 Feet

5. CASING: Type Sch. 40 PVC Diameter 1 1/2 Inches Length 36.5 Feet

6. SCREEN: Type Sch. 40 Size of Opening .020" Diameter 1 1/2 Inches Length 5 Feet

Range in Depth { Top 36.5 Feet / Bottom 41.5 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute

FOR OBSERVATION PURPOSES ONLY

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this Sheet Are samples available? NO
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29,13.854
2910770

F Sand, tr SILT

0- 41.5

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913854

PERMIT NO. 29-16771

APPLICATION NO. _____

COUNTY Monmouth

29,13.854
2916771

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET
   Owner's Well No. SE-1 SURFACE ELEVATION N/A (Above mean sea level) Feet
2. LOCATION Lot: 50,04 Block: 93 Municipality: Eatontown Boro
3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING
4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 36.5 Feet
5. CASING: Type Sch.40 PVC Diameter 1½ Inches Length 31.5 Feet
6. SCREEN: Type Sch.40 Size of Opening .020" Diameter 1½ Inches Length 5 Feet
   Range in Depth { Top 31.5 Feet / Bottom 36.5 Feet } Geologic Formation _____
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type NONE Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG Back of this Sheet Are samples available? No
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Drillers Log
14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

FOR OBSERVATION PURPOSES ONLY

29,13.854
2916771

Clay & silt, tr of sand
0-36.5'

BUREAU OF ALLOCATION
JAN 11 1 40 PM '93

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913854

PERMIT NO. 29-16772

APPLICATION NO. 6

COUNTY Monmouth

29.13.854
2916772

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. SE-6 SURFACE ELEVATION N/A Feet (Above mean sea level)

2. LOCATION Lot: 30.04 Block: 93 Municipality: Eatontown Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 36.5 Feet

5. CASING: Type Sch. 40 PVC Diameter 1 1/2 inches Length 31.5 Feet

6. SCREEN: Type Sch. 40 Size of Opening .020" Diameter 1 1/2 inches Length 5 Feet

Range in Depth { Top 31.5 Feet / Bottom 36.5 Feet } Geologic Formation

Tail Piece: Diameter Inches Length Feet

7. WELL FLOWS NATURALLY Gallons per minute at Feet above surface

Water rises to Feet above surface

8. RECORD OF TEST: Date NONE Yield Gallons per minute

FOR OBSERVATION PURPOSES ONLY

Static water level before pumping Feet below surface

Pumping level feet below surface after hours pumping

Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown

How pumped How measured

Observed effect on nearby wells

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name

Capacity G.P.M. How Driven H.P. R.P.M.

Depth of Pump in well Feet Depth of Footpiece in well Feet

Depth of Air Line in well Feet Type of Meter on Pump Size Inches

10. USED FOR GW Monitoring AMOUNT { Average Gallons Daily / Maximum Gallons Daily }

11. QUALITY OF WATER Sample: Yes No

Taste Odor Color Temp. °F.

12. LOG Back of this Sheet Are samples available? No
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.854
2916772

CF sand, tr. silt

0- 36.5'

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913854

PERMIT NO. 29-16773

APPLICATION NO. _____

COUNTY Monmouth

29,13,854
29 16773

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. SF-3 SURFACE ELEVATION N/A Feet (Above mean sea level)

2. LOCATION Lot: 30.04 Block: 93 Municipality: Eatontown Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 41.5 Feet

5. CASING: Type Sch. 40 PVC Diameter 1 1/2 Inches Length 36.5 Feet

6. SCREEN: Type Sch. 40 Size of Opening .020" Diameter 1 1/2 Inches Length 5 Feet

Range in Depth { Top 36.5 Feet / Bottom 41.5 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute

FOR OBSERVATION PURPOSES ONLY

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this Sheet Are samples available? NO
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29, 13, 854
2916773

F sand, sm silt

0 - 41.5'

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913854

PERMIT NO. 29-16774

APPLICATION NO. _____ C

COUNTY Monmouth

29,13.854
2916774

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. SF-1 SURFACE ELEVATION N/A (Above mean sea level) Feet

2. LOCATION Lot: 30.04 Block: 93 Municipality: Eatontown Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 41.5 Feet

5. CASING: Type Sch. 40 PVC Diameter 1 1/2 Inches Length 36.5 Feet

6. SCREEN: Type Sch. 40 Size of Opening .020" Diameter 1 1/2 Inches Length 5 Feet

Range in Depth { Top 36.5 Feet / Bottom 41.5 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute

FOR OBSERVATION PURPOSES ONLY

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this Sheet Are samples available? No
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.854
291L774

F Sand, tr SILT

0 - 41.5'

Form DWR-138
11/80

Coord: 291388 2

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-16775

APPLICATION NO.

COUNTY Monmouth

29,13,882

39

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. SB-2 SURFACE ELEVATION N/A Feet (Above mean sea level)

2. LOCATION Lot: 8A9A Block: 113 Municipality: Tinton Falls Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 63 Feet

5. CASING: Type Sch. 40 PVC Diameter 1½ Inches Length 58 Feet

6. SCREEN: Type Sch. 40 Size of Opening .020" Diameter 1½ Inches Length 5 Feet

Range in Depth { Top 58 Feet / Bottom 63 Feet } Geologic Formation

Tail Piece: Diameter Inches Length Feet

7. WELL FLOWS NATURALLY Gallons per minute at Feet above surface

Water rises to Feet above surface

FOR OBSERVATION PURPOSES ONLY

8. RECORD OF TEST: Date NONE Yield Gallons per minute

Static water level before pumping Feet below surface

Pumping level feet below surface after hours pumping

Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown

How pumped How measured

Observed effect on nearby wells

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name

Capacity G.P.M. How Driven H.P. R.P.M.

Depth of Pump in well Feet Depth of Footpiece in well Feet

Depth of Air Line in well Feet Type of Meter on Pump Size Inches

10. USED FOR GW Monitoring AMOUNT { Average Gallons Daily / Maximum Gallons Daily }

11. QUALITY OF WATER Sample: Yes No

Taste Odor Color Temp. °F.

12. LOG Back of this sheet Are samples available? No
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.882
2916775

F-M-C sand, tr f gravel, tr SILT

0-15'

F-M-C Sand, tr SILT

15'-45'

F Sand, tr SILT

45'-63'

Form DWR-138
11/80

Coord: 291388 2

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-16776

APPLICATION NO.

COUNTY Monmouth

29.13.802

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. SB-9 SURFACE ELEVATION N/A Feet (Above mean sea level)

2. LOCATION Lot: 8A9A Block: 113 Municipality: Tinton Falls Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 76.5 Feet

5. CASING: Type Sch. 40 PVC Diameter 1½ Inches Length 71.5 Feet

6. SCREEN: Type Sch. 40 Size of Opening .020" Diameter 1½ Inches Length 5 Feet

Range in Depth { Top 71.5 Feet / Bottom 76.5 Feet } Geologic Formation

Tail Piece: Diameter Inches Length Feet

7. WELL FLOWS NATURALLY Gallons per minute at Feet above surface

Water rises to Feet above surface

FOR OBSERVATION PURPOSES ONLY

8. RECORD OF TEST: Date NONE Yield Gallons per minute

Static water level before pumping Feet below surface

Pumping level feet below surface after hours pumping

Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown

How pumped How measured

Observed effect on nearby wells

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name

Capacity G.P.M. How Driven H.P. R.P.M.

Depth of Pump in well Feet Depth of Footpiece in well Feet

Depth of Air Line in well Feet Type of Meter on Pump Size Inches

10. USED FOR GW Monitoring AMOUNT { Average Gallons Daily / Maximum Gallons Daily }

11. QUALITY OF WATER Sample: Yes No

Taste Odor Color Temp. °F.

12. LOG Back of this sheet Are samples available? No.
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.882
2916725

Clay & silt, tr of sand

0 - 40'

C-F sand, tr. silt

40' - 76.5'

Form DWR-138
11/80

39

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913854

PERMIT NO. 29-16777

APPLICATION NO. _____

COUNTY Monmouth

29.13.854
2916777

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. R-403L SURFACE ELEVATION N/A Feet (Above mean sea level)

2. LOCATION Lot: N/A Block: N/A Municipality: Eatontown Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 46.5 Feet

5. CASING: Type Sch. 40 PVC Diameter 1 1/2 Inches Length 41.5 Feet

6. SCREEN: Type Sch. 40 Size of Opening .020" Diameter 1 1/2 Inches Length 5 Feet

Range in Depth { Top 41.5 Feet / Bottom 46.5 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute

FOR OBSERVATION PURPOSES ONLY

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this Sheet Are samples available? NO
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.854
2916777

CMF Sand, tr SILT
0 - 16.5'
F Sand, SILTY
16.5 - 28.5
CMF Sand, tr trash
28.5 - 46.5

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913854

PERMIT NO. 29-16778

APPLICATION NO. _____

COUNTY Monmouth

29.13.854
2916778

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. R-406 SURFACE ELEVATION N/A (Above mean sea level) Feet

2. LOCATION Lot: N/A Block: N/A Municipality: Eatontown Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 41.5 Feet

5. CASING: Type Sch.40 PVC Diameter 1 1/2 Inches Length 36.5 Feet

6. SCREEN: Type Sch.40 Size of Opening .020" Diameter 1 1/2 Inches Length 5 Feet

Range in Depth { Top 36.5 Feet / Bottom 41.5 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute

FOR OBSERVATION PURPOSES ONLY

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this Sheet Are samples available? No
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.854
2916778

FMC sand 0-1.5'

F Sand, sm SILT
1.5'-11.5'

F Sand, tr SILT
11.5'-36.5'

F Sand, sm SILT
36.5'-41.5'

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913854

PERMIT NO. 29-16779

APPLICATION NO. _____

COUNTY Monmouth

29.13.854
2916779

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. R-401L SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Lot: 30 Block: 93 Municipality: Eatontown Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 60.4 Feet

5. CASING: Type Sch.40 PVC Diameter 1 1/2 Inches Length 55.4 Feet

6. SCREEN: Type Sch.40 Size of Opening .020" Diameter 1 1/2 Inches Length 5 Feet

Range in Depth { Top 55.4 Feet / Bottom 60.4 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute

FOR OBSERVATION PURPOSES ONLY

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this Sheet Are samples available? NO
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.854
2916779

CMF sand, tr f gravel

0 - 36.5'

CMF sand, tr clay, tr SILT

36.5' - 60.4'

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913858

PERMIT NO. 29-16780 E

APPLICATION NO. _____

COUNTY Monmouth

29.13.858
29 16780

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. R 4.55 SURFACE ELEVATION N/A Feet (Above mean sea level)

2. LOCATION Lot: 1.2 Block: 115 Municipality: Tinton Falls Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 46.5 Feet

5. CASING: Type Sch.40 PVC Diameter 1½ Inches Length 41.5 Feet

6. SCREEN: Type Sch.40 Size of Opening .020 Diameter 1½ Inches Length 5 Feet

Range in Depth { Top 41.5 Feet / Bottom 46.5 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

FOR OBSERVATION PURPOSES ONLY

8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this sheet Are samples available? No
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.858
2916780

MF sand, tr silt

0 - 1.5'

CMF sand, tr f gravel

1.5' - 16.5'

MF sand, tr clay, tr silt

16.5' - 46.5'

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913858

PERMIT NO. 29-16781 E

APPLICATION NO. _____

COUNTY Monmouth

29.13.858
29 16781

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET
   Owner's Well No. R 458 SURFACE ELEVATION N/A Feet (Above mean sea level)
2. LOCATION Lot: 1.2 Block: 115 Municipality: Tinton Falls Boro
3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING
4. DIAMETER: Top 8 inches Bottom 8 Inches TOTAL DEPTH 16.5 Feet
5. CASING: Type Sch.40 PVC Diameter 1½ Inches Length 11.5 Feet
6. SCREEN: Type Sch.40 Size of Opening .020 Diameter 1½ Inches Length 5 Feet
   Range in Depth { Top 11.5 Feet / Bottom 16.5 Feet } Geologic Formation _____
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute
   FOR OBSERVATION PURPOSES ONLY
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type NONE Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG Back of this sheet Are samples available? No
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Drillers Log
14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.858
2916781

MF Sand, tr silt
0 ~ 116.5'

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913858

PERMIT NO. 29-16782

E

APPLICATION NO. _____

COUNTY Monmouth

29,13.858
29 16782

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET
   Owner's Well No. SG-2 SURFACE ELEVATION N/A (Above mean sea level) Feet
2. LOCATION Lot: 1, 2 Block: 115 Municipality: Tinton Falls Boro
3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING
4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 36.5 Feet
5. CASING: Type Sch. 40 PVC Diameter 1½ Inches Length 31.5 Feet
6. SCREEN: Type Sch. 40 Size of Opening .020 Diameter 1½ Inches Length 5 Feet
   Range in Depth { Top 31.5 Feet / Bottom 36.5 Feet } Geologic Formation _____
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute FOR OBSERVATION PURPOSES ONLY
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type NONE Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. ____ °F.
12. LOG Back of this sheet Are samples available? No
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Drillers Log
14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29,13,858
2916782

CMF Sand, tr roots, tr SILT

0-30.5'

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913858

PERMIT NO. 29-16783

APPLICATION NO. _____

E

COUNTY Monmouth

2913858
29160783

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET
   Owner's Well No. 36-9 SURFACE ELEVATION N/A Feet (Above mean sea level)
2. LOCATION Lot: 1.2 Block: 115 Municipality: Tinton Falls Boro
3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING
4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 40.8 Feet
5. CASING: Type Sch.40 PVC Diameter 1½ Inches Length 35.8 Feet
6. SCREEN: Type Sch.40 Size of Opening .020 Diameter 1½ Inches Length 5 Feet
   Range in Depth { Top 35.8 Feet / Bottom 40.8 Feet } Geologic Formation _____
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute
   FOR OBSERVATION PURPOSES ONLY
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type NONE Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG Back of this sheet Are samples available? No
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Drillers Log
14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.858
2916783

F Sand, tr SILT

0 - 40.8'

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913858

PERMIT NO. 29-16784

APPLICATION NO. _____

E

COUNTY Monmouth

29,13,858
2916784

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. SH-2 SURFACE ELEVATION N/A Feet (Above mean sea level)

2. LOCATION Lot: 12 Block: 115 Municipality: Tinton Falls Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 46.5 Feet

5. CASING: Type Sch.40 PVC Diameter 1½ Inches Length 41.5 Feet

6. SCREEN: Type Sch.40 Size of Opening .020 Diameter 1½ Inches Length 5 Feet

Range in Depth { Top 41.5 Feet / Bottom 46.5 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

FOR OBSERVATION PURPOSES ONLY

8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this sheet Are samples available? No
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.858
2916784

F Sand, tr silt

0 – 46.5'

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913858

PERMIT NO. 29-16785

APPLICATION NO. _____

E

COUNTY Monmouth

29.13.858
2916785

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. R472 SURFACE ELEVATION N/A Feet (Above mean sea level)

2. LOCATION Lot: 1.2 Block: 115 Municipality: Tinton Falls Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 11.5 Feet

5. CASING: Type Sch.40 PVC Diameter 1½ Inches Length 6.5 Feet

6. SCREEN: Type Sch.40 Size of Opening .020 Diameter 1½ Inches Length 5 Feet

Range in Depth { Top 6.5 Feet / Bottom 11.5 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

FOR OBSERVATION PURPOSES ONLY

8. RECORD OF TEST: Date NONE Yield _____ Gallons per minute

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this sheet Are samples available? No
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.858
2916785

MF Sand, tr clay
0 - 1.5'

OMF Sand, sm silt
1.5' - 6.5'

M-F Sand
6.5' - 11.5'

JAN 11 1 42 PM '93

Form DWR-138
11/80

39

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913863

PERMIT NO. 29-167786

APPLICATION NO. _____

COUNTY Monmouth

29,13,863
29167786

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET
   Owner's Well No. R-407 SURFACE ELEVATION N/A Feet (Above mean sea level)
2. LOCATION Lot: 3002 Block: 93 Municipality: Eatontown Boro
3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING
4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 31.5 Feet
5. CASING: Type Sch.40 PVC Diameter 1½ Inches Length 26.5 Feet
6. SCREEN: Type Sch.40 Size of Opening .020 Diameter 1½ Inches Length 5 Feet
   Range in Depth { Top 26.5 Feet / Bottom 31.5 Feet } Geologic Formation _____
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date None Yield _____ Gallons per minute
   FOR OBSERVATION PURPOSES ONLY
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type None Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. ____ °F.
12. LOG Back of this sheet Are samples available? No
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Drillers Log
14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29,13,863
29116786

tr f sand, tr SILT
0-24'
F-M sand, tr SILT
24'-31.5'

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 2913863

PERMIT NO. 29-16787

APPLICATION NO. _____ E

COUNTY Monmouth

29.13.863
2916787

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET
   Owner's Well No. R-423 SURFACE ELEVATION N/A Feet (Above mean sea level)
2. LOCATION Lot: 3002 Block: 93 Municipality: Eatontown Boro
3. DATE COMPLETED 7/30/82 DRILLER TESTWELL CRAIG TEST BORING
4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 46.5 Feet
5. CASING: Type Sch.40 PVC Diameter 1½ Inches Length 41.5 Feet
6. SCREEN: Type Sch.40 Size of Opening .020" Diameter 1½ Inches Length 5 Feet
   Range in Depth { Top 41.5 Feet / Bottom 46.5 Feet } Geologic Formation _____
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date None Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____

FOR OBSERVATION PURPOSES ONLY

9. PERMANENT PUMPING EQUIPMENT:
   Type None Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG Back of this sheet Are samples available? No
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Drillers Log
14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

Clay & SILT, tr of sand 29.13.863
29.16.787

0 - 1.5'

C-F sand, tr SILT

1.5' - 46.5'

Form DWR-138
11/80

Coord: 2913864

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-16788

39

APPLICATION NO. _____

COUNTY Monmouth

29.13.864
2916788

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. R-425 SURFACE ELEVATION N/A Feet (Above mean sea level)

2. LOCATION Lot: 3003 Block: 93 Municipality: Eatontown Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 46.5 Feet

5. CASING: Type Sch.40 PVC Diameter 1½ Inches Length 41.5 Feet

6. SCREEN: Type Sch.40 Size of Opening .020" Diameter 1½ Inches Length 5 Feet

Range in Depth { Top 41.5 Feet / Bottom 46.5 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date NONE Yield FOR OBSERVATION PURPOSES ONLY

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this sheet Are samples available? No
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29.13.864
2916788

M-F Sand 0-1.5'

M-F Sand, tr clay, tr SILT
1.5'-16.5'

CMF Sand 16.5'-22.5'

MF Sand, clay
22.5'-26.5'

CMF Sand, tr SILT
26.5'-41.5'

MF Sand 41.5'-46.5'

NJ DEP - DWQ
JAN 11 1 48 PM '93
BUREAU OF ALLOCATION

Form DWR-138
11/80

Coord: 2913864

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-16789

APPLICATION NO. _____

COUNTY Monmouth

29.13.864
29/6789

WELL RECORD

1. OWNER NJ DOT ADDRESS 306 MAIN STREET

Owner's Well No. R-427 L SURFACE ELEVATION N/A Feet (Above mean sea level)

2. LOCATION Lot: 3003 Block: 93 Municipality: Eatontown Boro

3. DATE COMPLETED 7/30/86 DRILLER TESTWELL CRAIG TEST BORING

4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 45.9 Feet

5. CASING: Type Sch.40 PVC Diameter 1½ Inches Length 40.9 Feet

6. SCREEN: Type Sch.40 Size of Opening .020" Diameter 1½ Inches Length 5 Feet

Range in Depth { Top 40.9 Feet / Bottom 45.9 Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date NONE Yield ~~Gallons per minute~~ FOR OBSERVATION PURPOSES ONLY

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type NONE Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR GW Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG Back of this sheet Are samples available? No
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Drillers Log

14. DATA OBTAINED BY Testwell Craig Test Boring Date 11/12/92

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

29,13,864
29160789

F-M-C Sand, tr f gravel, tr SILT
0 - 12'

F-M-C sand, tr SILT
12' - 36.5'

F Sand, tr SILT
36.5-45.9

Form DWR-138
11/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17933
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address ~~806 Highway 71, P.O. Box 394~~
City ~~Spring Lake Heights~~ State ~~N.J.~~ Zip Code ~~07762~~
Name of Driller ~~Dennis B. Davis~~ License No. ~~M987~~

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17933
29, 13. 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

no LOG

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17935
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17935
29. 13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

no log

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17936
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17936
29. 13. 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

no Log

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17937
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. DAvis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17937
29. 13. 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

NO LOG

LOG	Thick.	Lith.	Fm.

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17938
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed affects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17938
29. 13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG	Thick.	Lith.	Fm.
no log			

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17939
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17939
29. 13. 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

NO LOG

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 — 17940
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1050

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17940
29. 13. 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

no Log

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17941
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. DAvis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17941
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

NO LOG

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17942
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ____ / ____ / ____
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address ~~806 Highway 71, P.O. Box 394~~
City ~~Spring Lake Heights~~ State ~~N.J.~~ Zip Code ~~07762~~
Name of Driller ~~Dennis B. DAvis~~ License No. ~~M987~~

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17942

29-13-836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

no Log

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17943
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status

WATER USE dewatering Average gals. daily Maximum gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date / /
Static water-level before pumping ft. below land surface. Water level ft. below land surface after hrs. of pumping.
Water level was measured using Drawdown ft.
Discharge rate measured using Discharge Rate gals. per min.
Well was pumped using Specific Capacity gals. per min. per ft. of drawdown
Observed effects on nearby wells
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers GPM at PSI pressure.
POWER: HP at RPM Power Source
DEPTHS: Pump ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17943
29. 13. 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

NO LOG

LOG	Thick.	Lith.	Fm.

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form BWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17944
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ____ / ____ / ____
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17944
29. 13. 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

no log

Thick.	Lith.	Fm.

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17945
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address ~~806 Highway 71, P.O. Box 394~~
City ~~Spring Lake Heights~~ State ~~N.J.~~ Zip Code ~~07762~~
Name of Driller ~~Dennis B. Davis~~ License No. _____

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17945
29. 13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

No Log

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17946
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address ~~806 Highway 71, P.O. Box 394~~
City ~~Spring Lake Heights~~ State ~~N.J.~~ Zip Code ~~07762~~
Name of Driller ~~Dennis B. Davis~~ License No. ~~M987~~

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17946
29. 13. 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

NO LOG

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 – 17947
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 45 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address ~~806 Highway 71, P.O. Box 394~~
City ~~Spring Lake Heights~~ State ~~N.J.~~ Zip Code ~~07762~~
Name of Driller ~~Dennis B. Davis~~ License No. ~~M987~~

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17947
29. 13. 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

No Log

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17948
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17948
29. 13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

NO LOG

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17949
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 3 / 20 / 87
Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using ~~temporary~~ topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per/min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17949
29. 13. 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

NO LOG

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form CWR-138
11/80

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 – 17950
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ____ / ____ / ____
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/66

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17950
29. 13. 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

No Log

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

Thick.	Lith.	Fm.

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17951
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ____ / ____ / ____
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. DAVIS License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17951
29. 13,836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

no log

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17952
Atlas Sheet Coordinates 29 : 13 : 856

OWNER IDENTIFICATION - Owner EASTONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATTONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ____ / ____ / ____
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 17952
29. 13. 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG no Log

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18127
Atlas Sheet Coordinates 29 . 13 . 836

OWNER IDENTIFICATION - Owner EATONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date _____ / _____ / _____
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after _____ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18127
29, 13, 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

NO LOG

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 — 18128
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 56

WELL USE temporary dewatering points Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 – 18128
29.13.836.

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG	Thick.	Lith.	Fm.
no log			

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18129
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed affects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18129
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG	Thick.	Lith.	Fm.
NO LOG			

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 18130
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering points Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18130
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

NO LOG

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 — 18131
Atlas Sheet Coordinates 29 : 13 836

OWNER IDENTIFICATION - Owner EATONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE Temporary Dewatering Point Status _____

WATER USE Dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18131
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

NO LOG

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 18132
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TOWNSHIP OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE Temporary Dewatering Points Status _____

WATER USE Dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 3 / 20 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 45 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.P. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis B. Davis License No. M987

Signature of Contractor _____ Date 8 / 14 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/95

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18132
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

LOG

NO LOG

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 2919285

APPLICATION NO. _____

WELL SEALED ...1/26/91.....

WELL RECORD

COUNTY Monmouth

29.13.8.63
2919285

1. OWNER Underwriters Adjusting Co. ADDRESS PO Box 688, Eatontown, NJ
   Owner's Well No. OW 10A SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION 15 Meridian Rd, Eatontown, NJ
3. DATE COMPLETED 8-23-85 DRILLER NEPCCO
4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 40 Feet
5. CASING: Type PVC Diameter 4 Inches Length 20 Feet
6. SCREEN: Type PVC Size of Opening .020 Diameter 4 Inches Length 20 Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation Vincentown
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Monitor AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Nepcco Geologist B. Beahan
14. DATA OBTAINED BY Nepcco Geologist D. Garland Date 9-2-87

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

Form DWR-138
1/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18579
Atlas Sheet Coordinates 29 : 13 836

OWNER IDENTIFICATION - Owner EATONTOWN, TWP. OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE Dewatering Point (Temporary) Status _____

WATER USE Dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 6 / 25 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 70 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis Buchanan License No. 1393

Signature of Contractor Tiger Construction Service Corp. Date 10 / 1 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18579
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

Installed a 13' x 2" Ø temporary dewatering point

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18579
Atlas Sheet Coordinates 29 : 13 836

OWNER IDENTIFICATION - Owner RATONTOWN, TWP. OF
Address 47 BROAD STREET
City RATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality RATONTOWN BORO Lot No. 43 Block No. 55

WELL USE Dewatering Point (Temporary) Status _____

WATER USE Dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 6 / 25 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 70 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ____ / ____ / ____
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis Buchanan License No. 1393

Signature of Contractor Tiger Construction Service Corp. Date 10 / 1 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18579
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

Installed a 13' x 2" Ø temporary dewatering point

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18580
Atlas Sheet Coordinates 29 : 13 836

OWNER IDENTIFICATION - Owner ~~EATONTOWN, TWP. OF~~
Address ~~47 BROAD STREET~~
City ~~EATONTOWN~~ State ~~NJ~~ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality ~~EATONTOWN BORO~~ Lot No. ~~43~~ Block No. ~~55~~

WELL USE Temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 6 / 25 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 70 ft. Elevation was determined using ~~topography map #29~~
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller DEnnis Buchannan License No. 1393

Signature of Contractor Tiger Construction Service Corp. Date 10 / 1 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18580
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

installed a 13' x 2" Ø temporary
dewatering point

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18581
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TWP. OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE Temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 6 / 25 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 70 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				

Grouting Method _____

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis Buchannan License No. 1393

Signature of Contractor Tiger Construction Service Corp. Date 10 / 1 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 – 18581

29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

installed a 13' x 2" Ø temporary dewatering point

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18582
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TWP. OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 6 / 25 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 70 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis Buchannan License No. 1393

Signature of Contractor Tiger Construction Corp. Date 10 / 1 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18582

29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

installed a 13' x 2" Ø temporary dewatering point

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18583
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TWP. OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 6 / 25 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.

Land Surface Elevation at well 70 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller DEnnis Buchannan License No. 1393

Signature of Contractor Tiger Construction Corp. Date 10 / 1 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18583
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

installed a 13' x 2" Ø temporary
dewatering point

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18584
Atlas Sheet Coordinates 29 : 13 836

OWNER IDENTIFICATION - Owner EATONTOWN, TWP. OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 6 / 25 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 70 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis Buchannan License No. 1393

Signature of Contractor Tiger Construction Corp. Date 10 / 1 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DER-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18584
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

installation of a 13' x 2" Ø temporary dewatering point

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18585
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TWP. OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 6 / 25 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 70 ft. Elevation was determined using topgraphy map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ____ / ____ / ____
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis Buchannan License No. 1393

Signature of Contractor Tiger Construction Service Corp. Date 10 / 1 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18585
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

installed a 13' x 2" Ø temporary
dewatering point

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18586
Atlas Sheet Coordinates 29 : 13 836

OWNER IDENTIFICATION - Owner EATONTOWN, TWP. OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 6 / 25 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 70 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis Buchannan License No. 1393

Signature of Contractor Tiger Construction Corp. Date 10 / 1 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18586
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

installation of a 13' x 2" Ø temporary dewatering point

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form 11/c '-138

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18587
Atlas Sheet Coordinates 29 : 13 836

OWNER IDENTIFICATION - Owner EATONTOWN, TWP. OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 6 / 25 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 70 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ____ / ____ / ____
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ____ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis Buchannan License No. 1393

Signature of Contractor Tiger Construction Service Corp. Date 10 / 1 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1104

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18587
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

installed a 13' x 2" Ø temporary dewatering point

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18588
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TWP. OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 6 / 25 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 70 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis ~~B~~ Buchannan License No. 1393

Signature of Contractor Tiger Construction Corp. Date 10 / 1 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18588
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

installed a 13' x 2" Ø temporary dewatering point

Thick.	Lith.	Fm.

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18589
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TWP. OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 6 / 25 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 70 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Highway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis Buchannan License No. 1393

Signature of Contractor Tiger Construction Service Dept Date 10 / 1 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
41/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18589
29. 13. 836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

installed a 13' x 2" Ø temporary dewatering point

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10' ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18590
Atlas Sheet Coordinates 29 : 13 : 836

OWNER IDENTIFICATION - Owner EATONTOWN, TWP. OF
Address 47 BROAD STREET
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address Pine Brook Road
County Monmouth Municipality EATONTOWN BORO Lot No. 43 Block No. 55

WELL USE temporary dewatering point Status _____

WATER USE dewatering Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION Date well completed 6 / 25 / 87
BOREHOLE DIMENSIONS Depths: Total 13 ft. Finished 13 ft.
Diameter: Top 2 in. Bottom 2 in.
Land Surface Elevation at well 70 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface _____ ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack				
Grout				
Grouting Method				

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date ___ / ___ / ___
Static water-level before pumping _____ ft. below land surface. Water level _____ ft. below land surface after ___ hrs. of pumping.
Water level was measured using _____ Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate _____ gals. per min.
Well was pumped using _____ Specific Capacity _____ gals. per min. per ft. of drawdown
Observed effects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 HIghway 71, P.O. Box 394
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis Buchannan License No. 1393

Signature of Contractor [signature] Date 10 / 1 / 87

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 18590
29.13.836

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☐ No

Drilling Method _____

Type of Rig _____

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

installed a 13' x 2" Ø temporary dewatering point

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

GEOLOGIST WELL LOG

29.13.8643
2919285

New England Pollution Control Co., Inc.
7 Edgewater Place
Norwalk, CT 16855

DRILL MASTER: DALE NELSON

PAGE OF

DESCRIPTION	THICKNESS (In Ft)	DEPTH
Concrete	.33	0-.33
Tannish green clayey silt, some fine sand.	4.17	.33-4.5
Light brown, some green fine to medium sand.	3.5	4.5-8
Fuel odor begins increasing with depth	-	8
Very strong fuel odor	-	.26
Dark green to fine to medium sand	3 2	8-40

OWNER: Hecon Facility Eatontown, NJ

LOCATION:

WELL NO: 10A

DATE COMPLETED: 8-23-85

DRILLING METHOD: Hollow Stem Auger

SAMPLE METHOD: Cuttings

SAMPLES EXAMINED BY: B. Beahan

REFERENCE POINT: Top of PVC casing

ELEVATION OF R. P.: 104.57 (Assumed Datum)

CASING: N/A

SCREEN TYPE: 20' solid PVC
20' slotted PVC

DIAMETER: 4-inch

STATIC WATER LEVEL:

SEP 8 '87

SEP 24 '85

WELREC 107 1268

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 2919286

APPLICATION NO. _____

COUNTY Monmouth
29.13.8.63
2919286

WELL RECORD

1. OWNER Underwriters Adjusting Co. ADDRESS PO Box 688, Eatontown, NJ
   Owner's Well No. OW 11A SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION 15 Meridian Rd Eatontown NJ
3. DATE COMPLETED 8-23-85 DRILLER _____
4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 40 Feet
5. CASING: Type PVC Diameter 4 Inches Length 20 Feet
6. SCREEN: Type PVC Size of Opening .020 Diameter 4 Inches Length 20 Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation Vincentown
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Monitor AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Nepera Geological [illegible]
14. DATA OBTAINED BY Nepera Geological [illegible] Date 9-2-87

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

GEOLOGIST WELL LOG

New England Pollution Control Co., Inc.
7 Edgewater Place
Norwalk, CT 16855

29, 13.863
2919286

DRILL MASTER: DALE NELSON

PAGE OF

DESCRIPTION	THICKNESS (In Ft)	DEPTH
Asphalt	.33	0-.33
Tannish brown medium sand with gravel and pebbles	4.67	.33-5
Tannish brown medium to fine sand with clean quartz pebbles and cobbles	5	5-10
Spoils begin to have greenish tint and feel sticky		
Fuel odor		22.33
Split spoon sample		25-27
Green fine to medium sand		10-40

OWNER:

LOCATION: Hecon Facility Eatontown, NJ

WELL NO: 11 A

DATE COMPLETED: 8-23-85

DRILLING METHOD: Hollow Stem Auger

SAMPLE METHOD: Cuttings & Split Spoon

SAMPLES EXAMINED BY: B. Beahan

REFERENCE POINT: Top of PVC Casing

ELEVATION OF R. P.: 106.66 (Assumed Datum)

CASING: N/A

SCREEN TYPE: 20' solid PVC
20' slotted PVC

DIAMETER: 4-inch

STATIC WATER LEVEL:

Sep 8 '87

Sep 24 '87

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29/9287

APPLICATION NO. _____

COUNTY Monmouth

29-13-8-63
291928 7

WELL RECORD

1. OWNER Underwriters Adjusting Co ADDRESS PO Box 688, Eatontown, NJ
   Owner's Well No. OW 12A SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION 5 Meridian Rd, Eatontown NJ
3. DATE COMPLETED 8-24-85 DRILLER NEPCCO
4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 40 Feet
5. CASING: Type PVC Diameter 4 Inches Length 20 Feet
6. SCREEN: Type PVC Size of Opening .020 Diameter 4 Inches Length 20 Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation Vincentown
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Monitor AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA R Becker
14. DATA OBTAINED BY R Falanel Date 9-2-87

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

GEOLOGIST WELL LOG

29,19.863.
2919287

New England Pollution Control Co., Inc.
7 Edgewater Place
Norwalk, CT 16855

DRILL MASTER: DALE NELSON

PAGE OF

DESCRIPTION	THICKNESS (In Ft)	DEPTH
Asphalt	.33	0-.33
Tannish brown fine to	6.67	.33-7
Medium sand, some coarse		
sand, few small pebbles		
Lighter brown fine to	3	7-10
medium sand, some coarse		
sand, few small pebbles		
Fuel odor	-	22
Green fine to medium	30	10-40
sand		

OWNER:

LOCATION: Hecon Facility Eatontown, NJ

WELL NO: 12A

DATE COMPLETED: 8-24-85

DRILLING METHOD: Hollow Stem Auger

SAMPLE METHOD: Cuttings

SAMPLES EXAMINED BY: B. Beahan

REFERENCE POINT: Top of PVC casing

ELEVATION OF R. P.: 106.32 (Assumed Datum)

CASING: N/A

SCREEN TYPE: 20' solid PVC
20' slotted PVC

DIAMETER: 2 inch

STATIC WATER LEVEL:

SEP 8 '87

SEP 8 '87

WELREC 107 1272

Form DWR-138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 2919288

APPLICATION NO _____

COUNTY Monmouth

29.13.8.63
2919288

WELL RECORD

1. OWNER Underwriters Adjusting Co ADDRESS PO Box 688, Eatontown, NJ
   Owner's Well No. OW 13A SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION 15 Meridian Rd Eatontown NJ
3. DATE COMPLETED 8-24-85 DRILLER NERCCO
4. DIAMETER: Top 13 inches Bottom 13 inches TOTAL DEPTH 40 Feet
5. CASING: Type PVC Diameter 4 Inches Length 20 Feet
6. SCREEN: Type PVC Size of Opening .020 Diameter 4 Inches Length 20 Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation Vincentown
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST. Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Monitor AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No _____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA B. Burhan
14. DATA OBTAINED BY B. Garland Date 9-2-87

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

GEOLOGIST WELL LOG

New England Pollution Control Co., Inc.
7 Edgewater Place
Norwalk, CT 16855

29,13,863
2919288

DRILL MASTER: DALE NELSON

PAGE OF

DESCRIPTION	THICKNESS (In Ft)	DEPTH
Asphalt	.33	0-.33
Tannish brown medium to fine sand.	6.67	.33-7
Greenish brown medium sand, some coarse sand	8	7-15
Green medium, some coarse, glauconitic (sticky) sand (fuel odor at 22')	16	15-31
Tannish brown medium sand, some clay		31-40

OWNER:

LOCATION: Hecon Facility Eatontown, NJ

WELL NO: 13A

DATE COMPLETED: 8-24-85

DRILLING METHOD: Hollow Stem Auger

SAMPLE METHOD: Cuttings

SAMPLES EXAMINED BY: B. Beahan

REFERENCE POINT: Top of PVC casing

ELEVATION OF R. P.: 106.94 (Assumed Datum)

CASING: N/A

SCREEN TYPE: 20' solid PVC
20' slotted PVC

DIAMETER: 4-inch

STATIC WATER LEVEL:

SP 8 '87

SEP 24 '87

WELREC 107 1274

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 19540
Atlas Sheet Coordinates ~~29 13 829~~ : :

OWNER IDENTIFICATION - Owner WOLF PRESS/LINDA DALY
Address 1138 PINEBROOK ROAD
City TINTON FALLS ~~(WR:4D)~~ State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address Property: 1138 Pinebrook Road, Tinton Falls, NJ
County Cty: Monmouth Municipality TINTON FALLS BO Lot No. 8 Block No. 114

WELL USE WITHDRAWAL Status IN USE

WATER USE DOMESTIC Average 1,000 gals. daily Maximum 2,000 gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed COMPLETED: 87/11/25
Depths: Total TD: 215 ft. Finished ____ ft.
Diameter: Top 8.5 in. Bottom --- in.
Land Surface Elevation at well E: 40 ft. Elevation was determined using Topographic map
Casing Height (stick-up) above land surface 1.5" ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		L: 200	4.0"	Sched 40 PVC
Casing 2				
Casing 3				
Screen 1	Top: 200	~~10'~~	~~4.0"~~	~~Sched 40 PVC/.020~~
Screen 2				
Tail Piece		~~5'~~	~~4.0"~~	~~Sched 40 PVC~~
Gravel Pack	Top: 190	~~25'~~	~~8.5"~~	.025 Blended
Grout	~~Surface~~	~~L: 190~~		~~200 Mesh Bentonite~~
Grouting Method	Pressure thru tremie pipe			

WELL FLOWS NATURALLY ____ gals. per min. at ____ ft. above the land surface.
Water rises to ____ ft. above the land surface.

Test Date: 87/11/25

RECORD OF TEST Test Date ___/___/___ Level: 154
Static water-level before pumping Static: 33 ft. below land surface. Water level ____ ft. below land surface after 1 hrs. of pumping.
Water level was measured using estimated Drawdown DD: 121 ft.
Discharge rate measured using measured container Discharge Yield: 60 gals. per min.
Well was pumped using Air Lift Specific Capacity SpC: 0.5 gals. per min. per ft. of drawdown
Observed effects on nearby wells none
Water Quality (taste, odor, color, etc.) good

PERMANENT PUMPING EQUIPMENT Installed by PICKWICK WELL DRLG Pump Type Submersible
Mfrs. Name Gould/~~Red Jacket~~ Model Model: 10EJ07422
CAPACITY: Pump delivers ~~12 gpm~~ GPM at 40 PSI pressure.
POWER: ~~3/4 HP~~ HP at 3450 RPM Power Source ~~Electric~~
DEPTHS: Pump ~~Set: 130~~ ft. Footpiece ____ ft. Airline ____ ft.
FLOW METER: Model ____ installed on ____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address P.O. Box 6, Farmingdale, NJ 07727 (201 938 5300)
City State Zip Code
Name of Driller ~~David Primost~~ M 1041 License No.
Norman Primost J 1040
~~Allen Primost~~ J 1407
Signature of Contractor [signature] Date 88/02/07

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29_19540
29:13:829

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method: Mud Rotary

Type of Rig: T. H. Drive

Aquifer/Geo. Fm.: Kmw

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ___/___/___

LOG

		Thick.	Lith.	Fm.
0-35	Med. light green-brown sand			
35-45	Dark green sand with gray clay			
45-65	Gray clay with dark green clay and gray sand			
65-95	Dark green clay with black sand and gray silty clay			
95-115	Gray silty clay with some gray sand			
115-170	Gray clay with some shells and black sand			
170-175	Gray clay with gray sand and a trace of green pebbles			
175-195	Fine gray sand with some green pebbles			
195-	Silty gray sand and gray clay			

GWPI No. ___-___ NJPDES No. ___-___

Latitude ___° ___' ___" Longitude ___° ___' ___"

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ___/___/___

m DWR-138
/ /85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 20879
Atlas Sheet Coordinates 29 : 13 : 942

OWNER IDENTIFICATION - Owner RANGUALA, ANIS MD
Address 4 MEADOW LANE
City WEST LONG BRANCH State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address
County Monmouth Municipality WEst Long Branch ~~LONG VALLEY CIT~~ Lot No. 50.02 Block No. 61

WELL USE irrigation Status

WATER USE Average gals. daily Maximum gals. daily

WELL CONSTRUCTION Date well completed 8 / 13 / 88
BOREHOLE DIMENSIONS Depths: Total 90 ft. Finished 90 ft.
Diameter: Top 8 in. Bottom 8 in.
Land Surface Elevation at well 68 ft. Elevation was determined using topography map #29
Casing Height (stick-up) above land surface ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		70	4	Sch 40 PVC
Casing 2				
Casing 3				
Screen 1	70	15	4	.015 slot screen PVC
Screen 2		30		
Tail Piece		5	4	
Gravel Pack	60		8	
Grout		60		hole plug
Grouting Method			drop	

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date 8 / 13 / 88
Static water-level before pumping 40 ft. below land surface. Water level 60 ft. below land surface after 1 hrs. of pumping.
Water level was measured using dropline/M-scope Drawdown 20 ft.
Discharge rate measured using bucket Discharge Rate 90 gals. per min.
Well was pumped using air Specific Capacity 4.50 gals. per min. per ft. of drawdown
Observed effects on nearby wells none
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by David Van Brunt Jr. Pump Type Submersible
Mfrs. Name Red Jacket Model 7GC
CAPACITY: Pump delivers 25 GPM at 40 PSI pressure.
POWER: 1 ½ HP at 3450 RPM Power Source electricity
DEPTHS: Pump 65 ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor TIGER CONSTRUCTION CORP.
Address 806 Hwy. 71
City Spring Lake Heights State N.J. Zip Code 07762
Name of Driller Dennis Buchannan License No. J1393

Signature of Contractor Tiger Construction (W) Date 12 / 29 / 88

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

rm DWR-138
/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 20979
29.13.942

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method Mud Rotary

Type of Rig Failing CF-15

Aquifer/Geo. Fm. Vincenttown

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG

0-1 Clayey topsoil
1-35 fine to medium silty yellow sand and gravel
35-38 sandy green and yellow silt
38-90 fine to medium tan sand with hardpan

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. ~~29~~ - ~~21634~~
Atlas Sheet Coordinates ~~29~~ : ~~13~~ : ~~918~~

OWNER IDENTIFICATION - Owner ~~CHAN, MARVIN~~
Address ~~54 EMMA PLACE~~
City ~~EATONTOWN~~ State ~~NJ~~ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. 1
Address Emma Place Eatontown
County Monmouth Municipality ~~EATONTOWN BORO~~ Lot No. 13 Block No. 97

WELL USE (Irrigation) Withdrawal Status IN USE

WATER USE IRRIGATION Average 400 gals. daily Maximum 400 gals. daily

WELL CONSTRUCTION Date well completed Oct / 29 / 88
BOREHOLE DIMENSIONS Depths: Total 238 ft. Finished 238 ft.
Diameter: Top 8 in. Bottom 8 in.
Land Surface Elevation at well 97' ft. Elevation was determined using Bench Marker
Casing Height (stick-up) above land surface 1 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1				
Casing 2				
Casing 3		208'	4"	Sch #40 PVC
Screen 1		30'	4"	Sch#40 PVC X 15 Slot
Screen 2				
Tail Piece				
Gravel Pack		30'	8	#2 Sand
Grout		50		Bentonite
Grouting Method	pressure Grout			

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date Oct / 29 / 88
Static water-level before pumping 48' ft. below land surface. Water level 58' ft. below land surface after 2 hrs. of pumping.
Water level was measured using Bailer Line Drawdown 10 ft.
Discharge rate measured using 5 GAL. PAIL Discharge Rate 30 gals. per min.
Well was pumped using Submersible Specific Capacity 3 gals. per min. per ft. of drawdown
Observed effects on nearby wells none
Water Quality (taste, odor, color, etc.) Good

PERMANENT PUMPING EQUIPMENT Installed by Jonas Endreson Pump Type Submersible
Mfrs. Name Red-JACKET Model 22 gpm
CAPACITY: Pump delivers 22 GPM at 40 PSI pressure.
POWER: 1 HP at 3450 RPM Power Source Electric
DEPTHS: Pump 100' ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor JONAS ENDRESON
Address 40 3rd Bayway
City Toms River State NJ Zip Code 08753
Name of Driller Jonas Endreson License No. 1138

Signature of Contractor Jonas Endreson Date Oct / 29 / 88

COPIES: ~~White~~ - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 21634
29.13.918

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☑ No

Drilling Method Rotary

Type of Rig 1250 Failing

Aquifer/Geo. Fm. Mt. Laurel

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ____ / ____ / ____

LOG

0'-10' SC
10'-13' SP
13'-15' Shell
15'-30'
30-45' Light color shell w/ Fine Sand
45'-75' Dark color shell with Fine Sand
75-90 shell with fine Sand
90'-115' sp/sm/ml
115'-120 OL with some Shell
120-195 OL with some shell
195-204 OL/OH
204-210 Shell with fine Sand
210-238' Sp/Sm Pepper Sand & Shell

Thick.	Lith.	Fm.

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 21698
Atlas Sheet Coordinates 29 : 13 : 587

OWNER IDENTIFICATION - Owner Flock, John
Address 463 Tinton Ave.
City Tinton Falls State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address Same As Above
County Monmouth Municipality Tinton Falls Lot No. 2-01 Block No. 55

WELL USE Withdrawal Status In Use

WATER USE Domestic Average 2000 gals. daily Maximum 4000 gals. daily

WELL CONSTRUCTION Date well completed 88 / 11 / 11
BOREHOLE DIMENSIONS Depths: Total 186 ft. Finished ft.
Diameter: Top 8.5" in. Bottom ---- in.
Land Surface Elevation at well 55 ft. Elevation was determined using Topographic Map
Casing Height (stick-up) above land surface 1.5' ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		171	4.0"	Schedule 40 PVC
Casing 2				
Casing 3				
Screen 1	171	10	4"	Schedule 40 PVC/.020
Screen 2				
Tail Piece		5'	4"	
Gravel Pack	161	25'	8.5"	.025 Blended
Grout	Surface	161		200 mesh Bentonite
Grouting Method	Pressure, Thru Tremie Pipe			

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date 88 / 11 / 11
Static water-level before pumping 32 ft. below land surface. Water level 141 ft. below land surface after 1 hrs. of pumping.
Water level was measured using Estimated Drawdown 109 ft.
Discharge rate measured using Measured Container Discharge Rate 32 gals. per min.
Well was pumped using Air Lift Specific Capacity 0.3 gals. per min. per ft. of drawdown
Observed effects on nearby wells None
Water Quality (taste, odor, color, etc.) Good

PERMANENT PUMPING EQUIPMENT Installed by PICKWICK WELL DRLG Pump Type Submersible
Mfrs. Name Gould Model 10EJ07
CAPACITY: Pump delivers 12 GPM at 40 PSI pressure.
POWER: 3/4 HP at 3450 RPM Power Source Electric
DEPTHS: Pump 100 ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address P.O. Box 6, Farmingdale, NJ 07727 (201) 938 5300
City State Zip Code
Name of Driller ~~David Primost M1041~~ ~~Norman Primost J1040~~ Allen Primost J1407 License No.

Signature of Contractor Date 88, 12, 08

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 21698

29, 13, 587

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method: Mud Rotary

Type of Rig: T.H. Drive

Aquifer/Geo. Fm.: KMW

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ____ / ____ / ____

LOG

	Thick.	Lith.	Fm.
0-10 Gravel			
10-22 Silty Green Clay w/ Fine green Sand			
22-25 Coarse green Sand			
25-70 med & Coarse silty green Sand / Some silty green Clay / Some black Sand			
70-115 Grey Silty Clay / Some Fine grey Silty Sand / [illegible] Shells			
115-135 med Fine grey Sand / Some green pebbles			
135-186 Fine grey Sand / Shells / Some pebbles / trace lignite			

GWPI No. ____ - ____

NJPDES No. ____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

DWR-138A
1/88

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-21967.1 E
APPLICATION NO. _____
COUNTY _____
COORD. 29. 13. 8. 19
29-21967

WELL RECORD

1. OWNER Starola Realty ADDRESS _____
   Owner's Well No. W-2 SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Intersection Hope Rd + Rt. 36, Tinton Falls NJ
3. DATE COMPLETED 4/10/89 DRILLER Warren George Inc
4. DIAMETER: Top _____ inches Bottom _____ inches TOTAL DEPTH _____ Feet
5. CASING: Type _____ Diameter _____ Inches Length _____ Feet
6. SCREEN: Type _____ Size of Opening _____ Diameter _____ Inches Length _____ Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation See Attached log
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
   WELL SEALED 1/8/90
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR _____ AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No _____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Boring log
14. DATA OBTAINED BY Warren George Inc Date 5/9/89

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

N. Y. TEL. 267-3215

WARREN GEORGE, INC.

FOOT OF JERSEY AVENUE
P. O. BOX 413
JERSEY CITY, N.J. 07303

N. J. TEL. (201) 433-9797

29-13.819
29-21967

TEST BORINGS

Project Schering Corp. DOT wells, Rt 18 Twin Falls, N.J.

Boring No. W-2 Job No. _____ Rig No. _____ Date 4/10/59 19 _____

BORING LOG		SPOON SAMPLE AND CORE DATA				BLOWS ON CASING			
DEPTH FROM TO	DESCRIPTION OF MATERIAL	SAMPLE NUMBER	DEPTH FROM - TO	BLOWS PER FT. / CORE RECOV'D. INCHES	D=DRY U=UNDISTURBED T=TRAP W=WASH R=ROD C=CORE / CORE RECOV'D. NO. PCS. Remarks				
0/1'	Black Silt	1	0/2		3-2-3-4	0-1		59-60	
		2	5/7		2-3-3-4	1-2		60-61	
1'/3'	Yellow Br. F-M. Sand.	3	10/12		2-3-4-5	2-3		61-62	
		4	15/17		3-4-7-4	3-4		62-63	
3'/19'	Green M-F Sand. to silt	5	18/19'6"		23-37-105/6"	4-5		63-64	
						5-6		64-65	
19/19'6"	Green Glauconitic Sands + Shells.					6-7		65-66	
						7-8		66-67	
	EOB @ 19'6"					8-9		67-68	
						9-10		68-69	
	STOPPED at 19'6" due to compact					10-11		69-70	
						11-12		70-71	
	Confining layer				MATERIALS	12-13		71-72	
					7-Bags Sand.	13-14		72-73	
+2/3'6"	2" PVC Riser				1-Bucket Pellets.	14-15		73-74	
					1-Bag Cement	15-16		74-75	
3'6"/18'6"	2" PVC Screen				1-6" Protecting Pipe.	16-17		75-76	
						17-18		76-77	
0/2'6"	Cement Grout.					18-19		77-78	
						19-20		78-79	
2'6"/3'	Bentonite Seal					20-21		79-80	
						21-22		80-81	
3'	Sand Pack.					22-23		81-82	
						23-24		82-83	
						24-25		83-84	
						25-26		84-85	
						26-27		85-86	
						27-28		86-87	
						28-29		87-88	
						29-30		88-89	
						30-31		89-90	
						31-32		90-91	
						32-33		91-92	
						33-34		92-93	
						34-35		93-94	
						35-36		94-95	
						36-37		95-96	
						37-38		96-97	
						38-39		97-98	
						39-40		98-99	
						40-41		99-100	
						41-42		100-101	
						42-43		101-102	
						43-44		102-103	
						44-45		103-104	
						45-46		104-105	
						46-47		105-106	
						47-48		106-107	
						48-49		107-108	
						49-50		108-109	

DWR-138A
1/88

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 2922685.6
APPLICATION NO. _____
COUNTY _____
COORD. 29.13.8.24

E

WELL RECORD

1. OWNER Starola Realty ADDRESS _____
   Owner's Well No. W-1 SURFACE ELEVATION _____ (Above mean sea level) Feet
2. LOCATION Intersection Hope Rd + Rt. 36, Tinton Falls, N.J.
3. DATE COMPLETED 5/2/89 DRILLER Warren George Inc.
4. DIAMETER: Top _____ inches Bottom _____ inches TOTAL DEPTH _____ Feet
5. CASING: Type _____ Diameter _____ Inches Length _____ Feet
6. SCREEN: Type _____ Size of Opening _____ Diameter _____ Inches Length _____ Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation See Attached log
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR _____ AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No _____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Boring log
14. DATA OBTAINED BY Warren George Inc. Date 5/9/89

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

N. Y. TEL. 267-3215

WARREN GEORGE, INC.

FOOT OF JERSEY AVENUE
P. O. BOX 413
JERSEY CITY, N.J. 07303

N. J. TEL. (201) 433-9797

29.13.824
29-22685

TEST BORINGS

Project Southwoods Construction, Tinton Falls.

Boring No. W-1 Job No. _____ Rig No. _____ Date 5/2/89 19 _____

BORING LOG		SPOON SAMPLE AND CORE DATA				BLOWS ON CASING			
DEPTH FROM TO	DESCRIPTION OF MATERIAL	SAMPLE NUMBER	DEPTH FROM - TO	BLOWS PER FT. / CORE RECOV'D. INCHES	D=DRY U=UNDISTURBED T=TRAP W=WASH R=ROD C=CORE / CORE RECOV'D. -- NO. PCS. Remarks *	0--1		59-60	
0 / 2'	WHITE SAND + Top Soil	1	0/2		1-6-1-1	1--2		60-61	
		2	3/5		7-7-12-14	2--3		61-62	
2' / 8	Brown F. Sand. Little Silt	3	8/10		9-12-14-14	3--4		62-63	
		4	13/15			4--5		63-64	
8 / 23'	Brown M-F Sand, Tr. Silt	5	18/20			5--6		64-65	
						6--7		65-66	
						7--8		66-67	
	EOB @ 23'					8--9		67-68	
						9--10		68-69	
						10--11		69-70	
						11-12		70-71	
						12-13		71-72	
						13-14		72-73	
						14-15		73-74	
						15-16		74-75	
						16-17		75-76	
						17-18		76-77	
						18-19		77-78	
						19-20		78-79	
						20-21		79-80	
						21-22		80-81	
						22-23		81-82	
						23-24		82-83	
						24-25		83-84	
+2'6" / 3'	2" PVC Riser					25-26		84-85	
						26-27		85-86	
						27-28		86-87	
						28-29		87-88	
3' / 23'	2" PVC Screen.					29-30		88-89	
						30-31		89-90	
						31-32		90-91	
						32-33		91-92	
	1-6" Above Ground Locking Cap.					33-34		92-93	
						34-35		93-94	
						35-36		94-95	
						36-37		95-96	
	7-Bags Sand. 1-Bucket Pellets.					37-38		96-97	
						38-39		97-98	
						39-40		98-99	
	1-Bag Cement					40-41		99-100	
						41-42		100-101	
						42-43		101-102	
						43-44		102-103	
						44-45		103-104	
	1½ hr. well development time					45-46		104-105	
						46-47		105-106	
						47-48		106-107	
						48-49		107-108	
	1½ hr. well development					49-50		108-109	
						50-51		109-110	

WELREC 107 1001

DWR-138A
1/88

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 2922686-4
APPLICATION NO. _____
COUNTY _____
COORD. 29.13.8.24

E

WELL RECORD

1. OWNER Starola Realty ADDRESS _____
   Owner's Well No. W-3 SURFACE ELEVATION _____ (above mean sea level) Feet
2. LOCATION Intersection Hope Rd. + Rt. 36, Tinton Falls, N.J.
3. DATE COMPLETED 5/1/89 DRILLER Warren George Inc.
4. DIAMETER: Top _____ inches Bottom _____ inches TOTAL DEPTH _____ Feet
5. CASING: Type _____ Diameter _____ Inches Length _____ Feet
6. SCREEN: Type _____ Size of Opening _____ Diameter _____ Inches Length _____ Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation See Attached Log
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR _____ AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No _____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Boring Log
14. DATA OBTAINED BY Warren George Inc. Date 5/9/89

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

N. Y. TEL. 267-3215

WARREN GEORGE, INC.

FOOT OF JERSEY AVENUE
P. O. BOX 413
JERSEY CITY, N.J. 07303

N. J. TEL. (201) 433-8797

29.13.824
2922687

TEST BORINGS

Project Sherwood Construction, Tinton Falls, N.J.

Boring No. W-3 Job No. _____ Rig No. _____ Date 5/1/89 19 _____

BORING LOG		SPOON SAMPLE AND CORE DATA				BLOWS ON CASING			
DEPTH FROM TO	DESCRIPTION OF MATERIAL	SAMPLE NUMBER	DEPTH FROM - TO	BLOWS PER FT. / CORE RECOV'D. INCHES	D=DRY U=UNDISTURBED T=TRAP W=WASH R=ROD C=CORE / CORE RECOV'D. -- NO. PCS. Remarks				
0/2	Br. c-f Sand. little Silt	1	0/2		2-3-4-6	0--1		59-60	
		2	3/5		4-6-7-9	1-2		60-61	
2/13	Brn m-f Sand tr. Silt	3	8/10		4-6-8-9	2-3		61-62	
		4	13/15		7-12-14-24	3-4		62-63	
13/18'	Br. m-f Sand. tr. Silt	5	18/20		7-6-12-16	4-5		63-64	
	Bag B & C @ 18'					5-6		64-65	
						6-7		65-66	
						7-8		66-67	
						8-9		67-68	
						9-10		68-69	
						10-11		69-70	
						11-12		70-71	
						12-13		71-72	
						13-14		72-73	
						14-15		73-74	
						15-16		74-75	
						16-17		75-76	
						17-18		76-77	
						18-19		77-78	
						19-20		78-79	
						20-21		79-80	
						21-22		80-81	
						22-23		81-82	
						23-24		82-83	
						24-25		83-84	
+2/2'6"	2" PVC Riser					25-26		84-85	
						26-27		85-86	
						27-28		86-87	
						28-29		87-88	
2'6"/18'	2" PVC Screen					29-30		88-89	
						30-31		89-90	
						31-32		90-91	
						32-33		91-92	
	1-Above Gauge Bentonite Chipping cap					33-34		92-93	
						34-35		93-94	
						35-36		94-95	
						36-37		95-96	
	5-Bags Sand. 1-Bucket pellets.					37-38		96-97	
						38-39		97-98	
						39-40		98-99	
						40-41		99-100	
	1-Bag cement					41-42		100-101	
						42-43		101-102	
						43-44		102-103	
						44-45		103-104	
4/hr	Low-well development Time					45-46		104-105	
						46-47		105-106	
						47-48		106-107	
						48-49		107-108	
						49-50		108-109	
						50-51		109-110	

E

DWR-138A
1/88

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-22982
APPLICATION NO. _____
COUNTY MONMOUTH
COORD. 29·13·859

WELL RECORD

1. OWNER R.M. Shoemaker Co. ADDRESS 186 Montgomery Knoll Skillman, N.J. 08558
   Owner's Well No. #5 SURFACE ELEVATION 90 (Above mean sea level) Feet
2. LOCATION United Parcel Service Facility, 750 Hope Road, Tinton Falls, NJ
3. DATE COMPLETED 89/07/11 DRILLER Pickwick Well
4. DIAMETER: Top 8 1/2 inches Bottom 8 1/2 inches TOTAL DEPTH 37'-0" Feet
5. CASING: Type PVC Scheo 40 Diameter 4.0" Inches Length 17'-0" Feet
6. SCREEN: Type PVC Sch 40 Size of Opening .020 Diameter 4.0" Inches Length 20'-0" Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation KRB
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date 7-11-89 Yield 10 Gallons per minute
   Static water level before pumping 21'-7" Feet below surface
   Pumping level — feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type None Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Monitor Purposes Only AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Driller
14. DATA OBTAINED BY [signature] Date 89/08/04

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

Log

29.13.859
2922982

0 – 37' (UNIFORM THRU ENTIRE INTERVAL)
MEDIUM & COARSE GREEN SAND

SPLIT SPOON SAMPLES @ 5' INTERVALS.
SAMPLES HAVE BEEN RETAINED.

DSPrunn

SOIL SAMPLES Witnessed by Mr. DAVID PROSTKOFF
Div. of WATER RESOURCES

NJPDES PERMIT # NJ0051659

DEPT. ENV. PROTECTION
DIV. OF WATER RESOURCES
WATER ALLOCATION

A-138A
BE

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 29-23160
APPLICATION NO. _____
COUNTY _____
COORD. 29 / 13 / 819

WELL RECORD

1. OWNER Stradtla Realty ADDRESS _____
   Owner's Well No. MW-2 SURFACE ELEVATION _____ Feet (Above Mean Sea Level)
2. LOCATION Chester Hope Rd + Rt. 36
3. DATE COMPLETED 7-5-89 DRILLER Richard Gregory
4. DIAMETER: Top 6" inches Bottom 6" inches TOTAL DEPTH 19'6" Feet
5. CASING: Type PVC Diameter 2" inches Length 6'6" Feet
6. SCREEN: Type PVC Size of Opening _____ Diameter 2" inches Length 15' Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No _____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG _____ Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Boring log
14. DATA OBTAINED BY Warren George Inc. Date 4-2-90

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

DWR-1
1/86

RECEIVED
AUG 29 1989

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO 29-23339
APPLICATION NO. _____
COUNTY _____
COORD. 29.13.864

E

WELL RECORD

1. OWNER Jack Birnberg & Assoc. ADDRESS 61 Industrial Highway West
   Owner's Well No. B-1-8 SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Eatontown N.J.
3. DATE COMPLETED 8-24 DRILLER John Mathes & Assoc
4. DIAMETER: Top 8 inches Bottom 8 inches TOTAL DEPTH 20 Feet
5. CASING: Type _____ Diameter _____ Inches Length _____ Feet
6. SCREEN: Type _____ Size of Opening _____ Diameter _____ Inches Length _____ Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Test Borings AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No _____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG Attached Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA John Mathes & Assoc. Inc.
14. DATA OBTAINED BY Karl F. Hitzelberger Date _____

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

Boring
1 thru 8

PERMIT # 29-23339

29.13.864
2923339

0
2
4
6
8
10
12
14
16
18
20'

Last spoon

22'

Fill material

4'

Green sand. saturated 10'

silty sand (clay like 14'

Runny green sands.

20'

Runny green sand

22'

4 1/4 hollow stem Augers.
20 Ft. in depth
grouting From Bottom to top through Augers
with tremmy Pipe.

20' 22' Spoon hole collaspe due to
Runny sand.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23916
Atlas Sheet Coordinates 29 : 13 : 852

OWNER IDENTIFICATION - Owner BOHR, D. /ARIS CORP
Address 100 CRESCENT COURT, STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW#1
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 4/10/90
Regulatory Program Requiring Well ECRA Case I.D. # 88990 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 9' ft.
Well finished to 9' ft.
Borehole diameter:
Top 8 3/4 in.
Bottom 8 3/4 in.
Well was finished: ☐ above grade ☑ flush mounted
If finished above grade, casing height (stick up) above land surface 0 ft.
Was steel protective casing installed? ☐ Yes ☑ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	2'	4"	PVC sch 40
Outer Casing (Not Protective Casing)	none			
Screen (Note slot size)	2'	9'	4"	PVC sch 40 .020
Tail Piece	None			
Gravel Pack	1'	9'		#1 Morie
Annular Seal/Grout	0'	1'		Cement & Ben
Method of Grouting	Neat cement			

Static water level after drilling 3' ft.
Water level was measured using M-scope
Well was developed for 1 hours at 2 gpm
Method of development Bailed
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity — gpm
Pump type: —
Drilling Method Augers
Drilling Fluid None Type of Rig B57
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'-9' Tan & Green Med. & Fine Sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 8/15/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1138

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23917
Atlas Sheet Coordinates 29 : 13 : 852

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW2
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 4/10/90
Regulatory Program Requiring Well ECRA Case I.D. # ~~88990 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 13' ft.
Well finished to 13 ft.
Borehole diameter:
Top 8 3/4 in.
Bottom 8 3/4 in.
Well was finished: ☐ above grade ☑ flush mounted
If finished above grade, casing height (stick up) above land surface 0 ft.
Was steel protective casing installed? ☐ Yes ☑ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0'	2'	4"	pvc sch40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12'	4"	pvc sch40 .020
Tail Piece				
Gravel Pack	1'	12'		#1 morie
Annular Seal/Grout	0'	1'		Cement + Ben
Method of Grouting	Tremie			

Static water level after drilling 3' ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 2 gpm
Method of development Bailing
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity — gpm
Pump type: —
Drilling Method Augers
Drilling Fluid none Type of Rig B57
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-13' Tan + olive sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 8/17/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23918
Atlas Sheet Coordinates 29 : 13 : 852

OWNER IDENTIFICATION - Owner BOHK,D./ARTS CORP
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW3
County Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.02~~ Block No. ~~114.01~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 4/10/90
Regulatory Program Requiring Well ECRA Case I.D. # ~~88080 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 5870300

WELL CONSTRUCTION
Total depth drilled 12' ft.
Well finished to 12' ft.
Borehole diameter: Top 8 3/4 in. Bottom 8 3/4 in.
Well was finished: ☐ above grade ☑ flush mounted
If finished above grade, casing height (stick up) above land surface 0 ft.
Was steel protective casing installed? ☐ Yes ☑ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	2'	4"	pvc Sch 40
Outer Casing (Not Protective Casing)	/			
Screen (Note slot size)	2'	12'	4"	pvc Sch 40.020
Tail Piece				
Gravel Pack	1'	12'		#1
Annular Seal/Grout	0'	1'		Bentonite
Method of Grouting	Tremie			

Static water level after drilling 3' ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 3 gpm
Method of development Bailing
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity — gpm
Pump type: —
Drilling Method Augers
Drilling Fluid none Type of Rig B57
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Brown Green & Black
Med Silty sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 8/22/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23919
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BONK, D. /ARIS CORP.
Address 100 CRESCENT COURT, STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 4
County Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.02~~ Block No. ~~114.01~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 4/10/90
Regulatory Program Requiring Well ECRA Case I.D. # ~~88990 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 12' ft.
Well finished to 12' ft.
Borehole diameter:
Top 8 3/4 in.
Bottom 8 3/4 in.
Well was finished: ☐ above grade ☑ flush mounted
If finished above grade, casing height (stick up) above land surface 0 ft.
Was steel protective casing installed? ☐ Yes ☑ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	2'	4"	pvc sch 40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12'	4"	pvc sch 40. 020
Tail Piece				
Gravel Pack	1'	12'		#2
Annular Seal/Grout	0'	1'		Bentonite
Method of Grouting	Tremie			

Static water level after drilling 3' ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 3 gpm
Method of development Bailed
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity — gpm
Pump type: —
Drilling Method Augers
Drilling Fluid none Type of Rig B57 [illegible]
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Brown Green + olive coarse sand
0 - 12'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 8/22/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23920
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW5
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 4/10/90
Regulatory Program Requiring Well ECRA Case I.D. # 88990 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 5870300

WELL CONSTRUCTION

Total depth drilled 12' ft.
Well finished to 12' ft.
Borehole diameter:
Top 8 3/4 in.
Bottom 8 3/4 in.
Well was finished: ☐ above grade ☑ flush mounted
If finished above grade, casing height (stick up) above land surface 0 ft.
Was steel protective casing installed? ☐ Yes ☑ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0'	2'	4"	pvc sch 40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12'	4"	pvc sch 40 .020
Tail Piece				
Gravel Pack	1'	12'		#1
Annular Seal/Grout	0'	1'		Bentonite
Method of Grouting	Tremie			

Static water level after drilling 3' ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 3 gpm
Method of development Bailing
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity — gpm
Pump type: —
Drilling Method Augers
Drilling Fluid none Type of Rig B57
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Green + olive med sand
0-12'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 8/22/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23921
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 6
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories MONITORING Date well completed 4/12/90
Regulatory Program Requiring Well RCRA Case I.D. # 88990 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 12' ft.
Well finished to 12' ft.
Borehole diameter:
Top 8 3/4 in.
Bottom 8 3/4 in.
Well was finished: ☐ above grade ☑ flush mounted
If finished above grade, casing height (stick up) above land surface 0 ft.
Was steel protective casing installed? ☐ Yes ☑ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	2'	4"	pvc sch 40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12'	4"	pvc sch 40 .020
Tail Piece				
Gravel Pack	1'	12'		#1
Annular Seal/Grout	0'	1'		Bentonite
Method of Grouting	Tremie			

Static water level after drilling 4' ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 3 gpm
Method of development Bailed
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity — gpm
Pump type: —
Drilling Method Augers
Drilling Fluid none Type of Rig BST
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. M01328 MICHAEL KAVLUNAS
Name of Drilling Company GT Drlg.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

olive + Brown medsand
0-12

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 8/22/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23922
Atlas Sheet Coordinates 29 : 13 : 852

OWNER IDENTIFICATION - Owner BOWE, D./ARIS CORP.
Address 100 CRESCENT COURT, STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB-A
County Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.02~~ Block No. ~~114.01~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~BORING~~ Date well completed 4/11/90
Regulatory Program Requiring Well ~~ECRA~~ Case I.D. # ~~88000 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 2' ft.
Well finished to — ft.
Borehole diameter:
Top 4" in.
Bottom 4" in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ____ ft.
Water level was measured using
Well was developed for ____ hours at ____ gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity ____ gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Light Brown silty sand
0'-2'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23923
Atlas Sheet Coordinates 29 : 13 : 852

OWNER IDENTIFICATION - Owner BOHK,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB-B
County Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.02~~ Block No. ~~114.01~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~BORING~~ Date well completed 4/12/90
Regulatory Program Requiring Well ~~ECRA~~ Case I.D. # ~~88990 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 2' ft.
Well finished to ft.
Borehole diameter:
Top in.
Bottom in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ft.
Water level was measured using
Well was developed for hours at gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Green silty sand w-pebbles
0-2

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1142

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23924
Atlas Sheet Coordinates 29 : 13 : 852

OWNER IDENTIFICATION - Owner BOME,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SBC
County Municipality ~~TINTON FALLS BO~~ Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) ~~BORING~~ Date well completed 4/11/90
Regulatory Program Requiring Well ECRA Case I.D. # 88990 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 2'5" ft.
Well finished to ____ ft.
Borehole diameter:
Top 4" in.
Bottom 4" in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ____ ft.
Water level was measured using
Well was developed for ____ hours at ____ gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity ____ gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD P328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Pebbles + Brown Med
Silty Sand
0-2'5"

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 5/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23925
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB-D
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/11/90
Regulatory Program Requiring Well ECRA Case I.D. # 88990 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 2'5" ft.
Well finished to _____ ft.
Borehole diameter:
Top 4" in.
Bottom _____ in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface _____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling _____ ft.
Water level was measured using _____
Well was developed for _____ hours at _____ gpm
Method of development _____
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity _____ gpm
Pump type: _____
Drilling Method Hand Auger
Drilling Fluid _____ Type of Rig _____
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Brown Med Fine Sand
0-2'5"

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23928
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB-E
County Municipality ~~TINTON FALLS BO~~ Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) ~~BORING~~ Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # ~~88990 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 2.5" ft.
Well finished to ft.
Borehole diameter:
Top 4 in.
Bottom in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ft.
Water level was measured using
Well was developed for hours at gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☐ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Light Brown silty Sand
0-2'-5'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1151

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23927
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB-F
County Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.02~~ Block No. ~~114.01~~
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # ~~88990 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 2' ft.
Well finished to ____ ft.
Borehole diameter:
Top ____ in.
Bottom ____ in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ____ ft.
Water level was measured using
Well was developed for ____ hours at ____ gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity ____ gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. M01328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Light Brown silty sand
0-2'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23928
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOME,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SBG
County Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.02~~ Block No. ~~114.01~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~BORING~~ Date well completed 4/11/90
Regulatory Program Requiring Well ~~ECRA~~ Case I.D. # ~~88990 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 2' ft.
Well finished to ft.
Borehole diameter:
Top 4" in.
Bottom in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ft.
Water level was measured using
Well was developed for hours at gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. M01328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Brown Fine to Med Sand.
0'-2'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23929
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SBH
County Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.02~~ Block No. ~~114.01~~
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # 88990 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 2' ft.
Well finished to ____ ft.
Borehole diameter:
Top 4" in.
Bottom ____ in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ____ ft.
Water level was measured using
Well was developed for ____ hours at ____ gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity ____ gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD 1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Brown + Black med sand
0'-2'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23930
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SBI
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/12/90
Regulatory Program Requiring Well RCRA Case I.D. # 88990 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 2' ft.
Well finished to ____ ft.
Borehole diameter:
Top 4" in.
Bottom ____ in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ____ ft.
Water level was measured using ____
Well was developed for ____ hours at ____ gpm
Method of development ____
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity ____ gpm
Pump type: ____
Drilling Method ____
Drilling Fluid ____ Type of Rig ____
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☐ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Light Brown Med Sand
0-2'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23931
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BONE,D./ARIS CORP
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SBJ
County Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.02~~ Block No. ~~114.01~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~BORING~~ Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # ~~88990 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 2' ft.
Well finished to ____ ft.
Borehole diameter:
Top 4" in.
Bottom ____ in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ____ ft.
Water level was measured using ____
Well was developed for ____ hours at ____ gpm
Method of development ____
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity ____ gpm
Pump type: ____
Drilling Method Hand Auger
Drilling Fluid ____ Type of Rig ____
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Light Brown silty sand
0'-2'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23932
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE, D. /ARTS CORP.
Address 100 CRESCENT COURT, STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB-K
County Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.02~~ Block No. ~~114.01~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~BORING~~ Date well completed 4/11/90
Regulatory Program Requiring Well ~~ECRA~~ Case I.D. # ~~88990 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 2.5" ft.
Well finished to ____ ft.
Borehole diameter:
Top 4" in.
Bottom ____ in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ____ ft.
Water level was measured using
Well was developed for ____ hours at ____ gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity ____ gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☐ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1326
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Brown Fine silty Sand
0-2.5"

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23933
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOBE, D./ARIS CORP.
Address 100 CRESCENT COURT, STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB-L
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # 88990 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 5870300

WELL CONSTRUCTION
Total depth drilled 4' ft.
Well finished to ____ ft.
Borehole diameter:
Top 4" in.
Bottom ____ in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ____ ft.
Water level was measured using ____
Well was developed for ____ hours at ____ gpm
Method of development ____
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity ____ gpm
Pump type: ____
Drilling Method Hand Auger
Drilling Fluid ____ Type of Rig ____
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MO1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Brown + Tan Med Sand w/ some silts
0-4'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

4

MONITORING WELL RECORD

Well Permit No. 29 - 23934
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE, D./ARIS CORP.
Address 100 CRESCENT COURT, STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB M
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # 88990 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 5870300

WELL CONSTRUCTION
Total depth drilled 3' ft.
Well finished to ft.
Borehole diameter:
Top 4" in.
Bottom in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ft.
Water level was measured using
Well was developed for hours at gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☐ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Tan + Brown
0'-3'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23935
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB-N
County Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.02~~ Block No. ~~114.01~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~BORING~~ Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # ~~88990 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 2'5" ft.
Well finished to ____ ft.
Borehole diameter:
Top 4" in.
Bottom ____ in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ____ ft.
Water level was measured using
Well was developed for ____ hours at ____ gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity ____ gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. M01328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Tan & Brown silty sand
0-2'5"

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1160

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23936
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE, D./ARIS CORP.
Address 100 CRESCENT COURT, STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB-O
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # ~~88000 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 2' ft.
Well finished to ft.
Borehole diameter:
Top 4" in.
Bottom in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ft.
Water level was measured using
Well was developed for hours at gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Brown + Red silty sand
0'-2'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23937
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D /ARTS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB-P
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # 88090 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 2'5" ft.
Well finished to _____ ft.
Borehole diameter:
Top 4" in.
Bottom _____ in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface _____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling _____ ft.
Water level was measured using _____
Well was developed for _____ hours at _____ gpm
Method of development _____
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity _____ gpm
Pump type: _____
Drilling Method Hand Auger
Drilling Fluid _____ Type of Rig _____
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. M01328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Tan + Brown Med Sand
0-2'5"

02° E 2u3

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23938
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB-9
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # ~~88990 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) ATI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 2' ft.
Well finished to ft.
Borehole diameter:
Top 4" in.
Bottom in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ft.
Water level was measured using
Well was developed for hours at gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328 MICHAEL KAVLUNAS
Name of Drilling Company

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Tan + Brown Med-sand
0-2

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 7/31/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1163

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23939
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB-4
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # 88990 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled _____ ft.
Well finished to _____ ft.
Borehole diameter:
Top 8 3/4 in.
Bottom _____ in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface _____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling _____ ft.
Water level was measured using _____
Well was developed for _____ hours at _____ gpm
Method of development _____
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity _____ gpm
Pump type: _____
Drilling Method Auger
Drilling Fluid None Type of Rig B57
Name of Driller Michael KAVLUNAS
Health and Safety Plan submitted? ☐ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328 MICHAEL KAVLUNAS
Name of Drilling Company GT Drlg.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Tan + olive med. sand
0-2

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 8/22/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23940
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BONE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SBR
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # 88990 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 2' ft.
Well finished to — ft.
Borehole diameter:
Top — in.
Bottom — in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ft.
Water level was measured using
Well was developed for hours at gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid none Type of Rig B57
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. M01328 MICHAEL KAVLUNAS
Name of Drilling Company

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-2 Tansilts & Gravel

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 8/7/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23941
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SB5
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # 88000 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 2' ft.
Well finished to ft.
Borehole diameter:
Top in.
Bottom in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ft.
Water level was measured using
Well was developed for hours at gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid None Type of Rig B57
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'-2' Tan + Med.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 8/7/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23842
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SBT
County Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.02~~ Block No. ~~114.01~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~BORING~~ Date well completed 4/12/90
Regulatory Program Requiring Well ~~RCRA~~ Case I.D. # ~~88090 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled _____ ft.
Well finished to _____ ft.
Borehole diameter:
Top 8 3/4 in.
Bottom _____ in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface _____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling _____ ft.
Water level was measured using _____
Well was developed for _____ hours at _____ gpm
Method of development _____
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity _____ gpm
Pump type: _____
Drilling Method Augers
Drilling Fluid None Type of Rig B57
Name of Driller Michael Kavlunas
Heaith and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company GT Drlg MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Brown & Tan

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 8/22/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23943
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE, D./ARIS CORP.
Address 100 CRESCENT COURT, STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SBV
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # ~~88990 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTT Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 11 ft.
Well finished to ____ ft.
Borehole diameter:
Top ____ in.
Bottom ____ in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ____ ft.
Water level was measured using
Well was developed for ____ hours at ____ gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity ____ gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid None Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD 1328 MICHAEL KAVLUNAS
Name of Drilling Company GT Drlg

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Brown clayey sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 8/22/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1168

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 23944
Atlas Sheet Coordinates 29 : 13 : 853

OWNER IDENTIFICATION - Owner BOWE,D./ARIS CORP.
Address 100 CRESCENT COURT,STE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SBV
County Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.02~~ Block No. ~~114.01~~
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 4/12/90
Regulatory Program Requiring Well ECRA Case I.D. # ~~88990 & 88A14~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION
Total depth drilled 1.5" ft.
Well finished to ft.
Borehole diameter
Top 8 3/4 in.
Bottom in.
Well was finished: ☐ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling ft.
Water level was measured using
Well was developed for hours at gpm
Method of development
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity gpm
Pump type:
Drilling Method Hand Auger
Drilling Fluid None Type of Rig
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company GTI Drlg. MICHAEL KAVLUNAS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-1.5" Brown med sand.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 8/22/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 24555
Atlas Sheet Coordinates 29 : 13 : 819

OWNER IDENTIFICATION - Owner STRAVOLA REALTY
Address
City HED BANK State NJ Zip Code 07701

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-3
County Monmouth Municipality TINTON FALLS BO Lot No. 7.01 Block No. 11.5
Address

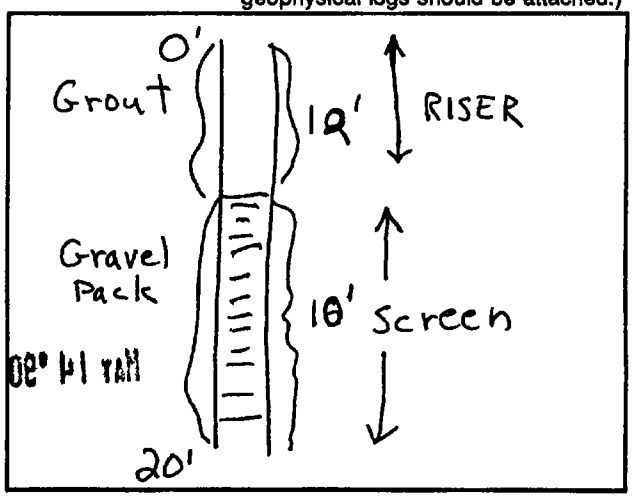
TYPE OF WELL (as per Well Permit Categories) Date well completed 1/10/90
Regulatory Program Requiring Well MONITORING Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) N/A Tele. # N/A

WELL CONSTRUCTION
Total depth drilled 20' ft.
Well finished to 20' ft.
Borehole diameter:
Top 8" in.
Bottom 8" in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	20'	4"	Sch. 40 PVC
Outer Casing (Not Protective Casing)	N/A			
Screen (Note slot size)	10'	20'	4"	.020 Slot
Tail Piece	N/A			
Gravel Pack	10'	20'	4"	#2 Morie Sand
Annular Seal/Grout	0	12		Bentonite
Method of Grouting	Tremie			

Static water level after drilling none ft.
Water level was measured using N/A
Well was developed for N/A hours at N/A gpm
Method of development N/A
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity — gpm
Pump type: —
Drilling Method Auger
Drilling Fluid — Type of Rig Mobil 61 S
Name of Driller Chad Kraft
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1402
Name of Drilling Company WARREN GEORGE INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Chad Kraft Date 5-11-90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

N. Y. TEL. 267-3215

WARREN GEORGE, INC.

FOOT OF JERSEY AVENUE
P. O. BOX 413
JERSEY CITY, N.J. 07303

N. J. TEL. (201) 433-9797

Permit# 2924555-9
Coord# 29.13.819

29.13.819
29-24555

TEST BORINGS

Project TINTON FALL NJ - SCHWONNO Corp 87

Boring No. W-3 Job No. _____ Rig No. _____ Date 1.10 19 90

BORING LOG		SPOON SAMPLE AND CORE DATA				BLOWS ON CASING			
DEPTH FROM TO	DESCRIPTION OF MATERIAL	SAMPLE NUMBER	DEPTH FROM - TO	BLOWS PER FT. / CORE RECOV'D. INCHES	D=DRY U=UNDISTURBED T=TRAP W=WASH R=ROD C=CORE / CORE RECOV'D. NO. PCS. Remarks	0--1		59-60	
						1--2		60-61	
						2--3		61-62	
						3--4		62 63	
						4--5		63-64	
						5--6		64-65	
0/2	Brown coarse		0-2		2-3-4-6	6--7		65 66	
						7--8		66-67	
						8--9		67 68	
	Fine sand little silt		5-7		4-6-7-9	9--10		68-69	
						10--11		69 70	
						11-12		70 71	
						12-13		71-72	
						13-14		72-73	
2/13	Brown Medium		8-10		4-6-8-9	14-15		73 74	
						15-16		74-75	
						16-17		75 76	
	Fine sand		13-15		7-12-14-24	17-18		76-77	
						18-19		77-78	
	trace silt					19-20		78-79	
						20-21		79-80	
13/20	Brown Medium		16-18		7-6-12-6	21-22		80-81	
						22-23		81-82	
	Fine sand					23-24		82-83	
						24-25		83-84	
						25-26		84-85	
						26-27		85-86	
	and trace silt					27-28		86-87	
						28-29		87-88	
						29-30		88-89	
						30-31		89-90	
						31-32		90-91	
						32-33		91-92	
						33-34		92-93	
	10' of 2" PVC					34-35		93-94	
						35 36		94-95	
	screen					36-37		95 96	
						37-38		96-97	
	12' of 2" PVC					38-39		97-98	
						39-40		98-99	
	pipe					40 41		99-100	
						41-42		100-101	
	25 lbs Pure					42-43		101-102	
						43-44		102 103	
	pellet					44-45		103-104	
						45 46		104 105	
						46 47		105 106	
	7 bags sand					47 48		106 107	
						48 49		107 108	
						49 50		108 109	
	4" Augers used					50-51		109 110	
						51 52		110-111	
						52-53		111 112	

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 24890
Atlas Sheet Coordinates 29 : 13 : 823

OWNER IDENTIFICATION - Owner FORT MONMOUTH
Address ~~SELFRIDGE BUILDING 167~~
City ~~FORT MONMOUTH~~ State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MCDC-1
County Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 6/19/90
Regulatory Program Requiring Well N/A Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tom Patania Tele. # 757-2255

WELL CONSTRUCTION

Total depth drilled 10 ft.
Well finished to N/A ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: N/A above grade
N/A flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)			N/A	
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout	0	10		Neat Cement
Method of Grouting	pressure			

Static water level after drilling ____ ft.
Water level was measured using Tape
Well was developed for N/A hours at N/A gpm
Method of development N/A
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Auger
Drilling Fluid N/A Type of Rig Mobil B-47
Name of Driller Gary Parent
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. B0082 ~~GARY PARENT~~
Name of Drilling Company

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6"	Topsoil
6"-4'	Greenish brown to light gray SAND
4'-8'	Greenish Black Fine SAND
8'-10'	Red brown Med SAND

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 8-2-90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 24891
Atlas Sheet Coordinates 29 : 13 : 823

OWNER IDENTIFICATION - Owner FORT MONMOUTH
Address ~~SELFM-EH-E~~ BUILDING 167
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MCDC - 2
County Municipality ~~EATONTOWN BORO~~ Lot No. ~~N/A~~ Block No. ~~N/A~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~BORING~~ Date well completed 6/19/90
Regulatory Program Requiring Well N/A Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) N/A Tele. #

WELL CONSTRUCTION

Total depth drilled 10 ft.
Well finished to N/A ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☒ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)		N/A		
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

Static water level after drilling 2.5 ft.
Water level was measured using Tape
Well was developed for N/A hours at N/A gpm
Method of development N/A
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Auger
Drilling Fluid N/A Type of Rig B-47
Name of Driller Gary Parent
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. B0082
Name of Drilling Company ~~GARY PARENT~~

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6"	Top soil
6"-10'	Greenish brown to greenish black very fine sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 8-2-90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 24892
Atlas Sheet Coordinates 29 : 13 : 823

OWNER IDENTIFICATION - Owner FORT MONMOUTH
Address ~~SELFM-EH-E~~ BUILDING 167
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MCDC-3
County Municipality ~~EATONTOWN BORO~~ Lot No. ~~N/A~~ Block No. ~~N/A~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~BORING~~ Date well completed / /
Regulatory Program Requiring Well N/A Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 10 ft.
Well finished to N/A ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☒ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No
Static water level after drilling 5' 1" ft.
Water level was measured using Tape
Well was developed for N/A hours at N/A gpm
Method of development N/A
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Auger
Drilling Fluid N/A Type of Rig Auger
Name of Driller Gary
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. B0082
Name of Drilling Company GARY PARENT

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)		NA		
Tail Piece				
Gravel Pack				
Annular Seal/Grout	0	10		Neat Cement
Method of Grouting	pressure			

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6"	Top soil
6"-8'	Brown + olive green Sandy clay
	12" SS [illegible]
8'-10'	Brown Fine SAND

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 8-2-90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 0992

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

E

MONITORING WELL RECORD

Well Permit No. 29 24893
Atlas Sheet Coordinates ~~29~~ : ~~13~~ : ~~823~~

OWNER IDENTIFICATION - Owner FORT MONMOUTH
Address ~~SELFM-EH-E BUILDING 167~~
City ~~FORT MONMOUTH~~ State ~~NJ~~ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MCDC-4
County Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 6.19.90
Regulatory Program Requiring Well N/A Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 10 ft.
Well finished to N/A ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☒ N/A above grade
☒ N/A flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)			N/A	
Tail Piece				
Gravel Pack				
Annular Seal/Grout	0	10		Neat Cement
Method of Grouting	pressure			

Static water level after drilling 4.5 ft.
Water level was measured using Tape
Well was developed for N/A hours at N/A gpm
Method of development N/A
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Auger
Drilling Fluid N/A Type of Rig B-47
Name of Driller Gary
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 30082 GARY PARENT
Name of Drilling Company

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6"	Top Soil
6"-2'	Greenish brown fine SAND
2'-10'	Black fine clayey SAND

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 8-2-90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

E

MONITORING WELL RECORD

Well Permit No. 29 24894
Atlas Sheet Coordinates 29 : 13 : 823

OWNER IDENTIFICATION - Owner FORT MONMOUTH
Address SELFM-EH-E BUILDING 167
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MCDC-5
County Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 6/19/90
Regulatory Program Requiring Well N/A Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 30 ft.
Well finished to N/A ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: N/A above grade
N/A flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)			N/A	
Tail Piece				
Gravel Pack				
Annular Seal/Grout	0	30		Neat Cement
Method of Grouting	pressure			

Static water level after drilling 98'' ft.
Water level was measured using Tape
Well was developed for N/A hours at N/A gpm
Method of development N/A
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Auger
Drilling Fluid N/A Type of Rig B-47
Name of Driller Gary
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. B0082
Name of Drilling Company GARY PARENT

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6''	TOPSOIL
6''-8'	Orange brown Fine SAND
8-12	Black very Fine Sand
12-30	Greenish black very Fine SAND

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 8/2/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 -24895
Atlas Sheet Coordinates 29 : 13 : 823

OWNER IDENTIFICATION - Owner FORT MONMOUTH
Address SELFM-EH-E BUILDING 167
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MCDC-6
County Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 7/20/90
Regulatory Program Requiring Well N/A Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 30 ft.
Well finished to N/A ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☒ N/A above grade
☒ N/A flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No
Static water level after drilling 60' " ft.
Water level was measured using Tape
Well was developed for N/A hours at N/A gpm
Method of development N/A
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Auger
Drilling Fluid N/A Type of Rig B-47
Name of Driller Gary
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. B0082
Name of Drilling Company GARY PARENT

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)		N/A		
Tail Piece				
Gravel Pack				
Annular Seal/Grout				
Method of Grouting				

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6'	Brown + Olive green Fine clayey Sand
6'-24'	Black Fine silty sand
24'-30'	Greenish black silty SAND

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 8/2/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 24896
Atlas Sheet Coordinates 29 : 13 : 823

OWNER IDENTIFICATION - Owner FORT MONMOUTH
Address ~~SELFM-EH-E~~ BUILDING 167
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MCDC-7
County Municipality ~~EATONTOWN BORO~~ Lot No. ~~N/A~~ Block No. ~~N/A~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~BORING~~ Date well completed 6/20/90
Regulatory Program Requiring Well N/A Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 30 ft.
Well finished to N/A ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: [N/A] above grade
[N/A] flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? [ ] Yes [X] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)			N/A	
Tail Piece				
Gravel Pack				
Annular Seal/Grout	0	30		Neat Cement
Method of Grouting	pressure			

Static water level after drilling 4.2 ft.
Water level was measured using Tape
Well was developed for N/A hours at N/A gpm
Method of development N/A
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Auger
Drilling Fluid N/A Type of Rig B-47
Name of Driller Gary
Health and Safety Plan submitted? [ ] Yes [X] No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. B0082
Name of Drilling Company GARY PARENT

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-1'	Topsoil
1'-7'	olive green Fine SAND
7'-26'	Black very Fine silty SAND
26-30	Greenish black Fine SAND

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 8/2/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. ~~27~~ - ~~24877~~
Atlas Sheet Coordinates ~~27~~ : ~~13~~ : ~~823~~

OWNER IDENTIFICATION - Owner ~~FORT MONMOUTH~~
Address ~~BELAM-EI-E BUILDING 167~~
City ~~FORT MONMOUTH~~ State ~~NJ~~ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MCDC-8
County Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 10/12/90
Regulatory Program Requiring Well BORING N/A Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) TOM Tele. # 757-2255

WELL CONSTRUCTION

Total depth drilled 30 ft.
Well finished to N/A ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☒ N/A above grade
☐ N/A flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)		N/A		
Tail Piece				
Gravel Pack				
Annular Seal/Grout	0	30		Neat Cement.
Method of Grouting	Pressure.			

Static water level after drilling 7'0" ft.
Water level was measured using Tape.
Well was developed for N/A hours at N/A gpm
Method of development N/A
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Augar.
Drilling Fluid N/A Type of Rig B-47
Name of Driller Gary
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. B 0062
Name of Drilling Company GARY PARENT

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-8"	Top Soil
8"-4'	Olive Green fine SAND.
4'-5'	Brown & olive Green fine Clayey SAND.
5'-28'	Black very fine Silty SAND.
28'-30'	Greenish Black fine SAND.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent J1540 Date 11/27/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

E

MONITORING WELL RECORD

Well Permit No. 29 . 24898
Atlas Sheet Coordinates 29 : 13 : 823

OWNER IDENTIFICATION - Owner FORT MONMOUTH
Address ~~SELFM-EH-E~~ BUILDING 167
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MCDC-9
County Monmouth Municipality EATONTOWN BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 10/12/90
Regulatory Program Requiring Well N/A Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tom Tele. # 757-2255

WELL CONSTRUCTION

Total depth drilled 30 ft.
Well finished to N/A ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: N/A above grade
N/A flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)		N/A		
Tail Piece				
Gravel Pack				
Annular Seal/Grout	0	30		Neat Cement
Method of Grouting	Pressure.			

Static water level after drilling 6' 1" ft.
Water level was measured using Tape
Well was developed for N/A hours at N/A gpm
Method of development N/A
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Augar
Drilling Fluid N/A Type of Rig B-47
Name of Driller
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. B 0082 GARY PARENT
Name of Drilling Company

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-1'	Top Soil
1-7'6"	Brown & olive green fine clayey SAND.
7'6"-26'	Black very fine Silty SAND.
26'-30'	Greenish Black fine SAND.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent J1540 Date 11/27/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 24899
Atlas Sheet Coordinates 29 : 13 : 823

OWNER IDENTIFICATION - Owner FORT MONMOUTH
Address ~~SELFM-EH-E~~ BUILDING 167
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MCDC-10.
County Monmouth Municipality ~~EATONTOWN BORO~~ Lot No. ~~N/A~~ Block No. ~~N/A~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~BORING~~ Date well completed 10/12/90
Regulatory Program Requiring Well N/A Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tom Patania Tele. # 757-2255

WELL CONSTRUCTION

Total depth drilled 30 ft.
Well finished to N/A ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☒ N/A above grade
☒ N/A flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece		N/A		
Gravel Pack				
Annular Seal/Grout	0	30		Neat Cement.
Method of Grouting	Pressure.			

Static water level after drilling 11' 1" ft.
Water level was measured using Tape.
Well was developed for N/A hours at N/A gpm
Method of development N/A
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Augar
Drilling Fluid N/A Type of Rig B-47
Name of Driller Gary
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. B 0082
Name of Drilling Company ~~GARY PARENT~~

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-2'	Olive Green fine SAND
2-7'6"	Brown & olive green fine clayey SAND.
7'6"-24	Black very fine Silty SAND.
24'-30'	Greenish Black fine SAND.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent J1540 Date 11/27/90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 0999

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 25352
Atlas Sheet Coordinates 29 : 13 : 819

OWNER IDENTIFICATION - Owner STRAVOLA REALTY
Address
City RED BANK State NJ Zip Code 07701

WELL LOCATION - If not the same as owner please give address. Owner's Well No. W-3C
County Monmouth Municipality TINTON FALLS BO Lot No. 7.01 Block No. 115
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 10/15/90
Regulatory Program Requiring Well MONITORING Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) N/A Tele. # N/A

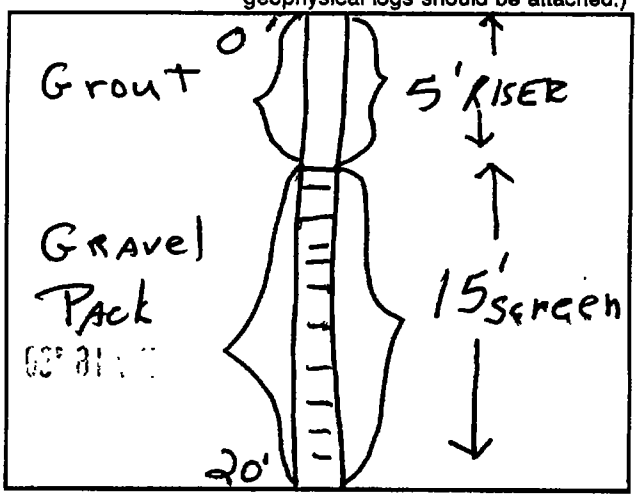
WELL CONSTRUCTION

Total depth drilled 20' ft.
Well finished to 20' ft.
Borehole diameter:
Top 8" in.
Bottom 8" in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface — ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	5'	4"	Sch. 40 PVC
Outer Casing (Not Protective Casing)	N/A	—		
Screen (Note slot size)	5'	20'	4"	.020 SLOT
Tail Piece	N/A	—		
Gravel Pack	5'	20'	4"	#2 Morie Sand
Annular Seal/Grout	0'	5'		Bentonite
Method of Grouting	Tremie			

Static water level after drilling NONE ft.
Water level was measured using —
Well was developed for — hours at — gpm
Method of development —
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity — gpm
Pump type: —
Drilling Method Auger
Drilling Fluid Type of Rig MOBIL 61
Name of Driller V. Gandolfo
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1109
Name of Drilling Company WARREN GEORGE INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Vincent Gandolfo Date 10-19-90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

N. Y. TEL. 267-3215

Permit# 2925352

WARREN GEORGE, INC.

FOOT OF JERSEY AVENUE
P. O. BOX 413
JERSEY CITY, N.J. 07303

N. J. TEL. (201) 433-9797

29.13.819
29-25352

Coord# 29.13.819

TEST BORINGS

Permit # 2925352-1

Project Schuyler Center; Rt 18, Tinton Falls, N.J.

Boring No. W-3C Job No. _____ Rig No. _____ Date 10/15/90 19 _____

BORING LOG		SPOON SAMPLE AND CORE DATA				BLOWS ON CASING			
DEPTH FROM TO	DESCRIPTION OF MATERIAL	SAMPLE NUMBER	DEPTH FROM - TO	BLOWS PER FT. / CORE RECOV'D. INCHES	D=DRY U=UNDISTURBED T=TRAP W=WASH R=ROD C=CORE / CORE RECOV'D. NO. PCS. Remarks *	0--1		59-60	
	ABANDONED W-3+B					1 -2		60-61	
	REDRILLED WELL				NO SAMPLE TAKEN.	2--3		61-62	
	3-C					3--4		62 63	
						4--5		63-64	
						5--6		64-65	
						6--7		65 66	
						7--8		66-67	
						8--9		67 68	
						9-10		68-69	
						10-11		69 70	
						11-12		70 71	
						12-13		71-72	
0 / 20'	Brown M-F SAND					13-14		72-73	
	some SILT.					14-15		73 74	
						15-16		74 75	
						16 17		75 76	
						17-18		76-77	
	LOG					18-19		77-78	
	C 21'					19-20		78-79	
						20-21		79-80	
+2 / 5'	2" PVC RISER					21-22		80-81	
						22-23		81-82	
						23-24		82-83	
						24-25		83-84	
5' / 20	15' 2" PVC					25-26		84-85	
	SCREEN.					26-27		85-86	
						27-28		86-87	
						28-29		87-88	
6	BAGS SAND.					29-30		88-89	
1	ABOVE GROUND					30-31		89-90	
						31-32		90-91	
						32-33		91-92	
	PROTECTIVE PIPE					33-34		92-93	
						34-35		93-94	
1	QUART PELLETS					35 36		94-95	
						36-37		95 96	
2	BAGS CEMENT					37-38		96-97	
						38-39		97-98	
						39-40		98-99	
						40 41		99-100	
1	hr development					41-42		100-101	
	time.					42-43		101-102	
						43-44		102 103	
						44-45		103-104	
	NOTE: W-2					45 46		104 105	
	RECONDITIONED					46 47		105 106	
						47 48		106 107	
						48 49		107 108	
	PROTECTIVE PIPE.					49 50		108 109	
						50-51		109 110	
						51 52		110-111	
						52 53		111 112	
						53 54		112 113	
						54-55		113 114	
						55-56		114 115	
						56 57		115 116	
						57 58		116 117	
						58 59		117 118	

GROUND WATER

DEPTH	HOUR	DATE
8		

Drive Hammer 140 Lbs.
Spoon Hammer _____ Lbs.
Casing Size 6 Inch
Spoon Size _____ Inch
Size of Core Bit _____ Inch

* Under Remarks mention kind of bit, loss of sample, loss of drilling water, soft, seamy or broken rock, caving, cavities unusual ground water conditions, etc., at depth encountered.

ADDITIONAL REMARKS _____

DRILLER [illegible]
HELPER [illegible]
HELPER _____

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 25775
Atlas Sheet Coordinates 29 : 13 : 852

OWNER IDENTIFICATION - Owner BOWE, DAVID
Address 100 CRESCENT COURT, SUITE 1600
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 7 Drive Point
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 2/17/91
Regulatory Program Requiring Well ECRA Case I.D. # 88990 & 88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 587-0300

WELL CONSTRUCTION

Total depth drilled 12' ft.
Well finished to 12' ft.
Borehole diameter:
Top 2 1/4 in.
Bottom 2 1/4 in.
Well was finished: ☐ above grade ☑ flush mounted
If finished above grade, casing height (stick up) above land surface 0 ft.
Was steel protective casing installed? ☐ Yes ☑ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0'	2'	2"	Galvaized steel
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2	12'	2"	S.S. cont. wrap .020
Tail Piece				
Gravel Pack				
Annular Seal/Grout	0'	1'		Bentonite cement
Method of Grouting	Tremie			

Static water level after drilling 4' ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 1/2 gpm
Method of development Bailed
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Drive
Drilling Fluid Type of Rig Jack Hammer
Name of Driller Michael Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company GT DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-12' Sand med. Tan.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael Kavlunas Date 3/29/91

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 26312
Atlas Sheet Coordinates 29 : 13 : 852

OWNER IDENTIFICATION - Owner BOWE, DAVID E.
Address 100 CRESCENT COURT
City DALLAS State TX Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 8
County Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6/10/91
Regulatory Program Requiring Well ECRA Case I.D. # 88990&88A14
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) GTI Tele. # 5870300

WELL CONSTRUCTION

Total depth drilled ft. Note: Drive Point
Well finished to 8' ft.
Borehole diameter:
Top 2" in.
Bottom 2" in.
Well was finished: ☐ above grade ☑ flush mounted
If finished above grade, casing height (stick up) above land surface 0 ft.
Was steel protective casing installed? ☐ Yes ☑ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	0'	8'	2"	Stainless Steel .020
Tail Piece				
Gravel Pack				
Annular Seal/Grout	0'	6"		Cement + Bent
Method of Grouting				

Static water level after drilling 4' ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 1 gpm
Method of development Bailed
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Driven
Drilling Fluid Type of Rig Jackhammer
Name of Driller Michael J Kavlunas
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. MD1328
Name of Drilling Company GT DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-4" Cement
4'-8" Med. Tan Sand some silt.

10" TS mat.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael J Kavlunas Date 6/11/91

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 26590
Atlas Sheet Coordinates 29 :13 :855

OWNER IDENTIFICATION - Owner MID ATLANTIC INDUSTRIAL
Address 2 INDUSTRIAL WAY WEST
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW# 1
County Monmouth Municipality ~~EATONTOWN BORO~~ Lot No. ~~64.01~~ Block No. ~~111~~
Address 556 industrial Way West

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 7 / 19 / 91
Regulatory Program Requiring Well Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Accutech Tele. # 739-6444

WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? [ ] Yes [X] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+ 3	2	4	Sch.40 PVC
Outer Casing (Not Protective Casing)	none			
Screen (Note slot size)	2	12	4	Sch.40PVC/020slot
Tail Piece	none			
Gravel Pack	1.5	12		#2 well gravel
Annular Seal/Grout	0	1.5		Bentinite/cement
Method of Grouting	Gravity Placment			

Static water level after drilling 6 ft.
Water level was measured using steel tape
Well was developed for ½ hours at 2 gpm
Method of development centrifugal pump
Was permanent pumping equipment installed? [X] Yes [ ] No
Pump capacity n/a gpm
Pump type: n/a
Drilling Method Hollow stem auger
Drilling Fluid none Type of Rig D-50
Name of Driller Allen WIlson
Health and Safety Plan submitted? [X] Yes [ ] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1278
Name of Drilling Company WILSON DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-4' brown & .. gray sand
4'-12' green sand
water level @ 6ft.

JUL 30 '91

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Allen J. Wilson Date 7/24/91

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1205

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 26591
Atlas Sheet Coordinates 29 : 13 : 855

OWNER IDENTIFICATION - Owner MID ATLANTIC INDUSTRIAL
Address 2 INDUSTRIAL WAY WEST
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW #2
County Monmouth Municipality EATONTOWN BORO Lot No. 04.01 Block No. 111
Address 556 Industrial Way West

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7 / 19 / 91
Regulatory Program Requiring Well Case I.D. #

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Accutech Tele. # 739-6444

WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: [x] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? [ ] Yes [x] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+3	2	4	Sch.40 PVC
Outer Casing (Not Protective Casing)	none			
Screen (Note slot size)	2	12	4	Sch.40PVC.020slot
Tail Piece	none			
Gravel Pack	1.5	12		#2 well gravel
Annular Seal/Grout	0	1.5		Bent./cement
Method of Grouting	Gravity Placement			

Static water level after drilling 6 ft.
Water level was measured using steel tape
Well was developed for ½ hours at 2 gpm
Method of development centrifugal pump
Was permanent pumping equipment installed? [x] Yes [ ] No
Pump capacity n/a gpm
Pump type: n/a
Drilling Method Hollow stem auger
Drilling Fluid none Type of Rig D-50
Name of Driller Allen Wilson
Health and Safety Plan submitted? [x] Yes [ ] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1278
Name of Drilling Company WILSON DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-4' brown & gray sand
4'-12' green sand
water level at 6 ft.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Allen J. Wilson Date 7/24/91

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 26592
Atlas Sheet Coordinates 29 : 13 : 855

OWNER IDENTIFICATION - Owner MID ATLANTIC INDUSTRIAL
Address 2 INDUSTRIAL WAY WEST
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW #3
County Monmouth Municipality ~~EATONTOWN BORO~~ Lot No. ~~64.01~~ Block No. ~~111~~
Address 556 Industrial way west

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 7 /19 / 91
Regulatory Program Requiring Well Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Accutech Tele. # 739-6444

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? [ ] Yes [X] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+3	5	4	Sch. 40 PVC
Outer Casing (Not Protective Casing)	none			
Screen (Note slot size)	5	15	4	Sch.40PVC.020slot
Tail Piece	none			
Gravel Pack	4.5	15		#2 well gravel
Annular Seal/Grout	0	4.5		bent./cement
Method of Grouting	Gravity Placement			

Static water level after drilling 8 ft.
Water level was measured using steel tape
Well was developed for ½ hours at 2 gpm
Method of development centrifugal pump
Was permanent pumping equipment installed? [X] Yes [ ] No
Pump capacity n/a gpm
Pump type: n/a
Drilling Method hollow stem auger
Drilling Fluid none Type of Rig D-50
Name of Driller Allen Wilson
Health and Safety Plan submitted? [X] Yes [ ] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1278
Name of Drilling Company WILSON DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-4' brown & gray sand
4'-15' green sand
water level at 8 ft.

10 OE 10

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Allen J. Wilson Date 7/24/91

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 – 26724
Atlas Sheet Coordinates 29 : 13 : 859

OWNER IDENTIFICATION - Owner ~~WHIG TOWER CORPORATION~~
Address ~~1129 HOPE ROAD~~
City ~~ASBURY PARK~~ State ~~NJ~~ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address 11299 Hope Road Asbury Park, NJ
County Monmouth Municipality ~~TINTON FALLS BO~~ Lot No. ~~5.02~~ Block No. ~~115~~

WELL USE Withdrawal Status In Use

WATER USE Domestic Average 2000 gals. daily Maximum 4000 gals. daily

WELL CONSTRUCTION Date well completed 09 / 16 / 91
BOREHOLE DIMENSIONS Depths: Total 87 ft. Finished Same ft.
Diameter: Top 8.5" in. Bottom Same in.
Land Surface Elevation at well 90 ft. Elevation was determined using Topographic Map
Casing Height (stick-up) above land surface 1.5' ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL *Screens: Note Slot Size(s)*
Casing 1		72	4.0"	Schedule 40 PVC
Casing 2				
Casing 3				
Screen 1	71	10	4	Schedule 40 PVC/.020
Screen 2				
Tail Piece		5'	4"	
Gravel Pack	61	25'	8.5"	.025 Blended
Grout	Surface	61		200 mesh Bentonite

Grouting Method Pressure, Thru Tremie Pipe

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date 09 / 16 / 91
Static water-level before pumping 17 ft. below land surface. Water level 61 ft. below land surface after 1 hrs. of pumping.
Water level was measured using Estimated Drawdown 44 ~~40~~ ft.
Discharge rate measured using ~~Measured Container~~ Discharge Rate _____ gals. per min.
Well was pumped using Air Lift Specific Capacity 0.9 gals. per min. per ft. of drawdown
Observed effects on nearby wells None
Water Quality (taste, odor, color, etc.) Good

PERMANENT PUMPING EQUIPMENT Installed by PUMP NOT INSTALLED AS AT DATE OF THIS REPORT Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor ~~PICKWICK WELL DRILLING~~
Address ~~P.O. Box 6, Farmingdale, NJ 07727 (908) 938 5300~~
City ~~David Primost M1041~~ State Zip Code
Name of Driller ~~Norman Primost J1040~~ License No.
Allen Primost J1407

Signature of Contractor Norman Primost #1040 Date 10 / 24 / 91

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.
10/24/91 10/24/91

WELREC 107 1244

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 29 - 26724
29 13 859

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☐ Yes ☒ No

Drilling Method MUD ROTARY

Type of Rig T. H. DRIVE

Aquifer/Geo. Fm. VINCENTOWN

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ___ / ___ / ___

LOG

	Thick.	Lith.	Fm.
0-15 Med Green Sand/Some Green Silt			
15-35 Med. & Coarse Green Sand			
35-45 Med. Tanish-Brown Sand			
45-55 Med. & Coarse Green Sand			
55-65 Med Green Sand/Shells			
65-87 Med. & Fine Gray Green Sand/Shells			

GWPI No. ___ - _____

NJPDES No. _____ - ___

Latitude ___ ° ___ ' ___ "

Longitude ___ ° ___ ' ___ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date 10 25 / ___ / ___

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

E

MONITORING WELL RECORD

Well Permit No. 29 - 27443
Atlas Sheet Coordinates ~~29~~ : ~~13~~ : 818

OWNER IDENTIFICATION - Owner MONMOUTH CO., NEW JERSEY
Address KOZLOSKI ROAD & CENTER ST.
City FREEHOLD State NJ Zip Code 07728

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW1
County _____ Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address Mosquito Commission 143A Wayside Road

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/22/92
Regulatory Program Requiring Well UST Case I.D. # _____
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) KILLAM ASSOCIATES Tele. # (201) 379-3400

WELL CONSTRUCTION
Total depth drilled 17'6" ft.
Well finished to 17'0" ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface _____ ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	7	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	7	17	4	.020 PVC
Tail Piece				
Gravel Pack	5	17'6"	10	#2
Annular Seal/Grout	0	5	10	1' Bentonite 4' Concrete
Method of Grouting	PRESSURE GROUT			

Static water level after drilling 11'4" ft.
Water level was measured using TAPE
Well was developed for 1 hours at 5 gpm
Method of development SUBMERSIBLE
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity 5 gpm
Pump type: GOULD PUMP
Drilling Method Hollow Stem Auger
Drilling Fluid None Type of Rig Mobile Drill B-47
Name of Driller Wayne Lipscomb
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1217
Name of Drilling Company KEY-TECH

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

SEE ATTACHED LOGS

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Wayne Jeremy Jr. Date 4/14/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

Coord#: 29.13.818 Permit 2227443

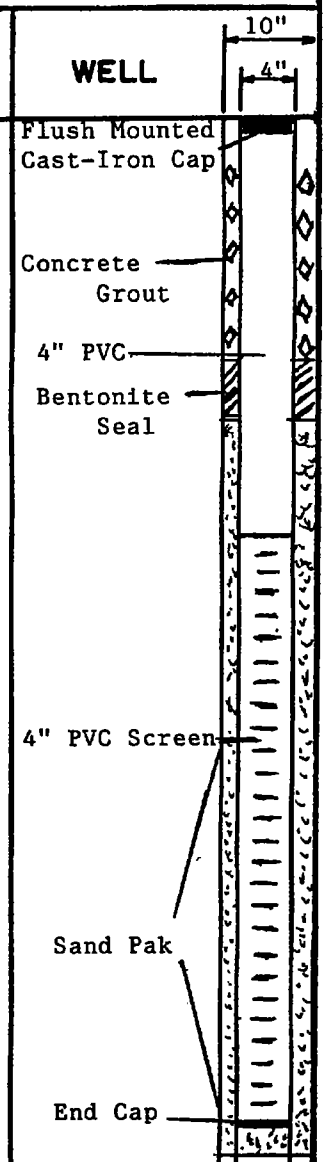
KEY - TECH	WELL INSTALLATION LOG	WELL NO: MW-1

PROJECT MOSQUITO COMMISSION, WAYSIDE RD., TINTON FALLS, NJ	SHEET NO.: 1 OF 1
CLIENT KILLAM ASSOCIATES, MILLBURN, NJ 29.13.818	JOB NO.: 92-05
BORING CONTRACTOR KEY - TECH 29-27443	ELEVATION:
GROUND WATER	DATUM:
DATE START: 1-22-92	
DATE FINISHED: 1-22-92	
DRILLER: Ron	
REP. Al	

DATE	TIME	DEPTH	CASING		CAS.	SAMP.	CORE	TUBE
				TYPE	HSA	SS		
1-22-92	10:00	11'4"	In	DIA.	3¼"	2"		
				WT.		140#		
				FALL		30"		

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	* STRATIGRAPHY	REMARKS
1		S-1	9, 10, 4, 4		Olive yellow fine SAND 0'0" - 2'0"	
3		S-2	4, 4, 5, 5		do 2'0" - 4'0"	
5		S-3	6, 5, 6, 6		do 4'0" - 6'0"	
7		S-4	5, 4, 4, 5		Light olive/yellow fine SAND 6'0" - 8'0"	
9		S-5	4, 5, 5, 4		Brownish yellow fine SAND 8'0" - 10'0"	
11		S-6	3, 4, 4, 4		Olive yellow fine SAND 10'0" - 12'0"	
13		S-7	3, 4, 4, 5		do 12'0" - 14'0"	
15			A			
16			F			
17			S			
18					BORING COMPLETE @ 17'6"	Well Set @ 17'0"
19					* Soil identifications are by drillers visual examination of soil samples obtained during test boring procedures.	
20						
21						
22						
23						

WELL



DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

E

MONITORING WELL RECORD

Well Permit No. 29 - 27444
Atlas Sheet Coordinates 29 : 13 : 818

OWNER IDENTIFICATION - Owner MONMOUTH CO., NEW JERSEY
Address KOZLOSKI ROAD & CENTER ST.
City FREEHOLD State NJ Zip Code 07728

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 2
County _____ Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.01~~ Block No. ~~97~~
Address 143A Wayside Road - Mosquito Commission

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 1/22/92
Regulatory Program Requiring Well UST Case I.D. # _____
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) KILLAM ASSOCIATES Tele. #(201) 379-3400

WELL CONSTRUCTION

Total depth drilled 17.5 ft.
Well finished to 17 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface _____ ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	7	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	7	17	4	.020 PVC
Tail Piece				
Gravel Pack	5	17'6"	10	#2
Annular Seal/Grout	0	5	10	1' Bentonite 4' Concrete Grout
Method of Grouting	PRESSURE GROUT			

Static water level after drilling 11'6" ft.
Water level was measured using tape
Well was developed for 1 hours at 5 gpm
Method of development SUBMERSIBLE
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity 5 gpm
Pump type: GOULD Pump
Drilling Method Hollow Stem Auger
Drilling Fluid None Type of Rig Mobile Drill B47
Name of Driller Wayne Lipscomb
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1217
Name of Drilling Company KEY-TECH

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

SEE ATTACHED LOGS

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Wayne Lipscomb Date 4/14/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

Coord #: 29.13.818 Permit 2927444

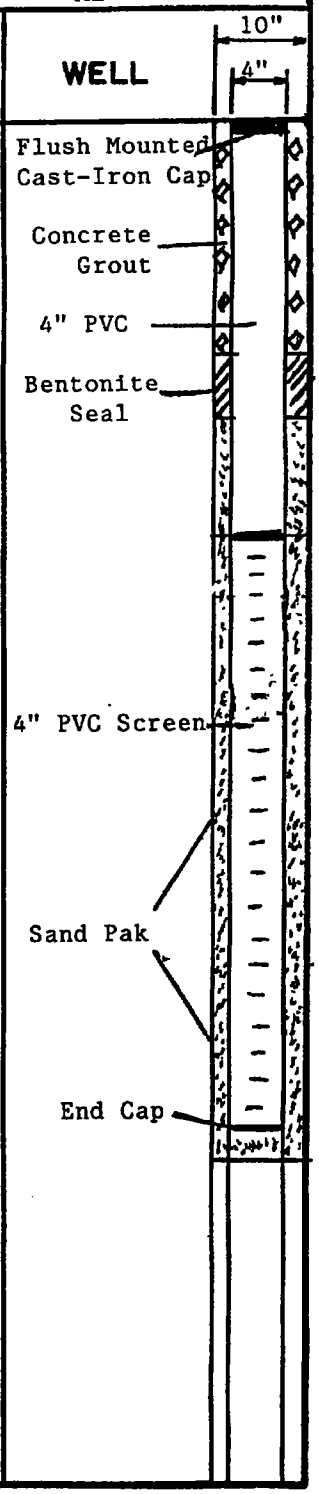
KEY - TECH	WELL INSTALLATION LOG	WELL NO: MW-2

PROJECT MOSQUITO COMMISSION, WAYSIDE RD., TINTON FALLS, NJ	SHEET NO.: 1 OF 1
CLIENT KILLAM ASSOCIATES, MILLBURN, NJ 29.13.818	JOB NO.: 92-05
BORING CONTRACTOR KEY - TECH 2927444	ELEVATION:
	DATUM:
	DATE START: 1-22-92
	DATE FINISHED: 1-22-92
	DRILLER: Ron
	REP. Al

GROUND WATER					CAS.	SAMP.	CORE	TUBE
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS		
1-22-92	2:00	11'6"	In	DIA.	3½"	2"		
				WT.		140#		
				FALL		30"		

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	* STRATIGRAPHY	REMARKS
1			A			
2			F		Olive yellow fine SAND	
3			S			
4					0'0" - 4'0"	
5		S-1	4, 3, 3		Olive brown fine SAND with little Gravel	
6			2		4'0" - 6'0"	
7			A		Light olive yellow fine SAND	
8			F			
9			S		6'0" - 9'0"	
10		S-2	4, 4, 4		Olive fine SAND	
11			4		9'0" - 11'0"	Water @11'6"
12						
13			A		do	
14			F			
15						
16			S			
17					11'0" - 17'0"	
18					Boring Complete @ 17'6"	Well Set @ 17'0"
19					* Soil identifications are by drillers visual examination of soil samples obtained during test boring procedures.	
20						
21						
22						
23						

WELL



DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 27453
Atlas Sheet Coordinates 29: 13: 818

OWNER IDENTIFICATION - Owner MONMOUTH COUNTY OF
Address KOZLOSKI ROAD & CENTER STREET
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-3
County Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address Mosquito Commission 143A Wayside Rd

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/23/92
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Killam Associates Tele. # 201 379 3400

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 17 1/2 ft.
Borehole diameter:
Top 10 in.
Bottom 10 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	7 1/2	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	7 1/2	17 1/2	4	.020 PVC
Tail Piece				
Gravel Pack	5 1/2	18	10	#2
Annular Seal/Grout	0	5 1/2	10	1' Bentonite 4 1/2' Portland
Method of Grouting	Pressure Grout			

Static water level after drilling 11'9" ft.
Water level was measured using tape
Well was developed for 1 hours at 5 gpm
Method of development Submersible
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity 5 gpm
Pump type: Gould
Drilling Method Hollow Stem Auger
Drilling Fluid None Type of Rig Mobile Drill B47
Name of Driller WAYNE LIPSCOMB
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1217
Name of Drilling Company KEY-TECH

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

See Attached Logs

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Wayne Lipscomb Date 4/14/92

COPIES: White & Green - DEPE Canary - Driller [redacted] Owner Goldenrod - Health Dept.

WELREC 107 0976

Coord. # 29.13.818 / Permit # 2927453

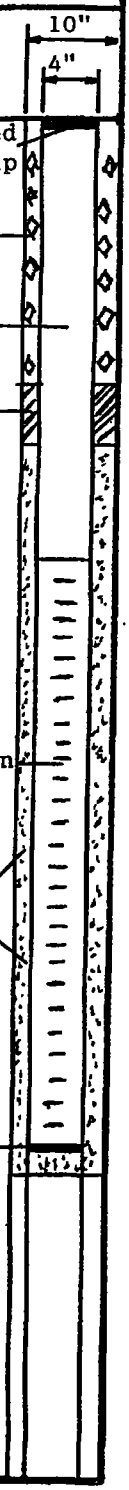
KEY - TECH	WELL INSTALLATION LOG	WELL NO: MW-3

PROJECT MOSQUITO COMMISSION, WAYSIDE RD., TINTON FALLS, NJ	SHEET NO.: 1 OF 1
CLIENT KILLAM ASSOCIATES, MILLBURN, NJ 29.13.818	JOB NO.: 92-05
BORING CONTRACTOR KEY - TECH 2927453	ELEVATION:
	DATUM:
	DATE START: 1-23-92
	DATE FINISHED: 1-23-92
	DRILLER: Ron
	REP. Al

GROUND WATER					CAS.	SAMP.	CORE	TUBE
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS		
1-23-92	10:30	11'9"	In	DIA.	3¼"	2"		
				WT.		140#		
				FALL		30"		

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	* STRATIGRAPHY	REMARKS
1						
			A			
2					Light olive brown fine SAND	
			F			
3						
			S			
4					0'0" - 4'0"	
			4			
5		S-1	3		Light olive brown fine SAND	
			3			
6			4		4'0" - 6'0"	
7			A			
8			F		do	
9			S		6'0" - 9'0"	
			3			
10		S-2	4		Olive yellow fine SAND	
			5			
11			4		9"0" - 11'0"	
12			A			
13						
			F		Light olive brown fine SAND	
14						
15						
			S			
16						
17						
18					11'0" - 18'0"	
19					TEST BORING COMPLETE @ 18'0"	Well Set @ 17'6"
20					* Soil identifications are by drillers visual examination of soil samples obtained during test boring procedure.	
21						
22						
23						

WELL



DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 27643
Atlas Sheet Coordinates 29 : 13 : 598

OWNER IDENTIFICATION - Owner ~~DONATO GROUP-MERIDAN CENT~~
Address 3 INDUSTRIAL WAY WEST
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. P-1
County Municipality EATONTOWN BORO Lot No. 6.07 Block No. 135
Address

TYPE OF WELL (as per Well Permit Categories) PIEZOMETER Date well completed 3/6/92
Regulatory Program Requiring Well Case I.D. #

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 24 ft.
Well finished to 24 ft.
Borehole diameter:
Top 9 in.
Bottom 9 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 1 ft.
Was steel protective casing installed? [ ] Yes [X] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	+1	14	2	PVC
Outer Casing (Not Protective Casing)	—	N/A	—	—
Screen (Note slot size)	14	24	2	PVC 0.010 slot
Tail Piece	—	N/A	—	—
Gravel Pack	12	24	-	#1 SAND
Annular Seal/Grout	10/0	12/10	-	Pellets/grout
Method of Grouting	Tremie			

Static water level after drilling 15.5 ft.
Water level was measured using wetted Tape
Well was developed for 0.5 hours at <1 gpm
Method of development Bailing
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method H.S.A.
Drilling Fluid N/A Type of Rig CME 550
Name of Driller Mathew Raab
Health and Safety Plan submitted? [X] Yes [ ] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1577
Name of Drilling Company EMPIRE SOILS INVESTIGATIONS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-4' = Brown - fine - med SAND

4'-22' = Brown green fine med SAND, trace silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Mathew Raab/AK Date 3/6/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 0504

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 27644
Atlas Sheet Coordinates 29 : 13 : 598

OWNER IDENTIFICATION - Owner ~~DONATO GROUP MERIDAN CENT~~
Address 3 INDUSTRIAL WAY WEST
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. P-2
County Municipality EATONTOWN BORO Lot No. 6.07 Block No. 135
Address

TYPE OF WELL (as per Well Permit Categories) Date well completed 3/7/92
Regulatory Program Requiring Well PIEZOMETER Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION
Total depth drilled 18 ft.
Well finished to 18 ft.
Borehole diameter:
Top 9 in.
Bottom 9 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2 ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+2	8	2	PVC
Outer Casing (Not Protective Casing)	—	N/A	—	—
Screen (Note slot size)	8	18	2	PVC 0.010 slot
Tail Piece	—	N/A	—	—
Gravel Pack	6	18	-	#1 SAND
Annular Seal/Grout	4/0	6/4	-	Pellets/Benseal
Method of Grouting	Gravity			

Static water level after drilling 9.5 ft.
Water level was measured using wetted tape
Well was developed for 0.5 hours at 1 gpm
Method of development Bailing
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid N/A Type of Rig CME-550
Name of Driller Mathew Raab
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1577
Name of Drilling Company EMPIRE SOILS INVESTIGATIONS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'-4' = Brown fine-med SAND

4'-18' = Brown-green fine-med SAND, trace

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Mathew Raab / AK Date 3/7/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 27645
Atlas Sheet Coordinates 29 : 13 : 598

OWNER IDENTIFICATION - Owner ~~DONATO GROUP-MERIDAN CENT~~
Address 3 INDUSTRIAL WAY WEST
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. P-3
County Municipality EATONTOWN BORO Lot No. 6.07 Block No. 135
Address

TYPE OF WELL (as per Well Permit Categories) PIEZOMETER Date well completed 3 / 6 / 92
Regulatory Program Requiring Well Case I.D. #

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 17 ft.
Well finished to 17 ft.
Borehole diameter:
Top 9 in.
Bottom 9 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 2 ft.
Was steel protective casing installed? [ ] Yes [X] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+2	7	2	PVC
Outer Casing (Not Protective Casing)	—	N/A	—	—
Screen (Note slot size)	7	17	2	PVC 0.010 slot
Tail Piece	—	N/A	—	—
Gravel Pack	5	17	-	#1 SAND
Annular Seal/Grout	3/0	5/3	-	Pellets/Benseal
Method of Grouting	Gravity			

Static water level after drilling 9 ft.
Water level was measured using Tape
Well was developed for 0.5 hours at 1 gpm
Method of development Bailing
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid N/A Type of Rig CME-550
Name of Driller Mathew Raab
Health and Safety Plan submitted? [X] Yes [ ] No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1577
Name of Drilling Company EMPIRE SOILS INVESTIGATIONS

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-2' = Brown fine-med SAND
2'-4' = Light Brown & green fine-med sand
4'-10' = Brown & Red fine med SAND
10'-17' = Green & Brown fine-med SAND

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Mathew Raab /AK Date 3/6/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

Let's protect our earth

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 27756
Atlas Sheet Coordinates 29 : 13 : 829

OWNER IDENTIFICATION - Owner COSTCO WHOLESALE CORP
Address 20 FAWN RIDGE
City MILLWOOD State NY Zip Code 10546

WELL LOCATION - If not the same as owner please give address. Owner's Well No. P-1
County Monmouth Municipality ~~TINTON FALLS BO~~ Lot No. ~~7.01~~ Block No. ~~115~~
Address Hope Road

TYPE OF WELL (as per Well Permit Categories) ~~PIEZOMETER~~ Date well completed 4/6/92
Regulatory Program Requiring Well N/A Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) EcolScience Inc. Tele. # 201-366-9500

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.
Borehole diameter:
Top 7 5/8 in.
Bottom 7 5/8 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	4	2	Sch 40 PVC
Outer Casing (Not Protective Casing)	N/A	N/A	N/A	N/A
Screen (Note slot size)	4	14	2	Sch40 pvc .020 slot
Tail Piece	N/A	N/A	N/A	N/A
Gravel Pack	3	14	7 5/8	#2 well gravel
Annular Seal/Grout	0	3	7 5/8	Cement/Bentonite
Method of Grouting	Tremi with pump			

Static water level after drilling 4 ft.
Water level was measured using Tape drop line
Well was developed for 1 hours at 5 gpm
Method of development TRASH pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Auger
Drilling Fluid N/A Type of Rig Acker AD II
Name of Driller Ronald Juckett
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J1474
Name of Drilling Company JERSEY BORING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0' to 14' yellow STY m/F SAND

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Ronald H Juckett Date 4/11/92

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

Let's protect our earth

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 - 27757 29 13 829
Atlas Sheet Coordinates _____ : _____ : _____

OWNER IDENTIFICATION - Owner COSTCO WHOLESALE CORP
Address 20 FAWN RIDGE
City MILLWOOD State NY Zip Code 10546

WELL LOCATION - If not the same as owner please give address TINTON FALLS BO Owner's Well No. P-2
County Monmouth Municipality _____ Lot No. 7.01 Block No. 115
Address Hope Road

TYPE OF WELL (as per Well Permit Categories) PIEZOMETER Date well completed 4/6/92
Regulatory Program Requiring Well ~~Ecologicance~~ ~~Fee~~ N/A Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Ecolsciense Inc. Tele. # 201-366-9500

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 7 5/8 in.
Bottom 7 5/8 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 2 ft.
Was steel protective casing installed? [X] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	5	2	Sch 40 pvc
Outer Casing (Not Protective Casing)	N/A	N/A	N/A	N/A
Screen (Note slot size)	5	15	2	Sch 40 pvc .020 slot
Tail Piece	N/A	N/A	N/A	N/A
Gravel Pack	5	15	7 5/8	#2 well gravel
Annular Seal/Grout	0	5	7 5/8	Cement/Bentonite
Method of Grouting	Tremi with pump			

Static water level after drilling _____ ft.
Water level was measured using Tape drop line
Well was developed for 1 hours at 5 gpm
Method of development TRASH pump
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Augu
Drilling Fluid N/A Type of Rig Acker AD II
Name of Driller Ronald Juckett
Health and Safety Plan submitted? [ ] Yes [X] No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J1474 JERSEY BORING
Name of Drilling Company _____

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0' to 15' yellow 5Ty m/F Sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Ronald Juckett Date 4/11/92

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 29 2775B
Atlas Sheet Coordinates 29 13 829

OWNER IDENTIFICATION - Owner COSTCO WHOLESALE CORP
Address 20 FAWN RIDGE
City MILLWOOD State NY Zip Code 10546

WELL LOCATION - If not the same as owner please give address. Owner's Well No. D-3
County Monmouth Municipality ~~TINTON FALLS BO~~ Lot No. ~~7.01~~ Block No. ~~115~~
Address Hope Rd

TYPE OF WELL (as per Well Permit Categories) ~~PIEZOMETER~~ Date well completed 4/6/92
Regulatory Program Requiring Well N/A Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) EcoScience Inc. Tele. # 201-366-9500

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 14 ft.
Borehole diameter:
Top 9 5/8 in.
Bottom 7 5/8 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	4	2	Sch 40 pvc
Outer Casing (Not Protective Casing)	N/A	N/A	N/A	N/A
Screen (Note slot size)	4	14	2	Sch 40 pvc .020 slot
Tail Piece	N/A	N/A	N/A	N/A
Gravel Pack	4	14	7 5/8	#2 well gravel
Annular Seal/Grout	0	4	7 5/8	Cement/Bentonite
Method of Grouting	Tremi with pump			

Static water level after drilling 4 ft.
Water level was measured using Tape dropline
Well was developed for 1 hours at 5 gpm
Method of development Trash pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method Auger
Drilling Fluid N/A Type of Rig Acker AD II
Name of Driller Ronald Tuckett
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J1474
Name of Drilling Company JERSEY BORING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0' to 14' yellow Sty M/F Sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Ronald H Tuckett Date 4/11/92

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

E

MONITORING WELL RECORD

Well Permit No. 29 -28781
Atlas Sheet Coordinates 29 : 13 : 842

OWNER IDENTIFICATION - Owner MONMOUTH COUNTY OF
Address KOZLOSKI RD. & CENTER ST.
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW1
County Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address Highway District #3/#6 Pine Brook Rd

TYPE OF WELL (as per Well Permit Categories) Date well completed 3/10/93
Regulatory Program Requiring Well MONITORING UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Killam Associates Tele. # 2013793400

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 17 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☒ Yes ☐ No Flush mount cast iron cap

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	7	4	Schedule 40 PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	7	17	4	.020 Schedule 40 PVC
Tail Piece				
Gravel Pack	5	18	12	#2 Sand
Annular Seal/Grout	0	5	12	6" Bentonite 4'6" Portland Neat cement
Method of Grouting	Gravity			

Static water level after drilling 11'1" ft.
Water level was measured using tape
Well was developed for 1 hours at 2.6 gpm
Method of development Backwash
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity 10 gpm
Pump type: submersible
Drilling Method Hollow Stem Auger
Drilling Fluid None Type of Rig Mobile Drill B47
Name of Driller Ronald Cook
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JA1603
Name of Drilling Company KEY-TECH

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

See Attached Logs

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Ronald Cook Date 3/22/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

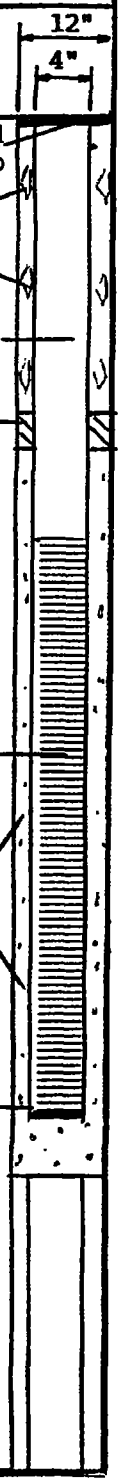
ATLAS COORD 29-13-842 PERMIT # 29-28781

KEY - TECH	WELL INSTALLATION LOG	WELL NO: MW-1
PROJECT HIGHWAY DISTRICT #3/#6, Pine Brook Rd., Tinton Falls		SHEET NO.: 1 OF 1
CLIENT KILLAM ASSOCIATES, MILLBURN, NEW JERSEY 29,13,842		JOB NO.: 93-14
BORING CONTRACTOR KEY-TECH 29-28781		ELEVATION:

GROUND WATER					CAS.	SAMP.	CORE	TUBE	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATE START: 3-10-93
3-10-93	10:00	11'1"	In	DIA.	3¼"	2"			DATE FINISHED: 3-10-93
				WT.		140#			DRILLER: R. Cook
				FALL		30"			REP. J. Gallagher

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	* STRATIGRAPHY	REMARKS
1		S-1	2, 1, 2, 2		Brown medium to fine SAND, some Gravel 0'0" - 2'0"	
3		S-2	2, 3, 2, 4		Orange brown medium to fine SAND 2'0" - 4'0"	
5		S-3	4, 4, 5, 5		do 4'0" - 6'0"	
7		S-4	4, 5, 4, 5		do 6'0" - 8'0"	
9		S-5	4, 5, 5, 5		Brown medium to fine SAND trace of Silt 8'0" - 10'0"	
11		S-6	5, 5, 5, 6		Brown medium to fine SAND 10'0" - 12'0"	
13		S-7	5, 4, 5, 5		do 12'0" - 14'0"	
15		S-8	3, 4, 5, 6		Orange brown medium to fine SAND 14'0" - 16'0"	
17		S-9	4, 4, 5, 6		do 16'0" - 18'0"	
19					TEST BORING COMPLETE @ 18'0"	
20					* Soil descriptions are by drillers visual examination of soil samples obtained during test boring procedures.	
21						
22						
23						

WELL



54

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

E

MONITORING WELL RECORD

Well Permit No. 29 -28782
Atlas Sheet Coordinates 29 : 13 : 842

OWNER IDENTIFICATION - Owner MONMOUTH COUNTY OF
Address KOZLOSKI RD. & CENTER ST.
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW2
County Monmouth Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address Highway District #3/6 Pine Brook Rd

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 4/30/93
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Killam Associates Tele. # 2013793400

WELL CONSTRUCTION
Total depth drilled 18 ft.
Well finished to 17 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☒ Yes ☐ No Cast iron cap

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	7	4	Schedule 40 PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	7	17	4	.020 Schedule 40 PVC
Tail Piece				
Gravel Pack	5 1/2	18	12	#2 well sand
Annular Seal/Grout	0	5 1/2	12	6" Bentonite Seal 5' Portland Neat Cement
Method of Grouting				

Static water level after drilling 7'2" ft.
Water level was measured using Tape
Well was developed for 1 hours at 4 gpm
Method of development Submersible pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity 10 gpm
Pump type: Gould
Drilling Method Hollow Stem Auger
Drilling Fluid None Type of Rig Mobile Drill B47
Name of Driller Ronald Cook
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J1603
Name of Drilling Company KEY-TECH

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

See Attached Logs

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Ronald Cook Date 5/20/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

Atlas Coord #29-13-842 Permit #29-28782

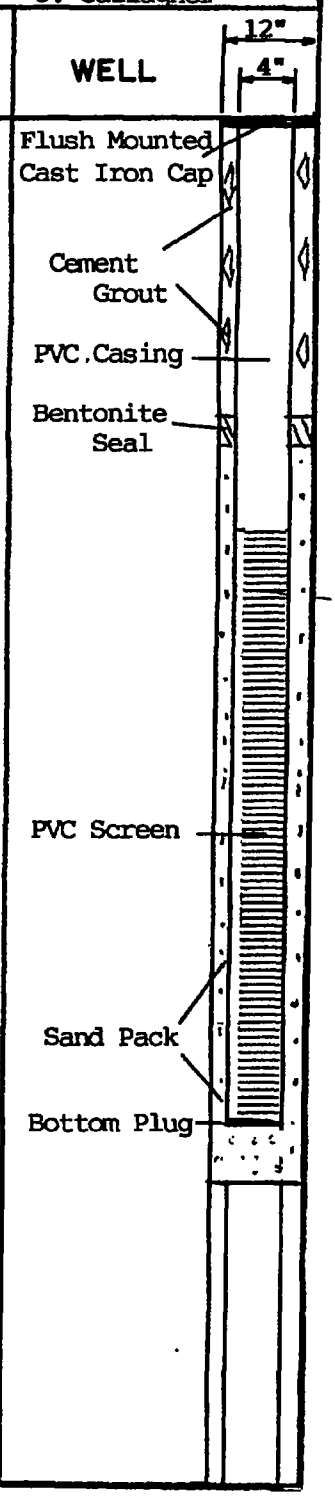
KEY - TECH	WELL INSTALLATION LOG	WELL NO: MW-2

PROJECT HIGHWAY DISTRICT #3/6, TINTON FALLS, MONMOUTH CO.	SHEET NO.: 1 OF 1
CLIENT KILLAM ASSOCIATES, 25 E. Willow St., Millburn, NJ	JOB NO.: 93-36
BORING CONTRACTOR KEY - TECH 29,13.842 29-28782	ELEVATION:
GROUND WATER	DATUM:
	DATE START: 4-30-93
	DATE FINISHED: 4-30-93
	DRILLER: R. Cook
	REP. J. Gallagher

DATE	TIME	DEPTH	CASING	TYPE	CAS.	SAMP.	CORE	TUBE
4-30-93	10:00	7'2"	In	DIA.	3¼	2"		
				WT.		140#		
				FALL		30"		

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	* STRATIGRAPHY	REMARKS
1						
2						
3						
4						
5						
6		S-1	4, 3, 3, 3		Olive brown medium to fine SAND 5'0" - 7'0"	
7						
8						
9						
10						
11		S-2	5, 6, 5, 5		do 10'0" - 12'0"	
12						
13						
14						
15						
16		S-3	3, 3, 4, 5		Olive brown fine SAND 15'0" - 17'0"	
17						
18					TEST BORING COMPLETE @ 17'0"	
19					* Soil descriptions are by drillers visual examination of soil samples obtained during test boring procedures.	
20						
21						
22						
23						

WELL



12/30/92 E

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 29189
Atlas Sheet Coordinates 29 13 859

OWNER IDENTIFICATION - Owner WHITG TOWER CORPORATION
Address 1129 HOPE ROAD
City ASBURY PARK State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality TINTON FALLS BO Lot No. 5.02 Block No. 115
Address
NOTE: THIS WELL IS CHANGE OF USE & DRILLED UNDER PERMIT # 29-26724
TYPE OF WELL (as per Well Permit Categories) Date well completed 02/03/93
Regulatory Program Requiring Well CATHODIC PROTECTION Case I.D. # N/A
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) N/A Tele. #

WELL CONSTRUCTION
Total depth drilled 87 ft.
Well finished to 87 ft.
Borehole diameter:
Top 8.5 in.
Bottom 8.5 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 6" ft.
Was steel protective casing installed? [ ] Yes [X] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing				
Outer Casing (Not Protective Casing)	0	72	4"	PVC Sched 40
Screen (Note slot size)	72	82	4"	PVC Sched 40 x.010
Tail Piece	82	87	4	PVC Sched 40
Gravel Pack	61	87	8.5	Morie #0
Annular Seal/Grout	Surface	61		200 MESH Bentonite
Method of Grouting	Pressure Thru Tremie			

Static water level after drilling 17 ft.
Water level was measured using WETTED TAPE
Well was developed for 1 hours at 40 gpm
Method of development AIR LIFT
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type:
Drilling Method MUD ROTARY
Drilling Fluid BENTONITE Type of Rig MOBILE DRILL
Name of Driller DAVID PRIMOST
Health and Safety Plan submitted? [ ] Yes [X] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. M1041
Name of Drilling Company PICKWICK WELL DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

NOTE: original Drillers Log filed w/ Completed Well Report 29-26724
WIRE
#2 Copper wire for LST grounding
4" WELL SEAL
INSIDE OF CASING SEALED w/ BENTONITE grout Pressure thru tremie

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature David Primost Date 02/03/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

2/4/93 2/4/93

WELREC 107 1246

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

4

MONITORING WELL RECORD

Well Permit No. 29 29421
Atlas Sheet Coordinates ~~29~~ : ~~13~~ : ~~852~~

OWNER IDENTIFICATION - Owner WIN CUP
Address 45 PARK ROAD
City TINTON FALLS State NJ Zip Code 07724

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County Monmouth Municipality TINTON FALLS BO Lot No. 21.02 Block No. 114.01
Address 46 Park Road

TYPE OF WELL (as per Well Permit Categori MONITORING Date well completed 4 / 8 / 93
Regulatory Program Requiring Well ECRA Case I.D. # 91703

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 14 ft.
Well finished to 13 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	3	4	Sch. 40 PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	3	13	4	.010 PVC
Tail Piece				
Gravel Pack	2.5	14		#1
Annular Seal/Grout	0	2.5		Cement-bentonite
Method of Grouting	Gravity Placement			

Static water level after drilling 3.5 ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 5 gpm
Method of development Pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity ____ gpm
Pump type: ____
Drilling Method HSA
Drilling Fluid NONE Type of Rig Mobile B-53
Name of Driller Len Stone
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. J1866
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-14 Dark Green M-C Sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Len Stone (GD) Date 5-10-93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 .29607
Atlas Sheet Coordinates 29 : 13 : 842

OWNER IDENTIFICATION - Owner MONMOUTH COUNTY
Address KOZLOSKI RD. & CENTER STREET
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW3
County Monmouth Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.01~~ Block No. ~~97~~
Address Highway District #3/6 Pine Brook Rd

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 5/3/93
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Killam Associates Tele. #2013793400

WELL CONSTRUCTION

Total depth drilled 18' ft.
Well finished to 17½ ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☒ Yes ☐ No Cast iron cap

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	7½	4	schedule 40 pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	7½	17½	4	.020 schedule 40 PVC
Tail Piece				
Gravel Pack	6	18	12	#2 Sand
Annular Seal/Grout	0	6	12	6" Bentonite seal 5' 6" portland neat cement
Method of Grouting	pressure Grout			

Static water level after drilling 8'4" ft.
Water level was measured using tape
Well was developed for 1 hours at 5 gpm
Method of development Submersible
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity 10 gpm
Pump type: Gould
Drilling Method Hollow Stem Auger
Drilling Fluid None Type of Rig Mobile Drill B47
Name of Driller Ronald Cook
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J1603
Name of Drilling Company KEY-TECH

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

SEE ATTACHED LOGS

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Ronald Cook Date 5/20/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

Atlas COORD #29·13·842 Permit #2929607

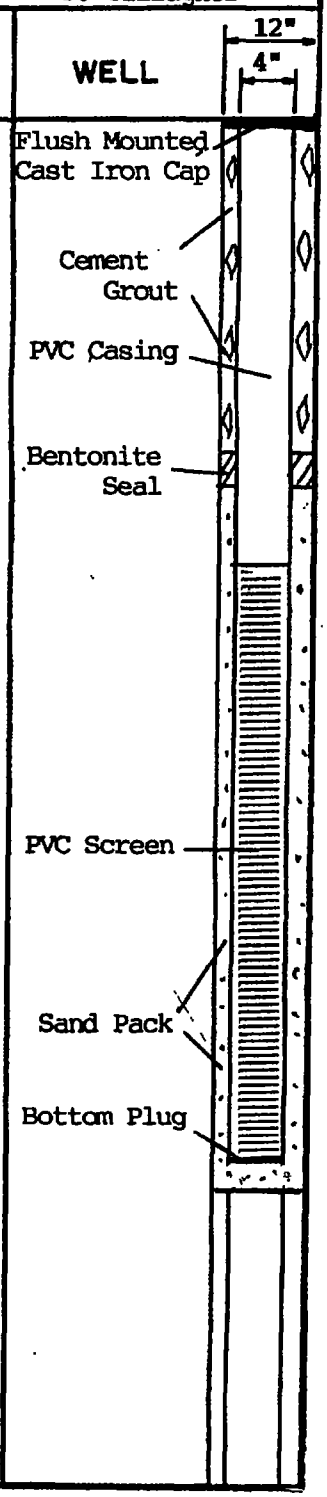
KEY - TECH	WELL INSTALLATION LOG	WELL NO: MW-3

PROJECT HIGHWAY DISTRICT #3/6, TINTON FALLS, MONMOUTH CO.	SHEET NO.: 1 OF 1
CLIENT KILLAM ASSOCIATES, 25 E. WILLOW ST., MILLBURN, NJ	JOB NO.: 93-36
BORING CONTRACTOR KEY - TECH	ELEVATION:
GROUND WATER	DATUM:
	DATE START: 5-3-93
	DATE FINISHED: 5-3-93
	DRILLER: R. Cook
	REP. J. Gallagher

DATE	TIME	DEPTH	CASING	TYPE	CAS.	SAMP.	CORE	TUBE
5-3-93	9:15	8'4"	In	DIA.	3¼	2"		
29.13.842				WT.		140#		
2929607				FALL		30"		

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	* STRATIGRAPHY	REMARKS
1						
2						
3						
4						
5						
6		S-1	7, 8, 9, 9		Olive yellow medium to fine SAND 5'0" - 7'0"	
7						
8						
9						
10						
11		S-2	4, 5, 4, 5		Olive brown medium to fine SAND 10'0" - 12'0"	
12						
13						
14						
15						
16		S-3	3, 5, 4, 4		Olive brown fine SAND 15'0" - 17'0"	
17						
18					TEST BORING COMPLETE @ 17'0"	
19						
20						
21						
22						
23						

WELL



DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 29623
Atlas Sheet Coordinates 29 : 13 : 842

OWNER IDENTIFICATION - Owner ~~MONMOUTH COUNTY~~
Address KOZLOSKI ROAD & CENTER ST.
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW2A
County Municipality ~~TINTON FALLS BO~~ Lot No. ~~21.01~~ Block No. ~~97~~
Address Highway District #3/6 Pine Brook Rd

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 5/4/93
Regulatory Program Requiring Well ~~UST~~ Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Killam Associates Tele. #2013793400

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 14 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☒ Yes ☐ No Cast iron cap

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	4	4	schedule 40 PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4	14	4	.020 schedule 40 PVC
Tail Piece				
Gravel Pack	3 1/2	15	12	#2 well sand
Annular Seal/Grout	0	3 1/2	12	1/2" Bentonite seal 3' Portland Neat Cement
Method of Grouting				

Static water level after drilling 6'7" ft.
Water level was measured using tape
Well was developed for 1 hours at 3 gpm
Method of development Submersible pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity 10 gpm
Pump type: Gould
Drilling Method Hollow Stem Auger
Drilling Fluid None Type of Rig Mobile Drill B47
Name of Driller Ronald Cook
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J1603
Name of Drilling Company KEY-TECH

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

See Attached Logs

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Ronald Cook Date 5/20/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

Atlas Coord # 29:13:842 Permit # 29-29623

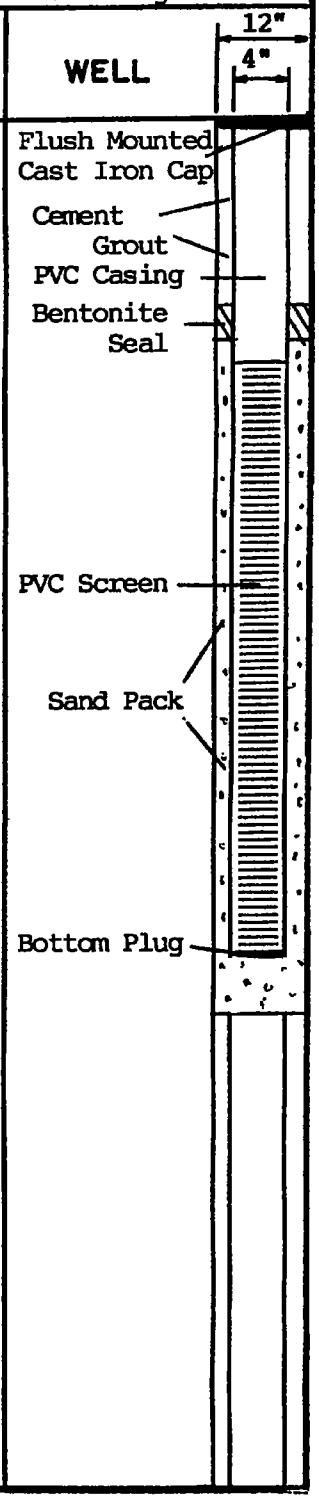
KEY- TECH	WELL INSTALLATION LOG	WELL NO: MW-2A

PROJECT HIGHWAY DISTRICT #3/6, TINTON FALLS, MONMOUTH CO.	SHEET NO.: 1 OF 1
CLIENT KILLAM ASSOCIATES, 25 E. WILLOW ST., MILLBURN, NJ	JOB NO.: 93-36
BORING CONTRACTOR KEY - TECH	ELEVATION:
	DATUM:
	DATE START: 5-4-93
	DATE FINISHED: 5-4-93
	DRILLER: R. Cook
	REP. J. Gallagher

GROUND WATER					CAS.	SAMP.	CORE	TUBE
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS		
5-4-93	10:30	6'7"	In	DIA.	3¼	2"		
29.13.842				WT.		140#		
29-29623				FALL		30"		

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	* STRATIGRAPHY	REMARKS
1						
2						
3						
4						
5						
6		S-1	4, 3, 3, 3		Olive brown medium to fine SAND 5'0" - 7'0"	
7						
8						
9						
10						
11		S-2	5, 6, 5, 5		do	
12						
13						
14						
15						
16					TEST BORING COMPLETE @ 15'0"	
17						
18						
19					* Soil descritpions are by drillers visual examination of soil samples obtained during test boring procedures.	
20						
21						
22						
23						

WELL



DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

2500

Well Permit No. 29 - 29742
Atlas Sheet Coordinates 29 : 13 : 827

OWNER IDENTIFICATION - Owner US ARMY - FT. MONMOUTH
Address BLDG. 167 - DEH ENVIR.
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6/8/93
Regulatory Program Requiring Well UST Case I.D. # C-91-2842
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 25 ft.
Well finished to 25 ft.
Borehole diameter:
Top 12" in.
Bottom 12" in.
Well was finished: ☑ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0'	5'	4"	Sched 40 PVC
Outer Casing (Not Protective Casing)				
.010 Screen (Note slot size)	5'	25'	4"	" " "
Tail Piece	THD	CAP	4"	PVC
Gravel Pack	3'	25'	12"	#1 Morie
Annular Seal/Grout	0'	3'	12"	Neat Cement
Method of Grouting	Gravity			

Static water level after drilling 7 ft.
Water level was measured using M Scope
Well was developed for 1 hours at 3 gpm
Method of development submersible
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity — gpm
Pump type: —
Drilling Method HSA
Drilling Fluid — Type of Rig Mobil B-57
Name of Driller Robert M. Hesse
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1051M
Name of Drilling Company DIRECT ENVIRONMENTAL INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-10 - well sorted sand (yellow) w/fines
10-25. grading to coarser sand with some clay at (15-20') and a little gravel.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Robert M. Hesse Date 7-26-93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

2500

Well Permit No. 29 - 29743
Atlas Sheet Coordinates 29 : 13 : 827

OWNER IDENTIFICATION - Owner US ARMY - FT. MONMOUTH
Address HLDG. 167 - DEH ENVIR.
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-2
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6/9/93
Regulatory Program Requiring Well UST Case I.D. # C-91-2842
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION
Total depth drilled 25 ft.
Well finished to 25 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☑ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0'	5'	4"	Sched 40 PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size) .010	5' ~~20~~	25'	4"	" "
Tail Piece	THO	CAP	4"	PVC
Gravel Pack	3'	25'	12"	#1 Monie
Annular Seal/Grout	0'	3'	12"	Neat Cement
Method of Grouting	GRAVITY			

Static water level after drilling 7 ft.
Water level was measured using M scope
Well was developed for 1 hours at 3 gpm
Method of development Submersible
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity — gpm
Pump type: —
Drilling Method HSA
Drilling Fluid — Type of Rig Mobil B-57
Name of Driller Robert W. Hesse
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1051
Name of Drilling Company DIRECT ENVIRONMENTAL INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-12 - well sorted sand w/ some fines
12-20 - sand with some clay throughout with some gravel
20-25 - med to fine sand with some clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature [signature] Date 7-26-93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

E

2500

Well Permit No. 29 - 29744
Atlas Sheet Coordinates 29 : 13 : 827

OWNER IDENTIFICATION - Owner US ARMY - FT. MONMOUTH
Address BLDG. 167 - DEH ENVIR.
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-3
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6/10/93
Regulatory Program Requiring Well UST Case I.D. # C-31-2842
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 25 ft.
Well finished to 25 ft.
Borehole diameter:
Top 12" in.
Bottom 12" in.
Well was finished: ☑ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0'	5'	4"	Sched 40 PVC
Outer Casing (Not Protective Casing)				
.010 Screen (Note slot size)	~~25~~ 5'	25	4"	" " "
Tail Piece	THD	CAP	4"	PVC
Gravel Pack	3'	25'	12"	#1 Morie
Annular Seal/Grout	0'	3'	12"	Neat Cement
Method of Grouting	Gravity			

Static water level after drilling 7 ft.
Water level was measured using Nscope
Well was developed for 1 hours at 3 gpm
Method of development Submersible
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity — gpm
Pump type: —
Drilling Method HSA
Drilling Fluid — Type of Rig Mobil B-57
Name of Driller Robert M Hessn
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1051M
Name of Drilling Company DIRECT ENVIRONMENTAL INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-10 - well mixed sand with some fines
10-20 - increasing gravel & clay mixed with sand
20-25 - gravel grading out to sand with some clay.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature [signature] Date 7-26-93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1015

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

2500

Well Permit No. 29 - 29745
Atlas Sheet Coordinates 29 : 13 : 827

OWNER IDENTIFICATION - Owner US ARMY - FT. MONMOUTH
Address BLDG. 167 - DEH ENVIR.
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-4
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address Bldg 2500

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6/10/93
Regulatory Program Requiring Well DEP Case I.D. # C-91-2842
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 25 ft.
Well finished to 25 ft.
Borehole diameter:
Top 12" in.
Bottom 12" in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? [ ] Yes [X] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0'	5'	4"	Sched 40 PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size) 1010	5'	25	4"	" " "
Tail Piece	THD	CAP	4"	PVC
Gravel Pack	3'	25'	12"	#1 morie
Annular Seal/Grout	0'	3'	12	NEAT CEMENT
Method of Grouting	GRAVITY			

Static water level after drilling 7 ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 3 gpm
Method of development Submersible
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity — gpm
Pump type: —
Drilling Method HSA
Drilling Fluid — Type of Rig Mobil B-57
Name of Driller Robert M Hesse
Health and Safety Plan submitted? [X] Yes [ ] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1051 M
Name of Drilling Company DIRECT ENVIRONMENTAL INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-15 - well sorted yellow sand with some fines

15-25 - increasing gravel - clay mixed with sand (med to fine)

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature [signature] Date 7-26-93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1016

29-13-828

LAUMAN LABORATORIES, INC.

100 LAUMAN LANE • BETHPAGE, N. Y. 11714 • (516) 931-2305

29,13,828

ENVIRONMENTAL ANALYSIS

REPORT OF CHEMICAL ANALYSES

DATE November 21, 1969

TO

SOURCE OF SAMPLE

PVC Container Corporation

Eaton Town, New Jersey

COLLECTED 11/18/69 RECEIVED 11/20/69 REPORTED 11/20/69

SAMPLING POINT	TIME
1	
2	
3	
4	

		1	2	3	4
TURBIDITY	UNITS				
HYDROGEN ION CONCENTRATION	pH	4.7			
FREE CARBON DIOXIDE, AS CO_2	mg/l				
ALKALINITY P, AS $CaCO_3$	mg/l				
TOTAL ALKALINITY, AS $CaCO_3$	mg/l				
HARDNESS, TOTAL AS $CaCO_3$	mg/l	10.0			
CHLORIDES, AS Cl	mg/l				
IRON, AS Fe	mg/l	0.85			
MANGANESE, AS Mn	mg/l				
AMMONIA, FREE, AS N	mg/l				
NITRATES, AS N	mg/l				
SYNTHETIC DETERGENTS, AS MBAS	mg/l				

REMARKS

LAB. NO. C-8528

COLLECTED BY JTK

ANALYZED BY ELK

LAUMAN LABORATORIES, INC.

B. Anderson

DIRECTOR

29.13.828

SAND ANALYSIS

EDWARD E. JOHNSON, INC.

29.13.828

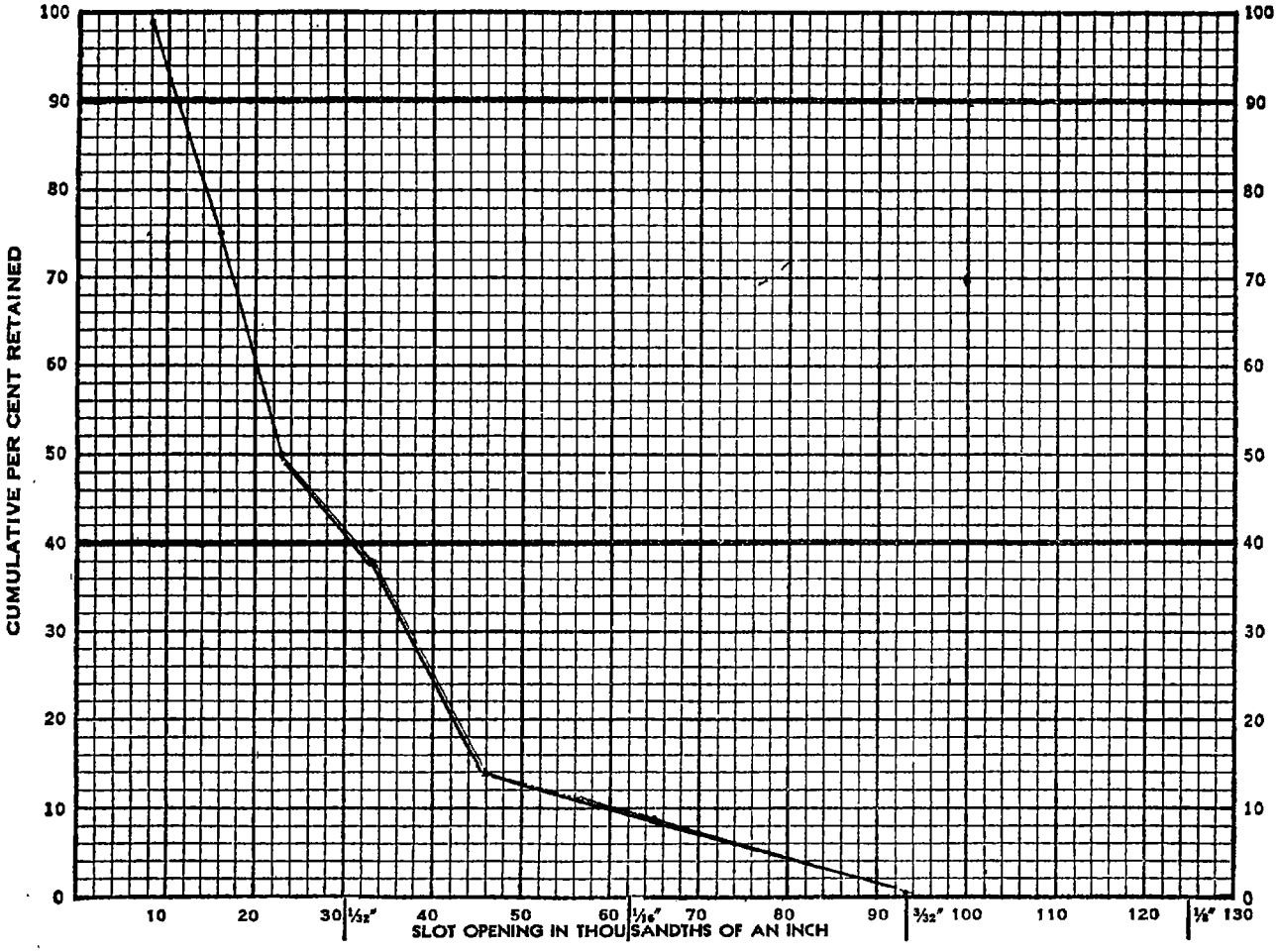
SAINT PAUL, MINN.

Sample sent in by J.T. KEARNS Date NOV. 19, 1969

Address SEA GIRT N.J.

From well of P.V.C. CONTAINER CORP. EATONTOWN N.J.

Remarks DEPTH 18' - 24'



SIEVE OPENINGS	CUMULATIVE PER CENT RETAINED			
	WGT	PCT		
.131				
.093				
.065	9	9		
.046	14	14		
.033	38	38		
.023	50	50		
.016	75	75		
~~.012~~				
.008	99	99		
~~.006~~	+			
~~SCREEN SLOT~~ PASS	100	100		

NOTES:

RECOMMENDED SCREEN: DIA. _____ IN. LENGTH _____ FT.

SO MANY CONSIDERATIONS ENTER INTO THE MAKING OF A GOOD WELL THAT, WHILE WE BELIEVE SLOT SIZES FURNISHED OR RECOMMENDED FROM SAND SAMPLES ARE CORRECT WE ASSUME NO RESPONSIBILITY FOR THE SUCCESSFUL OPERATION OF JOHNSON WELL SCREENS.

29.13.828

Date 11-15-64

TO P.V.C. CORPORATION
INDUSTRIAL WAY WEST
EATONTOWN N.J.
ATT. MR. ANDRES LIPPENS

RE: TEST BORING PROGRAM
FOR RECHARGE AVAILABILITY
29.13.828

GENTLEMEN:-

FOLLOWING IS A REPORT ON THE TEST BORING PROGRAM CARRIED OUT ON FRIDAY NOV. 14th & SAT. NOV. 15th, 1964 IN THE AREA WEST OF YOUR PLANT:

A 4" DIAM. STEEL CASING WAS BAILED INTO A 6 FT DEEP AUGERED HOLE TO A TOTAL DEPTH OF 28 FEET BELOW GRADE

AN EXCELLENT WATER-BEARING (AND RECHARGE) SAND, GRITS & SMALL GRAVEL FORMATION WAS ENCOUNTERED BETWEEN THE DEPTHS OF 17 FT. AND 24 FT. BELOW 24 FT THE FORMATION WAS WATER BEARING, BUT SLIGHTLY CLAYEY.

AN 1¼" STAINLESS STEEL WELL POINT WAS INSERTED IN THE 4" CASING WITH 1¼" STEEL GALV. PIPE BROUGHT UP TO ABOVE GRADE, AND THIS WELL WAS DEVELOPED AND PUMPED AT A MAXIMUM CAPACITY OF 40 GPM ON SAT. NOV. 15th. SLOT SIZE OF SCREEN WAS .025". LENGTH 36".

SUBSEQUENTLY, A RECHARGE TEST WAS MADE WITH CITY WATER AT A FLOW RATE OF 8.6 GPM OVER A DURATION OF ONE HOUR. MEASUREMENT OF BUILD-UP IN WATER LEVEL WAS MADE BY ELECTRIC TELL-TALE BETWEEN THE 4" AND THE 1¼" PIPES. AFTER 15 MIN OF CONSTANT FLOW THE WATER LEVEL ROSE FROM THE STATIC LEVEL OF 5'6" TO WITHIN 17" OF GRADE AND HELD THERE FOR THE BALANCE OF ONE HOUR TOTAL TEST

29.13.828

Date 11-15-69

TO RVC CORP.

RE: TEST BORING PROGRAM FOR RECHARGE AVAILABILITY 29.13.828

(2)

ON THE BASIS OF THE FOREGOING INFORMATION, I RECOMMEND THAT THREE (3) 6" x 2" GRAVEL PACKED WELLS BE INSTALLED WITH SIX (6) FEET OF STAINLESS STEEL SCREEN, #40 SLOT (.040"). AFTER GRAVEL PACKING & DEVELOPING TO STABILIZATION THE 6" CASING IS TO BE REMOVED AND THE BALANCE OF THE ANNULAR SPACE FILLED WITH IMPERVIOUS MATERIAL.

THESE WELLS SHOULD BE ENCASED IN A CEMENT BLOCK ACCESS PIT, WITH TOP OF WELL FINISHED WITH A TEE AND PLUGGED TOP. WELLS SHOULD BE MANIFOLDED SO THAT THE RECHARGE WATER IS EVENLY DISTRIBUTED THRUOUT THE FORMATION ENCOMPASSED.

AN ANALYSIS OF THE WATER WILL BE FORWARDED AS SOON AS RECEIVED FROM THE LABORATORY, AS WILL A COPY OF THE SAND ANALYSIS.

A BUDGET ESTIMATE ON THE COMPLETE RECHARGE SYSTEM WITH MANIFOLD PIPING AND CONNECTED TO THE DISCHARGE LINE FROM YOUR EXISTING PUMP WOULD BE FROM $1500.00 TO $1600.00

RESPECTFULLY SUBMITTED

Joseph T. Kearns

JOSEPH T. KEARNS
GROUND WATER CONSULTANT
SEA GIRT N.J.

SUPPLY WELL LOG 29.13.828 WPCC No.

Name: Pol Contract Co. Address: 536 Frontstreet Honolulu

Date Started: 11-14-69 Completed: 11-15-69 Driller: E. Richmond

Measured from Grade ☑ Yes ☐ No

Above ... Ft. ... In. Below ... Ft. ... In.

Level: 5 Ft. 6" In. Elevation ... Ft. 29.13.828

	Stratum Thickness	Stratum Depth	Temperature Sand	Temperature Water
0-1' Greenish Sand. Med. Fine	1	1'		
1-2' Greenish Sand w/more Brownish Loose Mixed Med. Fine	1	2'	Fill	
2-3' Brownish Sand. Med. Fine	1	3'		
3-4' Brownish Brn. Med. Fine	1	4'		
4-5' Brn. to Greenish. Med. Fine	1	5'		
5-6' Greenish Sand. Fine, more Clay	1	6'		
6-7' Greenish Sand. Med. Fine w/some Coarse Sand. Water Level 6 1/2'	1	7'		
Dry Auger Samples To 7'				
7-8' Greenish Gray Coarse Sand Mixed Pebbles Mixed w/Fine Sand	1	8'		
8-9' Same but w/more Coarser Fine Gravel Mixed.	1	9'		
9-10' Greenish Gray Fine to Coarse Mixed. Noticed Clayey Mixture w/Water Flowing Low into Hole	1	10'		
10-11' Same as Above	1	11'		
11-12' Dk. Gray Sand Fine to Coarse	1	12'		
12-13' Same w/some Stone to 3/4"	1	13'		
13-14' Same w/more Stone	1	14'		
14-15' Dk. Gray Med. Sand w/Lots of White Found Stone up to 1 1/2"	1	15'		

WELL LOG

WECC No. 29.13.828

No.

Address

Date Started ..... Completed ..... Driller .....

Diameter ..... In. Measured from Gauge ☐ Yes ☐ No

Depth ..... Ft. ..... In. Above ..... Ft. ..... In. Below ..... Ft. ..... In.

Static Level ..... Ft. ..... In. Elevation ..... Ft. 29.13.828

	STRATUM Thickness	STRATUM Depth	TEMPERATURE Sand	TEMPERATURE Water
5-16' DK Gray Med. coarse sand	1	16'		
to Coarse Gravel.				
6-19 Same w/less large stone	1	17'		
19-18 Gray sand more even				
& smaller	1	18'		
18-19 Same still sharp	1	19'		
19-20 Gray coarse sand mixed				
w/ white stone	1	20'		
20-21 Gray med. coarse sand				
w/ white stone	1	21'		
21-22 Gray coarse sand w/ stone	1	22'		
22-23 Gray coarse sand more				
even less stone, more fine,				
trace of water flows out	1	23'		
23-24 Gray sand more even				
& sharp	1	24		
24-25 Same as above less sharp	1	25		
25-26 Same even sand but				
less sharp than 24'	1	26'		
Drilled to 30' no change				
Test pumped at 18' with				
.025 @ 30 gpm. Dry at 20'				
increased to 18.5 at 5 gpm				
5.35 - 18 gpm				

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

868

MONITORING WELL RECORD

Well Permit No. 29 - 29752
Atlas Sheet Coordinates ~~29~~ : ~~13~~ : 854

OWNER IDENTIFICATION - Owner WORZALLA PUBLISHING CO.
Address 556 INDUSTRIAL WAY WEST
City EATONTOWN State NJ Zip Code

WELL LOCATION - [redacted] please give address. Owner's Well No. MW1
County MONMOUTH Municipality EATONTOWN BORO Lot No. 63 Block No. 111
Address [redacted]

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6/14/93
Regulatory Program Requiring Well Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 10 ft.
Well finished to 10 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	5	4	PVC Sch 40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	10	4	PVC Sch 40 .020
Tail Piece				
Gravel Pack	3	10	12	#2 morie
Annular Seal/Grout	0	3	12	Portland Neat
Method of Grouting	Gravity Displacement			

Static water level after drilling 3 ft.
Water level was measured using M-Scope
Well was developed for 5 hours at 1 gpm
Method of development Bailer
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity — gpm
Pump type: —
Drilling Method HSA
Drilling Fluid — Type of Rig Mobile B-53
Name of Driller Ken Cox
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1145
Name of Drilling Company M & R SOIL INVESTIGATIONS, INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-5 C-M-F Brown Sand
5-10 C-M-F Green Sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Ken Cox Date 6/22/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 29753
Atlas Sheet Coordinates ~~29~~ : ~~13~~ : 854

OWNER IDENTIFICATION - Owner WORZALLA PUBLISHING CO.
Address 556 INDUSTRIAL WAY WEST
City EATONTOWN State NJ Zip Code

WELL LOCATION [redacted] owner please give address. Owner's Well No. MW2
County MONMOUTH Municipality EATONTOWN BORO Lot No. 63 Block No. 111
Address [redacted]

TYPE OF WELL (as per Well Permit Categories MONITORING Date well completed 6/14/93
Regulatory Program Requiring Well Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 10 ft.
Well finished to 10 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	5	4	PVC Sch 40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	10	4	PVC Sch 40 .020
Tail Piece				
Gravel Pack	3	10	12	#2 Morie
Annular Seal/Grout	0	3	12	Portland Neat
Method of Grouting	Gravity Displacement			

Static water level after drilling 3 ft.
Water level was measured using m-scope
Well was developed for 5 hours at 1 gpm
Method of development Bailer
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity — gpm
Pump type: —
Drilling Method HSA
Drilling Fluid Type of Rig Mobile B-53
Name of Driller Ken Cox
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1145
Name of Drilling Company M & R SOIL INVESTIGATIONS, INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-5 C-M-F Brown Sand
5-10 C-M-F Green Sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Ken Cox Date 6/22/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 29754
Atlas Sheet Coordinates 29 : 13 : 854

OWNER IDENTIFICATION - Owner WORZALLA PUBLISHING CO.
Address 556 INDUSTRIAL WAY WEST
City EATONTOWN State NJ Zip Code

WELL LOCATION - [redacted] owner please give address. Owner's Well No. MW3
County MONMOUTH Municipality EATONTOWN BORO Lot No. 63 Block No. 111
Address [redacted]

TYPE OF WELL (as per Well Permit Categories) Date well completed 6/14/93
Regulatory Program Requiring Well MONITORING Case I.D. #

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 10 ft.
Well finished to 10 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	5	1	PVC Sch 40
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	10	4	PVC Sch 40 .020
Tail Piece				
Gravel Pack	3	10	12	#2 Morie
Annular Seal/Grout	0	3	12	Portland Neat
Method of Grouting	Gravity Displacement			

Static water level after drilling 3 ft.
Water level was measured using M-Scope
Well was developed for 5 hours at 1 gpm
Method of development Bailer
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity — gpm
Pump type: —
Drilling Method HSA
Drilling Fluid — Type of Rig Mobile B-53
Name of Driller Ken Cox
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1145
Name of Drilling Company M & R SOIL INVESTIGATIONS, INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-5 C-M-F Brown Sand
5-10 C-M-F Green Sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Ken Cox Date 6/28/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 30115
Atlas Sheet Coordinates 29 : 13 : 912

OWNER IDENTIFICATION - Owner ALLIED SIGNAL INC.
Address COLUMBIA RD. & PARK AVE.
City MORRISTOWN State NJ Zip Code 07960

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 36
County MONMOUTH Municipality EATONTOWN BORO Lot No. 26 Block No. 64
Address 118 Highway 35 Eatontown N.J 07742

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 8/25/93
Regulatory Program Requiring Well ECRA Case I.D. # 86688
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) ERM NE / D. Scari' Tele. # (516) 921-4300

WELL CONSTRUCTION

Total depth drilled 12.2 ft.
Well finished to 12.2 ft.
Borehole diameter:
Top 11 in.
Bottom 11 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface _____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	2.2	4	Sch. 40 PVC
Outer Casing (Not Protective Casing)	—	—	—	—
Screen (Note slot size)	2.2	12.2	4	Sch 40 PVC .02
Tail Piece	—	—	—	—
Gravel Pack	1.0	12.2	11	No. 2 Morie
Annular Seal/Grout	0	1.0	11	Cement/bentonite
Method of Grouting	gravity placement			

Static water level after drilling 3.9 ft.
Water level was measured using tape
Well was developed for .5 hours at 3 gpm
Method of development centrifugal
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-61
Name of Driller Steven Wolf
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1579
Name of Drilling Company AQUIFER DRILLING & TESTING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-12' medium fine light brown sand + silt wet @ 3.9'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steven Wolf Date 9/10/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 30116
Atlas Sheet Coordinates 29 : 13 : 912

OWNER IDENTIFICATION - Owner ALLIED SIGNAL, INC.
Address COLUMBIA RD. & PARK AVE.
City MORRISTOWN State NJ Zip Code 07960

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 37
County MONMOUTH Municipality EATONTOWN BORO Lot No. 26 Block No. 64
Address 118 Highway 35 Eatontown N.J 07742

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 8/25/93
Regulatory Program Requiring Well RCRA Case I.D. # 86688
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) ERM NE/D Scari Tele. (516) 921 4300

WELL CONSTRUCTION

Total depth drilled 26 ft.
Well finished to 26 ft.
Borehole diameter:
Top 11 in.
Bottom 11 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface n/A ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	16	4	Sch 40 PVC
Outer Casing (Not Protective Casing)	—	—	—	—
Screen (Note slot size)	16	26	4	Sch 40 PVC .02
Tail Piece	—	—	—	—
Gravel Pack	14	26	11	No. 2 morie
Annular Seal/Grout	0	14	11	Cement/bentonite
Method of Grouting	Tremie Pipe Pressure Grouted			

Static water level after drilling 4 ft.
Water level was measured using tape
Well was developed for .5 hours at 3 gpm
Method of development Centrifugal
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity n/A gpm
Pump type: n/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-61
Name of Driller Steven Wolf
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1579
Name of Drilling Company AQUIFER DRILLING & TESTING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-11' medium light brown sand & silt wet @ 4'

11-26' medium dark brown sand, trace silt, trace gravel

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steven Wolf Date 9/10/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1360

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 30117
Atlas Sheet Coordinates 29 : 13 : 912

OWNER IDENTIFICATION - Owner ALLIED SIGNAL INC.
Address COLUMBIA RD. & PARK AVE.
City MORRISTOWN State NJ Zip Code 07960

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 38
County MONMOUTH Municipality EATONTOWN BORO Lot No. 26 Block No. 64
Address 118 Highway 35 Eatontown N.J 07742

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 8/26/93
Regulatory Program Requiring Well RCRA Case I.D. # 66688
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) ERM NE/D. Scari Tele. # (516) 921 4300

WELL CONSTRUCTION

Total depth drilled 37.5 ft.
Well finished to 37.5 ft.
Borehole diameter:
Top 11 in.
Bottom 11 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	27.5	4	Sch 40 PVC
Outer Casing (Not Protective Casing)	—	—	—	—
Screen (Note slot size)	27.5	37.5	4	Sch 40 PVC .02
Tail Piece	—	—	—	—
Gravel Pack	25.5	37.5	11	No. 2 morie
Annular Seal/Grout	0	25.5	11	Cement/bentonite
Method of Grouting	~~gravity~~ ~~pressure~~ Tremie pipe pressure grouted			

Static water level after drilling 4 ft.
Water level was measured using tape
Well was developed for .5 hours at 3 gpm
Method of development centrifugal
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-61
Name of Driller Steven Wolf
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1579
Name of Drilling Company AQUIFER DRILLING & TESTING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-23' medium fine sand tan, trace silt wet @ 4'
23-36' medium fine sand lt. brown, trace silt, trace gravel
36-37.5' fine black silt + clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steven Wolf Date 9/10/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

E

MONITORING WELL RECORD

Well Permit No. 29 30118
Atlas Sheet Coordinates ~~29~~ : ~~13~~ : 912

OWNER IDENTIFICATION - Owner ALLIED SIGNAL INC.
Address COLUMBIA RD. & PARK AVE.
City MORRISTOWN State NJ Zip Code 07960

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 33
County MONMOUTH Municipality ENGLISHTOWN BORO Lot No. 13 Block No. 64
Address 118 Highway 35 Englishtown N.J 07742

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 8/30/93
Regulatory Program Requiring Well ECRA Case I.D. # 86688
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) ERM NE/D. Scuri Tele. # (516) 921 4300

WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.
Borehole diameter:
Top 11 in.
Bottom 11 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	2	4	Sch 40 PVC
Outer Casing (Not Protective Casing)	—	—	—	—
Screen (Note slot size)	2	12	4	Sch 40 PVC .02
Tail Piece	—	—	—	—
Gravel Pack	1	12	11	No. 2 morie
Annular Seal/Grout	0	1	11	Cement/bentonite
Method of Grouting	Gravity Placement			

Static water level after drilling 3.2 ft.
Water level was measured using tape
Well was developed for 15 hours at 45 gpm
Method of development Centrifugal
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-61
Name of Driller Steven Wolf
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1579
Name of Drilling Company AQUIFER DRILLING & TESTING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-12' medium fine, light brown silty sand wet @ 3.2'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steven Wolf Date 9/10/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

E

MONITORING WELL RECORD

Well Permit No. 29 30119
Atlas Sheet Coordinates 29 : 13 : 912

OWNER IDENTIFICATION - Owner ALLIED SIGNAL INC.
Address COLUMBIA RD. & PARK AVE.
City MORRISTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 34
County MONMOUTH Municipality EATONTOWN BORO Lot No. 13 Block No. 84
Address 118 Highway 35 Eatontown N.J 07742

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 8/30/93
Regulatory Program Requiring Well ECRA Case I.D. # 86688
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) ERM NE/D. Scari' Tele. # (516) 921-4300

WELL CONSTRUCTION

Total depth drilled 22 ft.
Well finished to 22 ft.
Borehole diameter:
Top 11 in.
Bottom 11 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	12	4	Sch. 40 PVC
Outer Casing (Not Protective Casing)	—	—	—	—
Screen (Note slot size)	12	22	4	Sch. 40 .02
Tail Piece	—	—	—	—
Gravel Pack	10	22	11	No. 2 Morie
Annular Seal/Grout	0	10	11	Cement/bentonite
Method of Grouting	~~gravity placement~~ tremie pipe pressure grouted			

Static water level after drilling 3.2 ft.
Water level was measured using tape
Well was developed for 1.5 hours at 3 gpm
Method of development centrifugal
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-61
Name of Driller Steven Wolf
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1579
Name of Drilling Company AQUIFER DRILLING & TESTING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-22' medium light brown
silty sand
wet @ 3.2'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steven Wolf Date 9-10-93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 30120
Atlas Sheet Coordinates 29 : 13 : 912

OWNER IDENTIFICATION - Owner ALLIED SIGNAL INC.
Address COLUMBIA RD. & PARK AVE.
City MORRISTOWN State NJ Zip Code 07960

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 35
County MONMOUTH Municipality EATONTOWN BORO Lot No. 13 Block No. 64
Address 118 Highway 35 Eatontown N.J 07742

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 8/30/93
Regulatory Program Requiring Well ECRA Case I.D. # 86688
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) ERM NE/D. Scuri Tele. # (516) 921 4300

WELL CONSTRUCTION

Total depth drilled 32.5 ft.
Well finished to 32.5 ft.
Borehole diameter:
Top 11 in.
Bottom 11 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	22.5	4	Sch 40 PVC
Outer Casing (Not Protective Casing)	—	—	—	—
Screen (Note slot size)	22.5	32.5	4	Sch 40 PVC .02
Tail Piece	—	—	—	—
Gravel Pack	20.5	32.5	11	No. 2 Morie
Annular Seal/Grout	0	20.5	11	Cement/bentonite
Method of Grouting				Tremie Pipe Pressure grouted

Static water level after drilling 3 ft.
Water level was measured using tape
Well was developed for 1.5 hours at 3 gpm
Method of development Centrifugal
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-61
Name of Driller Steven Wolf
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1579
Name of Drilling Company AQUIFER DRILLING & TESTING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-26' medium fine light brown silty sand wet @ 3'
26-29' medium fine black silty sand
29-33' fine silty black sand + clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steven Wolf Date 9/10/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1364

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 30480
Atlas Sheet Coordinates 29 : 13 : 911

OWNER IDENTIFICATION - Owner EATONTOWN BOARD OF EDUCAT
Address 215 BROAD STREET
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County MONMOUTH Municipality EATONTOWN BORO Lot No. 43-44 Block No. 55
Address 7 Grant Ave.

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 11 / 24 / 93
Regulatory Program Requiring Well Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Target Enviromental Tele. # 609-697-7575

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	5'	4"	PVC SCH 40 FJ
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5'	15'	4"	PVC SCH 40 FJ .020
Tail Piece				
Gravel Pack	3'	15'		#1 Morie
Annular Seal/Grout	1' 0	3' 1'		Bentonite Pellets Cement Grout
Method of Grouting	Tremie			

Static water level after drilling 7 ft.
Water level was measured using M-Scope
Well was developed for 1/4 hours at 5 gpm
Method of development Pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid none Type of Rig CME-75
Name of Driller David Conover
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. J 1521
Name of Drilling Company UNI-TECH DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-2'	Coarse Sand	Yellowish Red
2'-6'	Sandy Loam	Reddish Yellow
6'-8'	Sandy Loam	Yellowish Brown
8'-15'	Sandy Loam	Yellowish Red

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature [signature] Date 12/29/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 30494
Atlas Sheet Coordinates 29 : 13 : 912

OWNER IDENTIFICATION - Owner ALLIED SIGNAL, INC.
Address COLUMBIA RD. & PARK AVE.
City MORRISTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 39
County MONMOUTH Municipality EATONTOWN BORO Lot No. 13 Block No. 64
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 11/30/93
Regulatory Program Requiring Well ECRA Case I.D. # 86680
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) ERM-NE/J. Sheehan Tele. # 516 921 4300

WELL CONSTRUCTION

Total depth drilled 18 ft.
Well finished to 18 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 0.45 ft.
Was steel protective casing installed? [ ] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	5	4	Sch. 40 PVC
Outer Casing (Not Protective Casing)	—	—	—	—
Screen (Note slot size)	5	15	4	Sch. 40 PVC .020 slot
Tail Piece	—	—	—	—
Gravel Pack	3	18	12	No. 2 Morie
Annular Seal/Grout	0	3	12	Cement/bentonite
Method of Grouting	Gravity Placement			

Static water level after drilling 1.49 ft.
Water level was measured using tape
Well was developed for N/A hours at N/A gpm
Method of development N/A
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid NONE Type of Rig Mobile B-57
Name of Driller Carlos Fuente
Health and Safety Plan submitted? [X] Yes [ ] No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1129
Name of Drilling Company AQUIFER DRILLING & TESTING INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-5' Dark brown fine + medium sand w/trace of silt + gravel. wet at 1.49 ft.
5-10' Brown + dark brown fine sand + silt. wet
10-15' Dark brown fine sand + silt. Finer material than above. wet. Magnate minerals present.
15-18' Dark brown fine sand + silt, wet. well sorted mat'l.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature [signature] Date 12/13/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 107 1365

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 30495
Atlas Sheet Coordinates 29 : 13 : 912

OWNER IDENTIFICATION - Owner ALLIED SIGNAL INC.
Address COLUMBIA RD. & PARK AVE.
City MORRISTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 40
County MONMOUTH Municipality EATONTOWN BORO Lot No. 13 Block No. 64
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 11/29/93
Regulatory Program Requiring Well ECRA Case I.D. # 86880
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) ERM-NE/J. Sheehan Tele. # 516 921 4300

WELL CONSTRUCTION

Total depth drilled 30 ft.
Well finished to 30 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 0.05 ft.
Was steel protective casing installed? [ ] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	18	4	Sch. 40 PVC
Outer Casing (Not Protective Casing)	—	—	—	—
Screen (Note slot size)	18	28	4	Sch. 40 PVC .020 slot
Tail Piece	—	—	—	—
Gravel Pack	16	30	12	No. 2 Morie
Annular Seal/Grout	0	16	12	Cement/bentonite
Method of Grouting	Tremie Grouted			

Static water level after drilling 1.27 ft.
Water level was measured using tape
Well was developed for N/A hours at N/A gpm
Method of development N/A
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid None Type of Rig Mobile B-57
Name of Driller Carlos Puente
Health and Safety Plan submitted? [X] Yes [ ] No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1129
Name of Drilling Company AQUIFER DRILLING & TESTING INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-5' Dark brown fine & medium sand w/trace of silt + gravel. Wet @ 1.27'
5-10' Brown + dk. brown fine sand + silt, wet.
10-15' Dark brown fine sand + silt, finer mat'l than above. Wet. Magnetic minerals present.
15-20' Dark brown fine sand + silt. Wet.
20-30' Dk brown fine sand + silt. Dk brown bending to very fine sand + silt. Some clay.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature [signature] Date 12/13/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

1-24

Well Permit No. 29 - 30514
Atlas Sheet Coordinates 29: 13: 853

OWNER IDENTIFICATION - Owner STANDARD ROOFING INC
Address 100 PARK ROAD
City TINTON FALLS State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1
County MONMOUTH Municipality TINTON FALLS BO Lot No. 29 Block No. 11401
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 12/13/93
Regulatory Program Requiring Well UST Case I.D. # ~~93-9-30-0723-47~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) RECON SYSTEMS INC. Tele. # 908-526-1000

WELL CONSTRUCTION

Total depth drilled 12 ft.
Well finished to 12 ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	2	2	PVC Tube
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2	12	2	PVC Screen .020
Tail Piece				
Gravel Pack	1.8	12	8	Sand
Annular Seal/Grout	0	1.8	8	Portland
Method of Grouting	Gravity			

Static water level after drilling 6 ft.
Water level was measured using Tape measure
Well was developed for 1 hours at 1.5 gpm
Method of development Centrifigal Pump
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity ____ gpm
Pump type: ____
Drilling Method Auger
Drilling Fluid None Type of Rig Simco 2800
Name of Driller Craig Caldwell
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1549
Name of Drilling Company RECON SYSTEMS, INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Attached

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature C M Caldwell Date 12/16/93

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

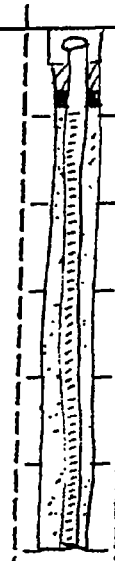
THREE BRIDGES, NJ

PERMIT NO. 29-30514

SHEET OF

JOB NO.	CLIENT	PROJECT LOCATION
4331	STANDARD ROOFINGS INC.	Tinton Falls
LOCATION OF WELL	29.13.853	ELEVATION AND DATUM
UST Area	29 30514	Grade
DRILLING CONTRACTOR	DRILLER	INSPECTOR
RECON SYSTEMS	CMC	JJO
DRILLING RIG TYPE	BIT TYPE	DATE STARTED / DATE COMPLETED
Simco	8"	12/13/93 / 12/13/93
SAMPLER TYPE	HAMMER WEIGHT / DROP	TOTAL DEPTH / WATER LEVEL
'		12' / 6'

SAMPLE NO.	SAMPLE BLOWS	LITH TYPE	DEPTH FT.	WATER	LITHOLOGY	WELL CONSTRUCTION
					0-2.5' QP, Fill, Sand w/ gravel some clay	Flush mount Manhole 0-16" cement
			2		2.5-4.5' Green Sand, med	3"-2' PVC Tube - 2" 16"-20" Bentonite Seal 20"-12' Sand Pack 2'-12' PVC Screen
			4		4.5-6.5 Orange Sand, med moist.	
			6	∓	6.5-8.5' Brownsand, Some clay dry	
			8		8.5-12' Tan Sand, med, wet.	
			10			
			12			12' Total Depth
			14			
			16			



DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - ~~32987~~ 30958
Atlas Sheet Coordinates 29 : 13 : 822

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg 2562 MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/19/94
Regulatory Program Requiring Well UST Case I.D. # 93-8-16-1243-26
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 12½ ft.
Well finished to 12½ ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☑ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? ☑ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	12½'	4"	20 SLOT PVC
Tail Piece				
Gravel Pack	1'	12½'		#2
Annular Seal/Grout	0	1'		Geonite
Method of Grouting	Pour			

Static water level after drilling 3 ft.
Water level was measured using Tape
Well was developed for 1 hours at 10 gpm
Method of development Pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B-80
Name of Driller Michael E Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1421
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGI

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6" Top Soil
6"-3' dark brown sand med to fine
3'-12½' dark brown clay and coarse sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E Beck Date 7-20-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

8-11

MONITORING WELL RECORD

Well Permit No. 29 - 30959
Atlas Sheet Coordinates 29 : 13 : 822

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg 2562 MW-2
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7/6/84
Regulatory Program Requiring Well UST Case I.D. # 93-8-16-1243-26
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☐ above grade ☑ flush mounted
If finished above grade, casing height (stick up) above land surface ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	6"	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	15'	4"	20 Slot PVC
Tail Piece				
Gravel Pack	1'	15'		#2
Annular Seal/Grout	6"	1'		Geoxite
Method of Grouting	Pour			

Static water level after drilling 3½ ft.
Water level was measured using Tape
Well was developed for 1 hours at gpm
Method of development Pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B-80
Name of Driller Michael E Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1421
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGY

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-1' Asphalt
1'-4' med To Fine Sand
4'-5' Green Clay + Sand
5'-15' med To Coarse dark Brown Sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E Beck Date 6-7-84

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

75

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

8-11

MONITORING WELL RECORD

30960

Well Permit No. 29 - ~~30956~~
Atlas Sheet Coordinates 29 : 13 : 822

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg 2562 MW-3
County ~~MONMOUTH~~ Municipality ~~OCEANPORT BORO~~ Lot No. ~~N/A~~ Block No. ~~N/A~~
Address

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 7 / 6 / 94
Regulatory Program Requiring Well ~~UST~~ Case I.D. # ~~93-8-16-1243-26~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☐ above grade ☑ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☑ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	6"	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	15'	4"	20 Slot PVC
Tail Piece				
Gravel Pack	1'	15'		#2
Annular Seal/Grout	6"	1'		Bentonite
Method of Grouting	Pour			

Static water level after drilling 3 1/2 ft.
Water level was measured using Tape
Well was developed for 1 hours at ____ gpm
Method of development Pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity ____ gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B-80
Name of Driller Michael E Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1421
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGI

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-1' Asphalt
1'-4' Med To Fine Sand
4'-5' Green Clay
5-15' Med To Coarse Brown Sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E Beck Date 7-6-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

727

MONITORING WELL RECORD

Well Permit No. 29 - 30969
Atlas Sheet Coordinates 29 : 13 : 816

OWNER IDENTIFICATION - Owner U S ARMY FORT MONMOUTH
Address
City FORT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg 2700.4 MW-1
County MONMOUTH Municipality OCEANPORT BORO Lot No. N/A Block No. N/A
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 7 / 19 / 99
Regulatory Program Requiring Well UST Case I.D. # 92-3-7-1047-43
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 20 ft.
Well finished to 20 ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☐ above grade ☑ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☑ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	6"	10'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	10'	20'	4"	20SLOT PVC
Tail Piece				
Gravel Pack	8'	20'		#2
Annular Seal/Grout	6"	8'		Genovite Portland
Method of Grouting	Tremie			

Static water level after drilling 15 ft.
Water level was measured using Tape
Well was developed for 1 hours at 10 gpm
Method of development Pump
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity ____ gpm
Pump type:
Drilling Method Auger
Drilling Fluid Type of Rig B-80
Name of Driller Michael E Beck
Health and Safety Plan submitted? ☑ Yes ☐ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 1921
Name of Drilling Company TYREE ENVIRONMENTAL TECHNOLOGI

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6" Top Soil
6"-16' Yellow Red To Coarse Sand + Clay
16'-20' Lite Brown Coarse Sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Michael E Beck Date 7-20-99

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

6-30

MONITORING WELL RECORD

Well Permit No. 29 - 31238
Atlas Sheet Coordinates 29: 13: 828

OWNER IDENTIFICATION - Owner MIDMONMOUTH REALTY ASSOC
Address 75 EISENHOWER PARKWAY
City ROSELAND State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. P1
County MONMOUTH Municipality TINTON FALLS BO Lot No. 13.02 Block No. 114
Address 1 COLDSTREAM WAY, TINTON FALLS

TYPE OF WELL (as per Well Permit Categories) PIEZOMETER Date well completed 5 / 19 / 94
Regulatory Program Requiring Well ISRA SITE Case I.D. # 93455
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Environmental Waste Management Tele. # 633-7900

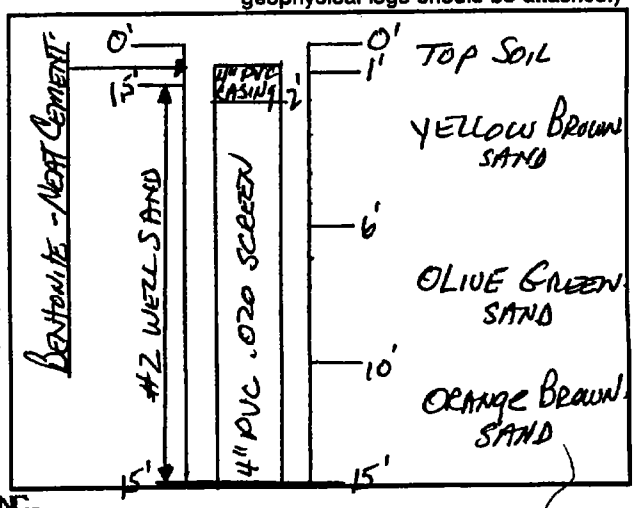
WELL CONSTRUCTION

Total depth drilled 15' ft.
Well finished to 15' ft.
Borehole diameter:
Top 8" in.
Bottom 8" in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface _____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	6"	2'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2'	15'	4"	.020 slot PVC
Tail Piece				
Gravel Pack	1.5'	15'		#2 Sand
Annular Seal/Grout	6"	1.5'		Bentonite/Neat Cement
Method of Grouting	Gravity			

Static water level after drilling 5' ft.
Water level was measured using Electric Tape
Well was developed for _____ hours at _____ gpm
Method of development ~~Air~~ Sub Pump
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity _____ gpm
Pump type: _____
Drilling Method Air Rotary
Drilling Fluid _____ Type of Rig TH60
Name of Driller John Nemetz
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1330
Name of Drilling Company SBI ENVIRONMENTAL INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature John Nemetz Date 6-21-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. _____ - 29 31239
Atlas Sheet Coordinates _____ : 29 : 13 828

OWNER IDENTIFICATION - Owner ~~MIDMONMOUTH REALTY ASSOC~~
Address 75 EISENHOWER PARKWAY
City ROSELAND State NJ Zip Code _____

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-4
County MONMOUTH Municipality TINTON FALLS BO Lot No. _____ Block No. 13.02 114
Address 1 COLDSTREAM WAY, TINTON FALLS

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 5 / 19 / 94
Regulatory Program Requiring Well ~~ISRA SITE~~ Case I.D. # ~~93455~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Environmental Waste Management Tele. # 633-7900

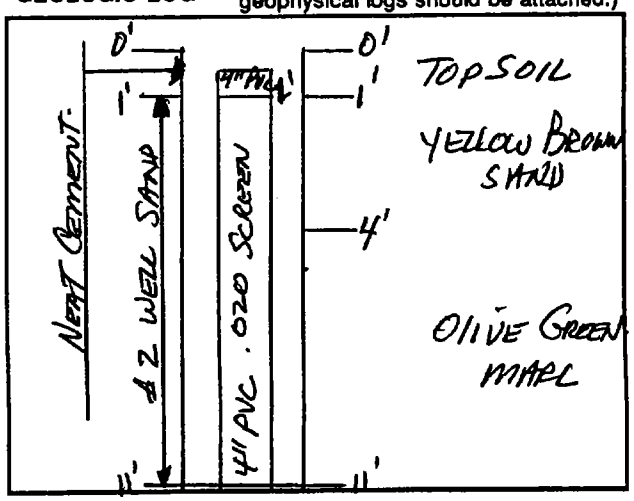
WELL CONSTRUCTION

Total depth drilled 11' ft.
Well finished to 11' ft.
Borehole diameter:
Top 8" in.
Bottom 8" in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface _____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	6"	1'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	1'	10'	4"	.020 slot PVC
Tail Piece				
Gravel Pack	1'	10'		#2 Well Sand
Annular Seal/Grout	6"	1'		Neat Cement
Method of Grouting	Gravity			

Static water level after drilling 2' ft.
Water level was measured using Electric Tape
Well was developed for ½ hours at 2 gpm
Method of development Sub Pump
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity _____ gpm
Pump type: _____
Drilling Method Air Rotary
Drilling Fluid _____ Type of Rig TH60
Name of Driller John Nemetz
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1330
Name of Drilling Company SBI ENVIRONMENTAL INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature John Nemetz Date 6-21-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 312410
Atlas Sheet Coordinates 29 : 13 : 828

OWNER IDENTIFICATION - Owner MIDMONMOUTH REALTY ASSOC
Address 75 EISENHOWER PARKWAY
City ROSKLAND State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 6
County MONMOUTH Municipality TINTON FALLS BO Lot No. 13.02 Block No. 114
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 5 / 19 / 94
Regulatory Program Requiring Well ISRA SITE Case I.D. # 93455

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Environmental Waste Management Tele. # 633-7900

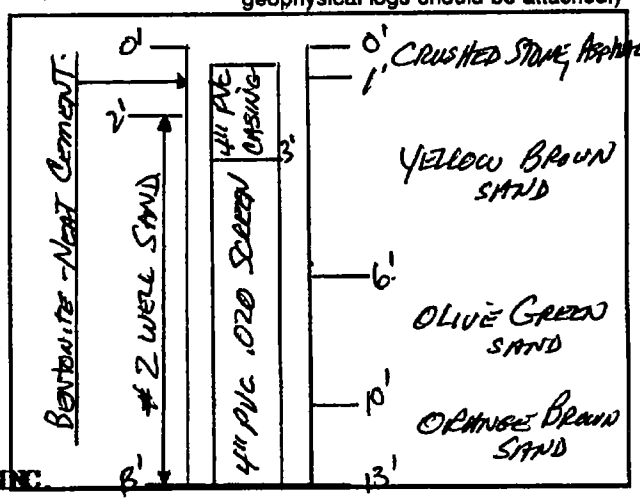
WELL CONSTRUCTION

Total depth drilled 13' ft.
Well finished to 13' ft.
Borehole diameter:
Top 8" in.
Bottom 8" in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface _____ ft.
Was steel protective casing installed? ☐ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	6"	3'	4"	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	3'	13'	4"	.020 slot PVC
Tail Piece				
Gravel Pack	2'	13'		#2 Sand
Annular Seal/Grout	6"	2'		Bentonite Neat Cement
Method of Grouting	Gravity			

Static water level after drilling 5' ft.
Water level was measured using electric tape
Well was developed for ½ hours at 2 gpm
Method of development Sub Pump
Was permanent pumping equipment installed? ☐ Yes ☐ No
Pump capacity _____ gpm
Pump type: _____
Drilling Method Air Rotary
Drilling Fluid _____ Type of Rig TH60
Name of Driller John Nemetz
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1330
Name of Drilling Company SBI ENVIRONMENTAL INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature John Nemetz Date 6-21-94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

830

MONITORING WELL RECORD

Well Permit No. 29 - 31561
Atlas Sheet Coordinates 29 : 13 : 599

OWNER IDENTIFICATION - Owner EATONTOWN BOROUGH OF
Address 47 N. BROAD ST.
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 1
County MONMOUTH Municipality EATONTOWN BORO Lot No. 2 Block No. 54
Address 131 Lewis St. South Eatontown, NJ

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 8 / 16 / 94
Regulatory Program Requiring Well UST Case I.D. # 94-1-31-1620-21
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) NA Tele. #

WELL CONSTRUCTION

Total depth drilled 13.5 ft.
Well finished to 13.5 ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	3.5	4	Sch 40 PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	3.5	13.5	4	.20 Slot PVC
Tail Piece				
Gravel Pack	2.5	13.5	8	#2 Well Sand
Annular Seal/Grout	0	2.5	8	Portland
Method of Grouting	Gravity			

Static water level after drilling 3.5 ft.
Water level was measured using Tape
Well was developed for 1 hours at 1 gpm
Method of development Centrifugal
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity ____ gpm
Pump type: ____
Drilling Method Auger
Drilling Fluid ____ Type of Rig ____
Name of Driller William Lovenberg
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 1610
Name of Drilling Company GARDEN STATE ENVIRONMENTAL DRG

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'-4"= Grass and Top Soil
4"-6'= Gray Course Silty Sand
6'-9'= Green silty Sand
9'-13.5'= Green Clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature William Lovenberg Date 8/19/94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

830

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 31562
Atlas Sheet Coordinates 29 : 13 : 599

OWNER IDENTIFICATION - Owner EATONTOWN BOROUGH OF
Address 47 N. BROAD ST.
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 2
County MONMOUTH Municipality EATONTOWN BORO Lot No. 2 Block No. 54
Address 131 Lewis St. South Eatontown, NJ

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 08 / 16 / 94
Regulatory Program Requiring Well UST Case I.D. # 94-3-30-1349-01
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) NA Tele. #

WELL CONSTRUCTION

Total depth drilled 12'9" ft.
Well finished to 12'9" ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	2' 9"	4	Sch. 40 PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2' 9"	12' 9"	4	.20 Slot PVC
Tail Piece				
Gravel Pack	2	12' 9"	8	#2 Well Sand
Annular Seal/Grout	0	2	8	Portland
Method of Grouting	Gravity			

Static water level after drilling 2' 9" ft.
Water level was measured using Tape
Well was developed for 1 hours at 1 gpm
Method of development Centrifugal
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity ____ gpm
Pump type: ____
Drilling Method Auger
Drilling Fluid ____ Type of Rig ____
Name of Driller William Lovenberg
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1610
Name of Drilling Company GARDEN STATE ENVIRONMENTAL DLG

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'-2"= Asphalt
2"-2'= Gray Course Sand
2'-8'= Green Silty Sand
8'-12'9"= Green Clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature William Lovenberg Date 8/19/94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

830

MONITORING WELL RECORD

Well Permit No. 29 - 31563
Atlas Sheet Coordinates 29 : 13 : 599

OWNER IDENTIFICATION - Owner ~~EATONTOWN BOROUGH OF~~
Address ~~47 N. BROAD ST.~~
City ~~EATONTOWN~~ State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 1
County ~~MONMOUTH~~ Municipality ~~EATONTOWN BORO~~ Lot No. ~~32~~ Block No. ~~12~~
Address 131 North Lewis St.

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 8 / 15 / 94
Regulatory Program Requiring Well ~~UST~~ Case I.D. # ~~94-2-4-0816-37~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) NA Tele. #

WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.
Borehole diameter:
Top 8 in.
Bottom 8 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	3	4	Sch 40 PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	3	13	4	.20 Slot PVC
Tail Piece				
Gravel Pack	2	13	8	#2 Well Sand
Annular Seal/Grout	0	2	8	Portland
Method of Grouting	Gravity			

Static water level after drilling 3.5 ft.
Water level was measured using Tape
Well was developed for 1 hours at 2 gpm
Method of development Centrifugal
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity ____ gpm
Pump type: ____
Drilling Method Auger
Drilling Fluid ____ Type of Rig ____
Name of Driller William Lovenbwerg
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1610
Name of Drilling Company GARDEN STATE ENVIRONMENTAL DLG

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'-4"= Asphalt
4"-8"= 3/8" Road Stone
8"-3'= Orange silty sand
3'-9'= green saturated sands
9'-13'= ~~Grenn~~ Green Sandy Clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature William Lovenbwerg Date 8/19/94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

9/27/94

PAGE 1 OF 2

WELL RECORD

Well Permit No. 29 — 32158
Atlas Sheet Coordinates 29 : 13 : 587

OWNER IDENTIFICATION - Owner FORT MONMOUTH GOLF COURSE
Address TINTON AVE.
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. ISW #6
Address
County MONMOUTH Municipality EATONTOWN BORO Lot No. NA Block No. NA

WELL USE WITHDRAWAL Status IN USE

WATER USE IRRIGATION Average 8080 gals. daily Maximum — gals. daily

WELL CONSTRUCTION Date well completed 10 / 20 / 94
BOREHOLE DIMENSIONS Depths: Total 50 ft. Finished 50 ft.
Diameter: Top 8.5 in. Bottom 8.5 in.
Land Surface Elevation at well 40 ft. Elevation was determined using TOPOGRAPHIC MAP
Casing Height (stick-up) above land surface 0 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		15	4.0	PVC SCHEDULE 40
Casing 2				
Casing 3				
Screen 1	15	30	4.0	PVC SCHEDULE 40 / 0.020
Screen 2				
Tail Piece		5.0	4.0	
Gravel Pack	13.5	36.5	8.5	BLENDED 0.025
Grout	SURFACE	13.5		30 MESH BENTONITE
Grouting Method	PRESSURE TREMIE			

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date 10 / 20 / 94
Static water-level before pumping 7 ft. below land surface. Water level 40 ft. below land surface after ____ hrs. of pumping.
Water level was measured using ESTIMATED Drawdown 33 ft.
Discharge rate measured using MEASURED CONTAINER Discharge Rate 20 gals. per min.
Well was pumped using AIR LIFT Specific Capacity 0.6 gals. per min. per ft. of drawdown
Observed effects on nearby wells None
Water Quality (taste, odor, color, etc.) Good

PERMANENT PUMPING EQUIPMENT NOT INSTALLED AT THIS TIME Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address P.O. BOX 6
City PARMINGDALE State NJ Zip Code 07727
Name of Driller DAVID PRIMOST License No. M1041

Signature of Contractor [signature] Date 10 / 30 / 94

COPIES: White - DEPE 11/01/94 Canary - Driller 11/01/94 Pink - Owner 11/01 Goldenrod - Health Dept. 11/01/94

WELREC 107 0492

9/27/94

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

WELL RECORD

Well Permit No. 29 - 32158
29 13597

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☒ Yes ☐ No ISW#6

Drilling Method MUD ROTARY

Type of Rig MOBILE B47

Aquifer/Geo. Fm. KNS

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ____ / ____ / ____

LOG		Thick.	Lith.	Fm.
0-10	GRN CLAY W/ GREEN SAND			
10-30	MDM T, FINE BLACK SAND			
30-45	FINE BLACK SAND W/ SILT			
45-50	W/ FINE BLACK SAND, VERY SILTY, GRAY/BROWN CLAY @ BOTTOM			

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

11/01/94 11/01/94 11/01/94

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

9/27/94

WELL RECORD

Well Permit No. 29 – 32159
Atlas Sheet Coordinates 29 : 13 : 597

OWNER IDENTIFICATION - Owner FORT MONMOUTH GOLF COURSE
Address TINTON AVE.
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. ISW #2
Address
County MONMOUTH Municipality EATONTOWN BORO Lot No. NA Block No. NA

WELL USE WITHDRAWAL Status IN USE

WATER USE IRRIGATION Average 8000 gals. daily Maximum — gals. daily

WELL CONSTRUCTION Date well completed 10 / 27 / 94
BOREHOLE DIMENSIONS Depths: Total 50 ft. Finished 50 ft.
Diameter: Top 8.5 in. Bottom 8.5 in.
Land Surface Elevation at well 40 ft. Elevation was determined using TOPOGRAPHIC MAP
Casing Height (stick-up) above land surface 0 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		20	4.0	Schedule 40 PVC
Casing 2				
Casing 3				
Screen 1	18.5	30	4.0	Schedule 40 PVC / 0.020
Screen 2				
Tail Piece		1.5	4.0	
Gravel Pack	15	35	8.5	0.025 BLENDED
Grout	SURFACE	15		30 MESH BENTONITE
Grouting Method	PRESSURE THRU TREMIE			

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date 10 / 27 / 94
Static water-level before pumping 6 ft. below land surface. Water level 40 ft. below land surface after 1½ hrs. of pumping.
Water level was measured using ~~[illegible]~~ ESTIMATED Drawdown 34 ft.
Discharge rate measured using MEASURED CONTAINER Discharge Rate 20 gals. per min.
Well was pumped using AIR LIFT Specific Capacity 0.6 gals. per min. per ft. of drawdown
Observed effects on nearby wells none
Water Quality (taste, odor, color, etc.) GOOD

PERMANENT PUMPING EQUIPMENT NOT INSTALLED AT THIS TIME Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ Installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address P.O. BOX 6
City PARAMUS, NJ State NJ Zip Code 07727
Name of Driller DAVID PRIMOST License No. M1041

Signature of Contractor [signature] Date 10 / 30 / 94

COPIES: White - DEPE 11/01/94 Canary - Driller 11/01/94 Pink - Owner 10/01 Goldenrod - Health Dept. 11/01/94

9/27/94

DWR-139
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

WELL RECORD

Well Permit No. 29 - 32159
29 13597

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☒ Yes ☐ No 1SW#2

Drilling Method MUD ROTARY

Type of Rig MOBILE B-47

Aquifer/Geo. Fm. KNS

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ___ / ___ / ___

LOG	Thick.	Lith.	Fm.
0-15 Clay w/ GREEN SAND			
15-35 MED & FINE BLACK SAND			
35-45 FINE BLACK SAND w/ SILT			
45-50 v/silty Black Sand, Brown Clay @ Bottom.			

GWPI No. ___ - _____ NJPDES No. _____ - ___

Latitude ___ ° ___ ' ___ " Longitude ___ ° ___ ' ___ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ___ / ___ / ___

11/01/94 11/01/94 11/01/94

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

9/27/94
PAGE 1 OF 2

11-4

WELL RECORD

Well Permit No. 29 – 32160
Atlas Sheet Coordinates 29 : 13 : 597

OWNER IDENTIFICATION - Owner FORT MONMOUTH GOLF COURSE
Address TINTON AVE.
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No. ISW #3
Address
County MONMOUTH Municipality EATONTOWN BORO Lot No. NA Block No. NA

WELL USE WITHDRAWAL Status IN USE

WATER USE IRRIGATION Average 8000 gals. daily Maximum — gals. daily

WELL CONSTRUCTION Date well completed 10 / 19 / 94
BOREHOLE DIMENSIONS Depths: Total 50 ft. Finished 50 ft.
Diameter: Top 8.5 in. Bottom 8.5 in.
Land Surface Elevation at well 40 ft. Elevation was determined using TOPOGRAPHIC MAP
Casing Height (stick-up) above land surface 0 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		18.5	4.0	PVC SCH 40
Casing 2				
Casing 3				
Screen 1	18.5	30	4.0	PVC SCH 40 / 0.020
Screen 2				
Tail Piece		1.5	4.0	
Gravel Pack	15	35	8.5	0.025 BLENDED
Grout	SURFACE	15		30 MESH BENTONITE
Grouting Method	PRESSURE, THRU TREMIE			

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date 10 / 19 / 94
Static water-level before pumping 8 ft. below land surface. Water level 40 ft. below land surface after 1/2 hrs. of pumping.
Water level was measured using ~~[illegible]~~ ESTIMATED Drawdown 32 ft.
Discharge rate measured using MEASURED CONTAINER Discharge Rate 16 gals. per min.
Well was pumped using AIR LIFT Specific Capacity 0.5 gals. per min. per ft. of drawdown
Observed effects on nearby wells NONE
Water Quality (taste, odor, color, etc.) GOOD

PERMANENT PUMPING EQUIPMENT NOT INSTALLED AT THIS TIME Installed by _____ Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address P.O. BOX 6
City FARMINGDALE State NJ Zip Code 07727
Name of Driller DAVID PRIMOST License No. M1041

Signature of Contractor [signature] Date 10 / 30 / 94

COPIES: White - DEPE 11/01/94 Canary - Driller 11/01/94 Pink - Owner 11/01 Goldenrod - Health Dept. 11/01/94

WELREC 107 0496

9/27/94

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

WELL RECORD

Well Permit No. 29 - 32160
29 13597

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☒ Yes ☐ No 1SW#3

Drilling Method MUD ROTARY

Type of Rig MOBILE B-47

Aquifer/Geo. Fm. KNS

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ____ / ____ / ____

LOG

	Thick.	Lith.	Fm.
0-10 Clay w/ GREEN SAND			
10-15 GREEN Clay			
15-40 MOM & FINE BLACK SAND			
40-45 FINE BLACK SAND w/ SILT			
45-50 V. Silty Black SAND, BROWN Clay @ Bottom			

GWPI No. ____ - _____

NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ "

Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ____ / ____ / ____

11/01/94 11/01/94 11/01/94

DWR-139
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

11-4

9/07/94

WELL RECORD

Well Permit No. 29 – 32161
Atlas Sheet Coordinates 29 : 13 : 597

OWNER IDENTIFICATION - Owner FORT MONMOUTH GOLF COURSE
Address TINTON AVE.
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. ISW # 4
Address
County MONMOUTH Municipality EATONTOWN BORO Lot No. NA Block No. NA

WELL USE WITHDRAWAL Status IN USE

WATER USE IRRIGATION Average 8000 gals. daily Maximum — gals. daily

WELL CONSTRUCTION Date well completed 10 / 26 / 94
BOREHOLE DIMENSIONS Depths: Total 45 ft. Finished 45 ft.
Diameter: Top 8.5 in. Bottom 8.5 in.
Land Surface Elevation at well 40 ft. Elevation was determined using TOPOGRAPHIC MAP
Casing Height (stick-up) above land surface 0 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		15	4.0	Schedule 40 PVC
Casing 2				
Casing 3				
Screen 1	15	30	4.0	Schedule 40 PVC / 0.020
Screen 2				
Tail Piece				.025 BLEND GRAVEL PACK
Gravel Pack	13.5	31.5	8.5	30 MESH BENTONITE
Grout	SURFACE	13.5		
Grouting Method	PRESSURE, THRU TREMIE			

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date 10 / 26 / 94
Static water-level before pumping 7 ft. below land surface. Water level 36 ft. below land surface after 1/2 hrs. of pumping.
Water level was measured using ~~[illegible]~~ ESTIMATED Drawdown 29 ft.
Discharge rate measured using MEASURED CONTAINER Discharge Rate 15 gals. per min.
Well was pumped using AIR LIFT Specific Capacity 0.5 gals. per min. per ft. of drawdown
Observed effects on nearby wells None
Water Quality (taste, odor, color, etc.) GOOD

PERMANENT PUMPING EQUIPMENT NOT INSTALLED AT THIS TIME Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address P.O. BOX 6
City FARMINGDALE State NJ Zip Code 07727
Name of Driller DAVID PRIMOST License No. M10-11

Signature of Contractor [signature] Date 10 / 30 / 94

COPIES: White - DEPE 11/01/94 Canary - Driller 11/01/94 Pink - Owner 10/01/94 Goldenrod - Health Dept. 11/01/94

9/27/94

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

WELL RECORD

Well Permit No. 29 - 32161
29 13597

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☒ Yes ☐ No ISW #4

Drilling Method MUD ROTARY

Type of Rig MOBILE B 47

Aquifer/Geo. Fm. KNS

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ___ / ___ / ___

LOG	Thick.	Lith.	Fm.
0-10 clay w/ green Sand			
10-30 MED & FINE Black Sand w/Sm all Shells			
30-40 FINE Black Sand w/Silt.			
40-45 v/Silty Black Sand; Brown Clay @ Bottom			

GWPI No. ___ - _____

NJPDES No. _____ - ___

Latitude ___ ° ___ ' ___ "

Longitude ___ ° ___ ' ___ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ___ / ___ / ___

11/01/94 11/01/94 11/01/94

WELREC 107 0499

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

11-4

9/27/94
PAGE 1 OF 1

WELL RECORD

Well Permit No. 29 – 32162
Atlas Sheet Coordinates 29 : 13 : 597

OWNER IDENTIFICATION - Owner FORT MONMOUTH GOLF COURSE
Address TINTON AVE.
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. ISW #5
Address
County MONMOUTH Municipality EATONTOWN BORO Lot No. NA Block No. NA

WELL USE WITHDRAWAL Status IN USE

WATER USE IRRIGATION Average 8000 gals. daily Maximum — gals. daily

WELL CONSTRUCTION Date well completed 10 / 27 / 94
BOREHOLE DIMENSIONS Depths: Total 48 ft. Finished 48 ft.
Diameter: Top 8.5 in. Bottom 8.5 in.
Land Surface Elevation at well 40 ft. Elevation was determined using TOPOGRAPHIC MAP
Casing Height (stick-up) above land surface 0 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		16	4.0	SCHEDULE 40, PVC
Casing 2				
Casing 3				
Screen 1	16	30	4.0	SCHEDULE 40 PVC / 0.020
Screen 2				
Tail Piece		2	4.0	
Gravel Pack	14	34	8.5	0.075 BLENDED
Grout	SURFACE	14		30 MESH BENTONITE
Grouting Method	PRESSURE THRU TREMIE			

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date 10 / 27 / 94
Static water-level before pumping 6 ft. below land surface. Water level 38 ft. below land surface after ____ hrs. of pumping.
Water level was measured using ESTIMATED Drawdown 32 ft.
Discharge rate measured using MEASURED CONTAINER Discharge Rate 16 gals. per min.
Well was pumped using AIR LIFT Specific Capacity 0.5 gals. per min. per ft. of drawdown
Observed effects on nearby wells None
Water Quality (taste, odor, color, etc.) Good

PERMANENT PUMPING EQUIPMENT NOT INSTALLED AT THIS TIME Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address P.O. BOX 6
City FARMINGDALE State NJ Zip Code 07727
Name of Driller DAVID PRIMOST License No. M10411

Signature of Contractor David Primost Date 10 / 30 / 94

COPIES: White - DEPE 11/01/94 Canary - Driller 11/01/94 Pink - Owner 11/01 Goldenrod - Health Dept. 11/01/94

9/27/94

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

WELL RECORD

Well Permit No. 29 - 32162
29 13597

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☒ Yes ☐ No ISW #5

Drilling Method MUD ROTARY

Type of Rig B-47 MOBILE DRILL

Aquifer/Geo. Fm. KNS

LOG

0-10 GREEN Clay w/ GREEN SAND
10-30 MED & FINE BLACK SAND w/some shells
30-40 FINE BLACK SAND w/silt
40-48 V. Silty BLACK SAND, BROWN Clay @ Bottom

DEP USE ONLY

Storet Hydrogeo Code
USGS Hydrogeo Code
Depth to Bedrock ft.
Bedrock Lith. Code
Bedrock Fm. Code

Completed by
Date / /

Thick.	Lith.	Fm.

GWPI No. -
NJPDES No. -

Latitude ° ' "
Longitude ° ' "
Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"
USGS Quadrangle
Drainage Basin Code
County/Municipality Code
OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by
Date / /

11/01/94 11/01/94 11/01/94

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

11-4

PAGE 1 OF 2

WELL RECORD

Well Permit No. 29 - 32163
Atlas Sheet Coordinates 29 : 13 : 597

OWNER IDENTIFICATION - Owner FORT MONMOUTH GOLF COURSE
Address TINTON AVE
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION - If not the same owner please give address. Owner's Well No. ISW #1
Address
County MONMOUTH Municipality EATONTOWN BORO Lot No. N/A Block No. N/A

WELL USE WITHDRAWAL Status IN USE

WATER USE IRRIGATION Average 8000 gals. daily Maximum — gals. daily

WELL CONSTRUCTION Date well completed 10 / 20 / 94
BOREHOLE DIMENSIONS Depths: Total 45 ft. Finished 45 ft.
Diameter: Top 8.5 in. Bottom 8.5 in.
Land Surface Elevation at well 40 ft. Elevation was determined using TOPOGRAPHIC MAP
Casing Height (stick-up) above land surface 0 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		15	4.0	SCHEDULE 40 PVC
Casing 2				
Casing 3				
Screen 1	15	30	4.0	SCHEDULE 40 PVC / 0.020
Screen 2				
Tail Piece				
Gravel Pack	13.5	31.5	8.5	.025 BLENDED
Grout	SURFACE	13.5		30 MESH BENTONITE
Grouting Method	PRESSURE, THRU TREMIE			

WELL FLOWS NATURALLY _____ gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date 10 / 20 / 94
Static water-level before pumping 6 ft. below land surface. Water level 36 ft. below land surface after 1/2 hrs. of pumping.
Water level was measured using ~~WATER GAGE~~ ESTIMATED Drawdown 30 ft.
Discharge rate measured using MEASURED CONTAINER Discharge Rate 12 gals. per min.
Well was pumped using AIR LIFT Specific Capacity 0.4 gals. per min. per ft. of drawdown
Observed effects on nearby wells NONE
Water Quality (taste, odor, color, etc.) GOOD

PERMANENT PUMPING EQUIPMENT NOT INSTALLED AT THIS TIME Installed by _____ Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footpiece _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor PICKWICK WELL DRILLING
Address P.O. BOX 6
City PARMINGDALE, NJ State NJ Zip Code 07727
Name of Driller DAVID PRIMOST License No. M 10641

Signature of Contractor [signature] Date 10 / 30 / 94

COPIES: White - DEPE 11/01/94 Canary - Driller 11/01/94 Pink - Owner 11/01/94 Goldenrod - Health Dept. 11/01/94

9/20/94

DWR-138
8/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

WELL RECORD

Well Permit No. 29 - 32163
29 13 597

Driller: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☒ Yes ☐ No PSW #1

Drilling Method MUD ROTARY

Type of Rig MOBILE B-47

Aquifer/Geo. Fm. KNS

DEP USE ONLY

Storet Hydrogeo Code _____
USGS Hydrogeo Code _____
Depth to Bedrock _____ ft.
Bedrock Lith. Code _____
Bedrock Fm. Code _____

Completed by _____
Date ____ / ____ / ____

LOG	Thick.	Lith.	Fm.
0-10 Gray clay w/ green sand			
10-30 Med & fine black sand w/ small shells.			
30-40 Fine black sand w/ silt			
40-45 V. silty black sand, brown clay @ bottom.			

GWPI No. ____ - _____ NJPDES No. _____ - ____

Latitude ____ ° ____ ' ____ " Longitude ____ ° ____ ' ____ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____ County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data
☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____ Date ____ / ____ / ____

11/01/94 11/01/94 11/01/94

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32590
Atlas Sheet Coordinates 29 : 13 : 824

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. CN01 MW26
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 12/19/94
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 16 ft.
Well finished to 15 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	5	4	flushjoint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	15	4	fij .010 slot pvc
Tail Piece				
Gravel Pack	4	16		#1 Morie
Annular Seal/Grout	2	4		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 9.0 ft.
Water level was measured using m-scope
Well was developed for 2 hours at 1.5 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig CME 55
Name of Driller Wellington Reeve
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J 1455
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-16'	Yellowish light brown sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Wellington Reeve (Jr) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32592
Atlas Sheet Coordinates 29 : 13 : 824

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 28
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 12/19/94
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	5	4	flushjoint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	15	4	f.j. .010 slot pvc
Tail Piece				
Gravel Pack	3	15		#1 Morie
Annular Seal/Grout	0	3		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 7.5 ft.
Water level was measured using m-scope
Well was developed for 2.0 hours at 1.5 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-57
Name of Driller Steve Burger
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JD 1624
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-.5'	Brown sandy silt
.5'-6'	Orange/olive brown sand
6'-8'	Olive sand
8'-15'	Yellow brown sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steve Burger (qp) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32593
Atlas Sheet Coordinates 29 : 13 : 824

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELEM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 29
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 12/19/94
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	5	4	fj. pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	15	4	fj. .010 slot pvc
Tail Piece				
Gravel Pack	3	15		#1 Morie
Annular Seal/Grout	0	3		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 7.5 ft.
Water level was measured using M-scope
Well was developed for 2 hours at 1.5 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-57
Name of Driller Steve Burger
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JD1624
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-.5'	Brown sandy silt
.5'-7.5'	Orange/olive brown sand, wet at 6'
7.5'-10'	Gray, brown sand
10'-15'	Olive brown sand silty sand at 15'.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steve Burger Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32594
Atlas Sheet Coordinates 29 : 13 : 824

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. CW2 MW30
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address Same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 12/16/94
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 17 ft.
Well finished to 16 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? [ ] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	6	4	flushjoint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	6	16	4	fj .010 slot pvc
Tail Piece				
Gravel Pack	4	17		#1 Morie
Annular Seal/Grout	0	4		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 10.0 ft.
Water level was measured using m-scope
Well was developed for 2 hours at 1.5 gpm
Method of development pumping
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig CME 55
Name of Driller Wellington Reeve
Health and Safety Plan submitted? [X] Yes [ ] No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J 1455
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-1'	Brown silty sand
1'-2'	Light brown sand with silt
2'-4'	Dark gray silty sand
4'-6'	Gray brown silty sand
6'-14'	Greenish gray sandy silt
14'-15'	Greenish gray sand
15'-17'	Dark gray silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Wellington Reeve (D) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32595
Atlas Sheet Coordinates 29 : 13 : 824

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 31
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address Same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 12/16/94
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	5	4	flushjoint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	15	4	fij. .010 slot pvc
Tail Piece				
Gravel Pack	3	15		#1 Morie
Annular Seal/Grout	0	3		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 5.5 ft.
Water level was measured using m-scope
Well was developed for 2 hours at 1.0 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid None Type of Rig Mobile B-57
Name of Driller Steve Burger
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JD 1624
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-3'	Brown silty sand
3'-7'	Gray silty sand
7'-13'	Gray green sand
13'-15'	Dark gray silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steve Burger Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32596
Atlas Sheet Coordinates 29 : 13 : 824

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address HLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 32
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,6.01 Block No. 1,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 12/16/94
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	5	4	flushjoint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	15	4	f.j. .010slot pvc
Tail Piece				
Gravel Pack	3	15		#1 Morie
Annular Seal/Grout	0	3		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 5.5 ft.
Water level was measured using M-Scope
Well was developed for 2 hours at 1.5 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-57
Name of Driller Steve Burger
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JD1624
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-4'	Brown silty sand
4'-6'	Gray silty sand
6'-8'	Brown gray silty sand
8'-9'	Olive/gray silty sand
9'-10'	Brown silty sand
10'-15'	Gray sandy silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steve Burger Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32597
Atlas Sheet Coordinates 29 : 13 : 824

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 33
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 12/15/94
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	5	4	flushjoint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	15	4	f.j. .010 slot pvc
Tail Piece				
Gravel Pack	3	15		#1 Morie
Annular Seal/Grout	0	3		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 5.5 ft.
Water level was measured using m-scope
Well was developed for 2 hours at 1.5 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-57
Name of Driller Steve Burger
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JD1624
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-4'	Brown silty sand
4'-7'	Gray silty sand
7'-15'	Green silty sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steve Burger (QA) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32598
Atlas Sheet Coordinates 29 : 13 : 824

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW08B
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/10/95
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? [X] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	5	4	flushjoint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	15	4	f.j. .010 slot pvc
Tail Piece				
Gravel Pack	3	15		#1 Morie
Annular Seal/Grout	0	3		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 3.5 ft.
Water level was measured using m-scope
Well was developed for 2.0 hours at 1 gpm
Method of development pumping
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-57
Name of Driller Steve Burger
Health and Safety Plan submitted? [X] Yes [ ] No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JD 1624
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-.5'	Brown sandy silt
.5'-15'	Yellow brown silty sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steve Burger (PD) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

E
CL

Well Permit No. 29 - 32599
Atlas Sheet Coordinates 29 : 13 : 831

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 34
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address Same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1 / 3 / 95
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15.5 ft.
Well finished to 14.5 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	4.5	4	flush joint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4.5	14.5	4	f.j. .010 slot pvc
Tail Piece				
Gravel Pack	3.5	15.5		#1 Marie
Annular Seal/Grout	0	3.5		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 6.0 ft.
Water level was measured using M-Scope
Well was developed for 2 hours at 1.0 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig CME 55
Name of Driller Wellington Reeve
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J 1455
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-2'	Brown silty sand with gravel
2'-4'	Grayish brown sand
4'-6'	olive green sand
6'-15.5'	Brown to light brown sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Wellington Reeve (QD) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

E
CL

MONITORING WELL RECORD

Well Permit No. 29 - 32620
Atlas Sheet Coordinates 29 : 13 : 831

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 35
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address Same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/3/95
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15.5 ft.
Well finished to 14.5 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	4.5	4	flush joint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4.5	14.5	4	f.j. .010 slot pvc
Tail Piece				
Gravel Pack	3.5	15.5		#1 Morie
Annular Seal/Grout	0	3.		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 3 ft.
Water level was measured using pressure
Well was developed for 2 hours at 1.0 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig CME 55
Name of Driller Wellington Reeve
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J1455
Name of Drilling Company JAMES C. ANDERSON ASSOC., INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-1'	Dark brown silty sand
1'-2'	Gray brown sand
2'-4'	Olive/gray/brown silty sand
4'-15.5'	Olive brown silty sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Wellington Reeve (D) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32601
Atlas Sheet Coordinates 29 : 13 : 831

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. CN09 MW36
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) Date well completed 1/4/95
Regulatory Program Requiring Well MONITORING OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15.5 ft.
Well finished to 14.5 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? [X] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	4.5	4	flush joint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4.5	14.5	4	f.j. .010 slot pvc
Tail Piece				
Gravel Pack	3.5	15.5		#1 Morie
Annular Seal/Grout	0	3.5		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 4 ft.
Water level was measured using M-Scope
Well was developed for 2 hours at 1.0 gpm
Method of development pumping
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig CME 55
Name of Driller Wellington Reeve
Health and Safety Plan submitted? [X] Yes [ ] No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J 1455
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-2'	Brown to black sand with silt
2'-6'	Light brown sand, wet 5'.
6'-10'	Orange brown sand
10'-12'	Yellow brown sand
12'-15.5'	Light brown sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Wellington Reeve (PE) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32002
Atlas Sheet Coordinates 29 : 13 : 831

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. B6 MW06B
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/10/95
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 14 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? [X] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	4	4	flush joint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4	14	4	f.j. .010 slot pvc
Tail Piece				
Gravel Pack	3.5	15		#1 Morie
Annular Seal/Grout	0	3.5		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 3.5 ft.
Water level was measured using m-scope
Well was developed for 2 hours at 2 gpm
Method of development pumping
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig CME 55
Name of Driller Wellington Reeve
Health and Safety Plan submitted? [X] Yes [ ] No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J1455
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-6'	Yellow light brown sand
6'-8'	Brown sand with silt
8'-15'	Black silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Wellington Reeve Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32803
Atlas Sheet Coordinates 29 : 13 : 831

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 09B
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address Same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/10/95
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	5	4	flush joint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	15	4	f.j. .010 slot pvc
Tail Piece				
Gravel Pack	3	15		#1 Morie
Annular Seal/Grout	0	3		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 5 ft.
Water level was measured using m-scope
Well was developed for 2.0 hours at 1.0 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B57
Name of Driller Steve Burger
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JD 1624
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-2'	Brown silty sand
2'-4'	Green-brown sand
4'-9.5'	Green-brown silty sand
9.5'-15'	Dark brown-black silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steve Burger (JD) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

E
CL

MONITORING WELL RECORD

Well Permit No. 29 - 32604
Atlas Sheet Coordinates 29 : 13 : 821

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. B7MW07B
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/10/95
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 16 ft.
Well finished to 15 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	5	4	flushjoint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	15	4	f.j. .010 slot pvc
Tail Piece				
Gravel Pack	4	16		#1 Morie
Annular Seal/Grout	0	4		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 7.5 ft.
Water level was measured using m-scope
Well was developed for 2 hours at 1.0 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig CME 55
Name of Driller Wellington Reeve
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. J1455
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-2.5'	Brown sand
2.5'-4'	yellow brown sand
4'-10'	olive sand
10'-16'	Light brown sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Wellington Reeve (QD) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 32605
Atlas Sheet Coordinates 29 : 13 : 821

OWNER IDENTIFICATION - Owner U. S. ARMY (DIRECTORATE
Address BLDG. 167 ATT: SELFM-PW-EV
City FT. MONMOUTH State NJ Zip Code 07703

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 10B
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1,1,8.01 Block No. 1,53,54
Address same as above

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/10/95
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 14.5 ft.
Well finished to 14.5 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☒ above grade ☐ flush mounted
If finished above grade, casing height (stick up) above land surface 2.0 ft.
Was steel protective casing installed? ☒ Yes ☐ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	4.5	4	flush joint pvc
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	4.5	14.5	4	fij .010 slot pvc
Tail Piece				
Gravel Pack	2.5	14.5		#1 Morie
Annular Seal/Grout	0	2.5		cement-bentonite
Method of Grouting	Tremie			

Static water level after drilling 3.5 ft.
Water level was measured using m-scope
Well was developed for 2.0 hours at 1 gpm
Method of development pumping
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity N/A gpm
Pump type: N/A
Drilling Method HSA
Drilling Fluid none Type of Rig Mobile B-57
Name of Driller Steve Burger
Health and Safety Plan submitted? ☒ Yes ☐ No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. JD 1624
Name of Drilling Company JAMES C. ANDERSON ASSOC. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

Depth	Description
0-4'	Brown/olive brown silty sand
4'-6'	Brown/yellow brown silty sand
6'-14.5'	Gray silty sand

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Steve Burger (JD) Date 4-19-95

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/94

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION

E
CL

MONITORING WELL RECORD

Well Permit No. 29- 32894
Atlas Sheet Coordinates 29 13: 843

OWNER IDENTIFICATION - Owner MONMOUTH CO. BLDGS. & GRO
Address 250 CENTER STREET
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-4
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK ROAD

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 3 / 29 / 95
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) PMK Tele. # 908-686-0044

WELL CONSTRUCTION

Total depth drilled 17 ft.
Well finished to 17 ft.
Borehole diameter:
Top 11 in.
Bottom 11 in.
Well was finished: [ ] above grade [x] flush mounted
If finished above grade, casing height (stick up) above land surface _____ ft.
Was steel protective casing installed? [ ] Yes [x] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	.8	5	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	17	4	#20 SLOT PVC
Tail Piece				
Gravel Pack	4	17		#2 GRAVEL
Annular Seal/Grout	0	4		NEAT CEMENT & BENTONITE
Method of Grouting	GRAVITY DISPLACEMENT			

Static water level after drilling 9 ft.
Water level was measured using M SCOPE
Well was developed for .30 hours at 2.5 gpm
Method of development SUBMERSIBLE PUMP
Was permanent pumping equipment installed? [ ] Yes [x] No
Pump capacity _____ gpm
Pump type: _____
Drilling Method HOLLOW STEM AUGER
Drilling Fluid _____ Type of Rig CT450
Name of Driller MICHAEL ASSANTE
Health and Safety Plan submitted? [ ] Yes [x] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 775
Name of Drilling Company PLAINFIELD WELL DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0 - 6"	BLACKTOP
6" - 15'	SAND & GRAVEL
15' - 17'	SAND & GRAVEL WITH SOME SILT

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature _____ Date 4/10/95

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/94

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION

MONITORING WELL RECORD

Well Permit No. 29 - 32895
Atlas Sheet Coordinates 29 : 13 : 843

OWNER IDENTIFICATION - Owner MONMOUTH CO. BLDGS. & GRO
Address 250 CENTER STREET
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-5
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK ROAD

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 3 / 29 / 95
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) PMK Tele. #908-686-0044

WELL CONSTRUCTION

Total depth drilled 17 ft.
Well finished to 17 ft.
Borehole diameter:
Top 11 in.
Bottom 11 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	.5	5	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	5	17	4	#20 SLOT PVC
Tail Piece				
Gravel Pack	4	17		#2 GRAVEL
Annular Seal/Grout	0	4		NEAT CEMENT
Method of Grouting	GRAVITY DISPLACEMENT			

Static water level after drilling 8 ft.
Water level was measured using M SCOPE
Well was developed for .20 hours at 2.5 gpm
Method of development SUBMERSIBLE PUMP
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity ____ gpm
Pump type: ____
Drilling Method HOLLOW STEM AUGER
Drilling Fluid ____ Type of Rig CT450
Name of Driller MICHAEL ASSANTE
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 775
Name of Drilling Company PLAINFIELD WELL DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0 - 6"	BLACKTOP
6" - 12'	SAND & GRAVEL
12' - 17'	SAND AND GRAVEL WITH SOME SILT

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature ____ Date 4/10/95

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/94

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION

511

CL

MONITORING WELL RECORD

Well Permit No. 29- 32896
Atlas Sheet Coordinates 29 13 843

OWNER IDENTIFICATION - Owner MONMOUTH CO. BLDGS. & GRO
Address 250 CENTER STREET
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SVE-1
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK ROAD

TYPE OF WELL (as per Well Permit Categories) GAS VENT Date well completed 3 / 30 / 95
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) PMK Tele. # 908-686-0044

WELL CONSTRUCTION

Total depth drilled 11 ft.
Well finished to 10 ft.
Borehole diameter:
Top 11 in.
Bottom 11 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

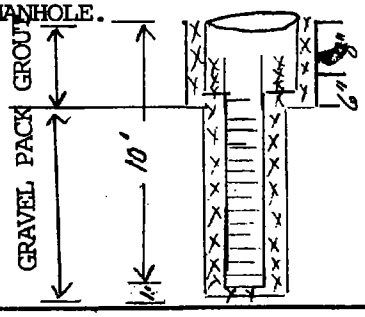
	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	.8		[redacted]
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	.8	10	4	PVC #20
Tail Piece				
Gravel Pack	.8	10		#2 GRAVEL
Annular Seal/Grout	0	.8		NEAT CEMENT
Method of Grouting	GRAVITY DISPLACEMENT			

Static water level after drilling 7 ft.
Water level was measured using M SCOPE
Well was developed for .30 hours at 2.5 gpm
Method of development SUBMERSIBLE PUMP
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity ____ gpm
Pump type:
Drilling Method HOLLOW STEM AUGER
Drilling Fluid ____ Type of Rig CT450
Name of Driller MICHAEL ASSANTE
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 775
Name of Drilling Company PLAINFIELD WELL DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0 - 6" BLACKTOP
6" - 11' SAND & GRAVEL

TOP 6" OF WELL SCREEN IS NOT SLOTTED. THAT PART OF SCREEN WAS GROUTED AS WAS FLUSH MOUNT MANHOLE.



I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature ____ Date 4/10/95

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/94

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION

E
CL

MONITORING WELL RECORD

Well Permit No. 29 - 32897
Atlas Sheet Coordinates 29 : 13 : 843

OWNER IDENTIFICATION - Owner MONMOUTH CO. BLDGS. & GRO
Address 250 CENTER STREET
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. AS-1
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK ROAD

TYPE OF WELL (as per Well Permit Categories) INJECTION Date well completed 3 / 30 / 95
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) PMK Tele. # 908-686-0044

WELL CONSTRUCTION

Total depth drilled 30 ft.
Well finished to 23 ft.
Borehole diameter:
Top 8.5 in.
Bottom 8.5 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface ____ ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	.5	18	2	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	18	23	2	#20 SLOT PVC
Tail Piece				
Gravel Pack	16	23		#2 GRAVEL
Annular Seal/Grout	0	16		NEAT CEMENT & BENTONITE
Method of Grouting	PRESSURE PUMPED			

Static water level after drilling 7 ft.
Water level was measured using M SCOPE
Well was developed for .30 hours at 1.5 gpm
Method of development SUBMERSIBLE PUMP
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity ____ gpm
Pump type: ____
Drilling Method HOLLOW STEM AUGER
Drilling Fluid ____ Type of Rig CT450
Name of Driller MICHAEL ASSANTE
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 775
Name of Drilling Company PLAINFIELD WELL DRILLING

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0 - 6" TOPSOIL
6" - 15' SAND & GRAVEL
15' - 23' SAND & GRAVEL W/SILT
23' - 30' SAND & LARGE GRAVEL
WELL WAS GROUTED WITH BENTONITE & NEAT CEMENT LAYER FROM 30' TO 23'

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature ____ Date 4/10/95

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/94

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION

MONITORING WELL RECORD

Well Permit No. 29 - 33763
Atlas Sheet Coordinates 29: 13: 597

OWNER IDENTIFICATION - Owner ~~US ARMY - FORT MONMOUTH~~
Address BLDG 167 DEH ENVIR
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. 2018 MW1
County ~~MONMOUTH~~ Municipality ~~OCEANPORT BORO~~ Lot No. ~~N/A~~ Block No. ~~N/A~~
Address BLDG 2018 DEH ENVIRONMENT FT. MONMOUTH

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 9/12/95
Regulatory Program Requiring Well ~~UST~~ Case I.D. # ~~90-09-05-1616~~
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 16 ft.
Well finished to 16 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: ☐ above grade ☒ flush mounted
If finished above grade, casing height (stick up) above land surface 0 ft.
Was steel protective casing installed? ☐ Yes ☒ No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0	4	4	PVC
Outer Casing (Not Protective Casing)	—	—	—	
Screen (Note slot size)	4	16	4	PVC 020
Tail Piece	—	—	—	
Gravel Pack	3	16	12	#2 Sand
Annular Seal/Grout	0	3	12	Bent Slurry
Method of Grouting	Tremie Pipe			

Static water level after drilling 6 ft.
Water level was measured using a Tape
Well was developed for .5 hours at 3 gpm
Method of development Mono
Was permanent pumping equipment installed? ☐ Yes ☒ No
Pump capacity NA gpm
Pump type: NA
Drilling Method HSA
Drilling Fluid NA Type of Rig A300
Name of Driller Gary Parent
Health and Safety Plan submitted? ☐ Yes ☒ No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 275
Name of Drilling Company GARY PARENT/SHORE DRIG. INC

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0 – 1' topsoil
1' – 5' Tan Sandy Silt
5' – 10' Modeled green/tan Silty clay
10' – 16' dark green silty clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 9/13/95

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/94

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION

E DMR

MONITORING WELL RECORD

Well Permit No. 29 - 34753
Atlas Sheet Coordinates 29 : 13 : 829

OWNER IDENTIFICATION - Owner ~~MID MONMOUTH REALTY~~
Address ~~1 COLDSTREAM WAY & PINE BROOK~~
City TINTON FALLS State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-1A
County MONMOUTH Municipality TINTON FALLS BO Lot No. 13B,1201 Block No. 114
Address ~~1 COLDSTREAM WAY & PINE BROOK~~

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 2/10/96
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 10.5 ft.
Well finished to 10.5 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 2.5 ft.
Was steel protective casing installed? [✓] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+2.5	.5	4	PVC
Outer Casing (Not Protective Casing)	—	—	—	
Screen (Note slot size)	.5	10.5	4	PVC 020
Tail Piece	—	—	—	
Gravel Pack	.25	10.5	12	#2 Sand
Annular Seal/Grout	0	.25	12	Bent Slurry
Method of Grouting	Tremie Pipe			

Static water level after drilling 1 ft.
Water level was measured using a tape
Well was developed for .5 hours at 3 gpm
Method of development Mixno
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity NA gpm
Pump type: NA
Drilling Method HSA
Drilling Fluid NA Type of Rig A300
Name of Driller Gary Parent
Health and Safety Plan submitted? [ ] Yes [X] No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1275
Name of Drilling Company ~~GARY PARENT/SHORE DRLG. INC.~~

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0 – 3' fill
3' – 10.5' med Sand + silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 2/13/96

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 163 1551

DWR-138 M
11/94

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION

E DMR

MONITORING WELL RECORD

Well Permit No. 29 - 34754
Atlas Sheet Coordinates 29: 13: 829

OWNER IDENTIFICATION - Owner MID MONMOUTH REALTY
Address 1 COLDSTREAM WAY & PINE BROOK
City TINTON FALLS State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 6
County MONMOUTH Municipality TINTON FALLS BO Lot No. 13B, 12B1 Block No. 114
Address 1 COLDSTREAM WAY & PINE BROOK

TYPE OF WELL (as per Well Permit Categories) MONITORING USY Date well completed 2/10/96
Regulatory Program Requiring Well Case I.D. #

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 11 ft.
Well finished to 11 ft.
Borehole diameter:
Top 4 in.
Bottom 4 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 2.5 ft.
Was steel protective casing installed? [X] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+2.5	1	2	PVC
Outer Casing (Not Protective Casing)	—	—	—	
Screen (Note slot size)	1	11	2	PVC 020
Tail Piece	—	—	—	
Gravel Pack	.5	11	4	#2 Sand
Annular Seal/Grout	0	.5	4	Bent Slurry
Method of Grouting	Tremie Pipe			

Static water level after drilling 3 ft.
Water level was measured using a Tape
Well was developed for .5 hours at 3 gpm
Method of development Centrifugal Pump
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity NA gpm
Pump type: NA
Drilling Method Hand Driven Casing
Drilling Fluid NA Type of Rig NA
Name of Driller Gary Parent
Health and Safety Plan submitted? [ ] Yes [X] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1275
Name of Drilling Company GARY PARENT/SHORE DRLG. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0 - 1' Top Soil
1' - 11' med Sand + silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 2/13/96

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 163 1552

DWR-138 M
11/94

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION

E DMR

MONITORING WELL RECORD

Well Permit No. 29 - 34755
Atlas Sheet Coordinates 29 : 13 : 829

OWNER IDENTIFICATION - Owner ~~MID MONMOUTH REALTY~~
Address 1 COLDSTREAM WAY & PINE BROOK
City TINTON FALLS State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 7
County MONMOUTH Municipality TINTON FALLS BO Lot No. 13B, 1201 Block No. 114
Address ~~1 COLDSTREAM WAY & PINE BROOK~~
TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 2/10/96
Regulatory Program Requiring Well UST Case I.D. #
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 9.5 ft.
Well finished to 9.5 ft.
Borehole diameter:
Top 4 in.
Bottom 4 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 2.5 ft.
Was steel protective casing installed? [X] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	+2.5	1	2	PVC
Outer Casing (Not Protective Casing)	—	—	—	
Screen (Note slot size)	1	9.5	2	PVC .020
Tail Piece	—	—	—	
Gravel Pack	.5	9.5	4	#2 Sand
Annular Seal/Grout	0	.5	4	Bent Slurry
Method of Grouting	Tremie Pipe			

Static water level after drilling 3 ft.
Water level was measured using a Tape
Well was developed for .5 hours at 3 gpm
Method of development Centrifugal Pump
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity NA gpm
Pump type: NA
Drilling Method Hand Driven Casing
Drilling Fluid NA Type of Rig NA
Name of Driller Gary Parent
Health and Safety Plan submitted? [ ] Yes [X] No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1275
Name of Drilling Company GARY PARENT/SHORE DRLG. INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0 – 1' Top Soil
1' – 9.5' Med Sand + Silt

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Parent Date 2/13/96

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

4/23/96

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number
~~29 - 35236~~

Atlas Sheet Coordinates
~~29 13 : 863~~

OWNER ~~GENLACH, EDWARD~~
Address 22 SHERWOOD DR.
City EATONTWON State NJ Zip Code

WELL LOCATION ADDRESS 22 SHERWOOD DR. Owner's Well No.
County MONMOUTH Municipality EATONTOWN BORO Lot No. 1 Block No. 93.7

WELL USE IRRIGATION

DATE WELL STARTED 5 / 06 / 96
DATE WELL COMPLETED 5 / 06 / 96

WELL CONSTRUCTION

Total Depth Drilled 119 ft.

Finished Well Depth 119 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1.0 ft. above grade or
ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1.0	94	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	94	114	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece	114	119	4	PVC	Sched. 40
Gravel Pack	84	119	8.5	Blended	.025
Grout	3.5	84	8.5	Neat Cement Bentonite	0 lbs 350 lbs

RECORD OF TEST

Test Date 5 / 6 / 96
Static Water Level 11 ft. below land surface
Water Level Measured Using Measured Tape
Pumping Water Level 75 ft. below land surface
Well Was Pumped Using Air lift
Well Yield 30 gpm
If Pump Tested: Discharge Rate gpm
Duration of Test hours

Grouting Method Pressure through tremie pipe
Drilling Method Mud rotary

PERMANENT PUMPING EQUIPMENT

Installed by M. Cantillo Reg. No. 001571
Pump Type Submersible
Depth of Pump below land surface 80 ft.
Capacity 12 gpm Horsepower 3/4

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0- 40	Med ochre sand
40- 50	Green med sand
50- 65	Green clay w/med green sand
65- 70	Med dark green sand
70- 90	Fine & med green & black sand
90- 95	Fine & med black sand
95-100	Fine & med black sand w/shells
100-119	Fine & med black sand

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING
Well Driller (Print) Benjamin Primost
Driller's Signature
Registration No. J1376 Date 5 / 23 / 96 (N)

COPIES: White - DEP 5/24/96 Canary - Driller 5/24/96 Pink - Owner Goldenrod - Health Dept. 5/24/96

WELREC 163 1567

5/29/96

DWR-138
5/95

E
DMR

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number
29 — 35462

Atlas Sheet Coordinates
29 : 13 : 579

OWNER MATZEL & MUMFORD @ WILLOW
Address 100 VILLAGE CT.
City HAZLET State NJ Zip Code

WELL LOCATION ADDRESS POND VIEW DR. Owner's Well No.
County MONMOUTH Municipality TINTON FALLS BO Lot No. 1.02 Block No. 55

WELL USE DOMESTIC

DATE WELL STARTED 8 / 22 / 96
DATE WELL COMPLETED 8 / 22 / 96

WELL CONSTRUCTION

Total Depth Drilled 181 ft.

Finished Well Depth 181 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1.0 ft. above grade or
ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1.0	156	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	156	176	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece	176	181	4	PVC	Sched. 40
Gravel Pack	146	181	8.5	Blended	.025
Grout	3.5	146	8.5	Neat Cement Bentonite	0 lbs 600 lbs

RECORD OF TEST

Test Date 8 / 22 / 96
Static Water Level 19 ft. below land surface
Water Level Measured Using Measured Tape
Pumping Water Level 125 ft. below land surface
Well Was Pumped Using Air lift
Well Yield 60 gpm
If Pump Tested: Discharge Rate gpm
Duration of Test hours

Grouting Method Pressure through tremie pipe
Drilling Method Mud rotary

PERMANENT PUMPING EQUIPMENT

Installed by D. Ulbricht Reg. No. JD0523
Pump Type Submersible
Depth of Pump below land surface 100 ft.
Capacity 20 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING
Well Driller (Print) Benjamin Primost
Driller's Signature
Registration No. JD13762 Date 10 / 4 / 96

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0- 5	Clayey ~~[illegible]~~ brown sand
5- 10	Tan-green clay w/black sand
10- 40	Silty green clay w/fine black sand
40- 140	Gray clay
140- 150	Fine & med black sand
150- 181	Fine & med gray sand

COPIES: *White - DEP* 10/7/96 *Canary - Driller* 10/7/96 *Pink - Owner* *Goldenrod - Health Dept.* 10/7/96

10/31/96

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

E DMR

Well Permit Number
29 - 36178

Atlas Sheet Coordinates
29 : 13 : 579

OWNER MATZEL & MUMFORD @ WILLOW
Address 100 VILLAGE CT
City HAZLET State NJ Zip Code

WELL LOCATION ADDRESS POND VIEW DR. Owner's Well No.
County MONMOUTH Municipality TINTON FALLS BO Lot No. 1.10 Block No. 55

WELL USE DOMESTIC

DATE WELL STARTED 1 / 22 / 97
DATE WELL COMPLETED 1 / 22 / 97

WELL CONSTRUCTION

Total Depth Drilled 182 ft.

Finished Well Depth 182 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1.0 ft. above grade or
ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1.0	157	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	157	177	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece	177	182	4	PVC	Sched. 40
Gravel Pack	147	182	8.5	Blended	.025
Grout	3.5	147	8.5	Neat Cement Bentonite	0 lbs 600 lbs

RECORD OF TEST

Test Date 1 / 22 / 97
Static Water Level 17 ft. below land surface
Water Level Measured Using Measured Tape
Pumping Water Level 126 ft. below land surface
Well Was Pumped Using Air lift
Well Yield 50 gpm
If Pump Tested: Discharge Rate gpm
Duration of Test hours

Grouting Method Pressure through tremie pipe
Drilling Method Mud rotary

PERMANENT PUMPING EQUIPMENT

Installed by S. Foster Reg. No. MD 1115
Pump Type Submersible
Depth of Pump below land surface 100 ft.
Capacity 20 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING
Well Driller (Print) Benjamin Primost
Driller's Signature
Registration No. D13762 Date 3 / 19 / 97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0- 5	Clayey green/brown sand
5- 40	Green clay
40- 150	Gray clay
150- 160	Med. black sand
160- 182	Fine & med. gray sand

COPIES: White - DEP 3/21/97 Canary - Driller 3/21/97 Pink - Owner Goldenrod - Health Dept. 3/21/97

WELREC 163 1441

10/31/96

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

E
DMR

Well Permit Number
29 — 36179

Atlas Sheet Coordinates
29 : 13 : 579

OWNER MATZEL & MUMFORD @ WILLOW
Address 100 VILLAGE CT
City HAZLET State NJ Zip Code

WELL LOCATION ADDRESS POND VIEW DR. Owner's Well No.
County MONMOUTH Municipality TINTON FALLS BO Lot No. 1.09 Block No. 55

WELL USE DOMESTIC

DATE WELL STARTED 1 / 15 / 97
DATE WELL COMPLETED / /

WELL CONSTRUCTION

Total Depth Drilled 188 ft.
Finished Well Depth 188 ft.

Borehole Diameter: 8.5
Top 8.5 in.
Bottom in.

Well Casing Begins:
ft. above grade or
ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1.0	163	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	163	183	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece	183	188	4	PVC	Sched. 40
Gravel Pack	153	188	8.5	Blended	.025
Grout	3.5	153	8.5	Neat Cement Bentonite	0 lbs 625 lbs

RECORD OF TEST

Test Date 1 / 15 / 97
Static Water Level ft. below land surface
Water Level Measured Using Measured Tape
Pumping Water Level 130 ft. below land surface
Well Was Pumped Using Air lift
Well Yield 30 gpm
If Pump Tested: Discharge Rate gpm
Duration of Test hours

Grouting Method Pressure through tremie pipe
Drilling Method Mud rotary

PERMANENT PUMPING EQUIPMENT

Installed by S. Foster Reg. No. MD1115
Pump Type Submersible
Depth of Pump below land surface 120 ft.
Capacity 20 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING
Well Driller (Print) Benjamin Primost
Driller's Signature
Registration No. JD13762 Date 3 / 12 / 97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-5 Clayey brown sand
5-10 Tan-green clay
10-40 Silty green clay
40-140 Gray clay
140-155 Fine & med. black sand
155-188 Fine & med. gray sand

COPIES: *White - DEP* *Canary - Driller* *Pink - Owner* *Goldenrod - Health Dept.*

3/14/97 3/14/97

WELREC 163 1442

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 — 36179

Atlas Sheet Coordinates 29 : 13 : 579

OWNER MATZEL & MUMFORD @ WILLOW POND

Address 100 VILLAGE CT.

City HAZLET State NJ Zip Code

WELL LOCATION ADDRESS POND VIEW DR. Owner's Well No.

County MONMOUTH Municipality TINTON FALLS BO Lot No. 1.09 Block No. 55

WELL USE DOMESTIC

DATE WELL STARTED 1 / 15 / 97

DATE WELL COMPLETED 1 / 15 / 97

WELL CONSTRUCTION

Total Depth Drilled 188 ft.

Finished Well Depth 188 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1.0 ft. above grade or
ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+ 1.0	163	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	163	183	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece	183	188	4	PVC	Sched. 40
Gravel Pack	153	188	8.5	Blended	.025
Grout	3.5	153	8.5	Neat Cement Bentonite	0 lbs 625 lbs

RECORD OF TEST

Test Date 1 / 15 / 97

Static Water Level 17 ft. below land surface

Water Level Measured Using Measured Tape

Pumping Water Level 130 ft. below land surface

Well Was Pumped Using Air Lift

Well Yield 30 gpm

If Pump Tested: Discharge Rate gpm

Duration of Test hours

Grouting Method Pressure through tremie

Drilling Method Mud Rotary

PERMANENT PUMPING EQUIPMENT

Installed by S. Foster Reg. No. MD1115

Pump Type Submersible

Depth of Pump below land surface 120 ft.

Capacity 20 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING

Well Driller (Print) Benjamin Primost

Driller's Signature

Registration No. MD13762 Date 03 / 12 / 97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0- 5 Clayey brown sand
5- 10 Tan-green clay
10- 40 Silty green clay
40- 140 Gray clay
140-155 Fine & med. black sand
155-188 Fine & med. gray sand

COPIES: White - DEP 3/14/97 Canary - Driller 3/14/97 Pink - Owner Goldenrod - Health Dept. 3/14/97

WELREC 163 1443

11/7/96

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

E DMR

Well Permit Number 29 — 36202

Atlas Sheet Coordinates 29 : 13 : 579

OWNER MATZEL & MUMFORD @ WILLOW
Address 100 VILLAGE CT
City HAZLET State NJ Zip Code

WELL LOCATION ADDRESS POND VIEW DR Owner's Well No. 55
County MONMOUTH Municipality TINTON FALLS BO Lot No. 1.03 Block No.

WELL USE DOMESTIC

DATE WELL STARTED 5 / 1 / 97
DATE WELL COMPLETED 5 / 1 / 97

WELL CONSTRUCTION

Total Depth Drilled 182 ft.

Finished Well Depth 182 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1.0 ft. above grade or
ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1.0	157	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	157	177	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece	177	182	4	PVC	Sched. 40
Gravel Pack	147	182	8.5	Blended	.025
Grout	3.5	147	8.5	Neat Cement Bentonite	0 lbs 625 lbs

RECORD OF TEST

Test Date 5 / 1 / 97
Static Water Level 17 ft. below land surface
Water Level Measured Using Measured Tape
Pumping Water Level 126 ft. below land surface
Well Was Pumped Using Air lift
Well Yield 50 gpm
If Pump Tested: Discharge Rate gpm
Duration of Test hours

Grouting Method Pressure through tremie pipe
Drilling Method Mud rotary

PERMANENT PUMPING EQUIPMENT

Installed by T. Wheaton Reg. No. 0016656
Pump Type Submersible
Depth of Pump below land surface 110 ft.
Capacity 20 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING
Well Driller (Print) Benjamin Pelnost
Driller's Signature
Registration No. ID 13762 Date 6 / 9 / 97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0- 10 Clayey brown sand
10- 30 Black sand w/green clay
30- 150 Gray clay
150- 182 Fine & medium gray sand w/black sand

COPIES: White - DEP 6/11/97 Canary - Driller 6/11/97 Pink - Owner Goldenrod - Health Dept. 6/11/97

WELREC 163 1445

11/7/96

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

E DMR

Well Permit Number 29 — 36204

Atlas Sheet Coordinates 29 13 : 579

OWNER MATZEL & MUMFORD @ WILLOW
Address 100 VILLAGE CT
City HAZLET State NJ Zip Code

WELL LOCATION ADDRESS POND VIEW DR Owner's Well No. 55
County MONMOUTH Municipality TINTON FALLS BO Lot No. 1.06 Block No.

WELL USE DOMESTIC

DATE WELL STARTED 4 / 7 / 97
DATE WELL COMPLETED 4 / 7 / 97

WELL CONSTRUCTION

Total Depth Drilled 181 ft.

Finished Well Depth 181 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1.0 ft. above grade or
ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1.0	156	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	156	176	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece	176	181	4	PVC	Sched. 40
Gravel Pack	146	181	8.5	Blended	.025
Grout	3.5	146	8.5	Neat Cement Bentonite	0 lbs 600 lbs

RECORD OF TEST

Test Date 4 / 7 / 97
Static Water Level 18 ft. below land surface
Water Level Measured Using Measured Tape
Pumping Water Level 125 ft. below land surface
Well Was Pumped Using Air lift
Well Yield 30 gpm
If Pump Tested: Discharge Rate gpm
Duration of Test hours

Grouting Method Pressure through tremie pipe
Drilling Method Mud rotary

PERMANENT PUMPING EQUIPMENT

Installed by D. Ulbricht Reg. No. JD 0523
Pump Type Submersible
Depth of Pump below land surface 120 ft.
Capacity 20 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING
Well Driller (Print) Benjamin Prisco
Driller's Signature
Registration No. JD 13752 Date 6 / 12 / 97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0- 5 Clayey brown sand
5- 10 Silty green clay
10- 30 Silty green clay w/black sand
30-150 Gray clay
150-181 Fine gray sand

COPIES: White - DEP 6/16/97 Canary - Driller 6/16/97 Pink - Owner Goldenrod - Health Dept. 6/16/97

WELREC 163 1446

PCL XL error

Subsystem: KERNEL

Error: IllegalTag

Operator: 0x82

Position: 13

1682

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 36563

Atlas Sheet Coordinates 29 : 13 : 843

OWNER IDENTIFICATION - Owner MONMOUTH CTY DEPT OF BLDG
Address 250 CENTER ST
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK RD

DATE WELL STARTED 3 / 3 / 97
DATE WELL COMPETED 3 / 3 / 97

TYPE OF WELL (as per Well Permit Categories) GAS VENT
Regulatory Program Requiring Well UST Case I.D.# 92-11-23-131752

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 11 ft.
Well finished to 11 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Was steel protective casing installed?
☒ Yes ☐ No

Static water level after drilling 9 ft.

Water level was measured using ELE TAPE

Well was developed for N/A hours
at ____ gpm

Method of development N/A

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid WATER Type of Rig D-50

Health and Safety Plan submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	-0-	2	4	PVC	SCH. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	2	10	4	PVC	SCH. 40 .020 SLOT
Blank Casings (No. Used)					
Tail Piece	10	11	4	PVC	SCH. 40
Gravel Pack	1	11	10	MORIE #2	
Grout	0	1	10	Neat Cement Bentonite	30 lbs. — lbs.

Grouting Method GRAVITY PLACEMENT.
Drilling Method H.S.A.

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0
1 MED - FINE GREEN SAND
9 - WATER
1 MED-FINE GREEN SAND
11

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP.

Well Driller (Print) WILLIAM A. SHINN JR.

Driller's Signature

Registration No. MD1289 Date 3 / 3 / 97

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 36564

Atlas Sheet Coordinates 29 : 13 : 843

OWNER IDENTIFICATION - Owner MONMOUTH CTY DEPT OF BLDG
Address 250 CENTER ST
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. VP-1
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK RD

DATE WELL STARTED 2 12 / 97
DATE WELL COMPETED 2 12 / 97

TYPE OF WELL (as per Well Permit Categories) GAS VENT
Regulatory Program Requiring Well UST Case I.D.# 92-11-23-131752

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 5 ft.
Well finished to 4 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Was steel protective casing installed? ☑ Yes ☐ No

Static water level after drilling 4.3 ft.

Water level was measured using TAPE

Well was developed for N/A hours at ____ gpm

Method of development N/A

Was permanent pumping equipment installed? ☐ Yes ☐ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig D-50

Health and Safety Plan submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	3	1"	PVC	Sch 80
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	3	4	1"	PVC	20 Slot
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	5	8	#1 Morie	
Grout	1	3		Neat Cement	94 lbs.
				Bentonite	____ lbs.

Grouting Method ~~Pump~~ Pressure
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0'-6" Top Soil
6"-5' Pea Gravel
(old TANK Area)

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP.
Well Driller (Print) Charles Hetzelberger
Driller's Signature Charles Hetzelberger
Registration No. MD 1066 Date 2 12 / 97

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 36565

Atlas Sheet Coordinates 29 : 13 : 843

OWNER IDENTIFICATION - Owner MONMOUTH CTY DEPT OF BLDG
Address 250 CENTER ST
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. VP-2
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK RD

DATE WELL STARTED 2/27/97
DATE WELL COMPETED 2/27/97

TYPE OF WELL (as per Well Permit Categories) GAS VENT
Regulatory Program Requiring Well UST Case I.D.# 92-11-23-131752

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 5 ft.
Well finished to 5 ft.

Borehole diameter:
Top 8 in.
Bottom in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling N/A ft.

Water level was measured using

Well was developed for hours at gpm

Method of development N/A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	4	1"	PVC	Sch. 80
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	4	5	1"	PVC	#20
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3.5	5	8"	Silica	90 lbs.
Grout	0	3.5		Neat Cement Bentonite	lbs.

Grouting Method Pressure
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☐ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig D-50

Health and Safety Plan submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP.

Well Driller (Print) Charles Hitzelberger

Driller's Signature Charles Hitzelberger

Registration No. MC 1066 Date 2/07/97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5' Dry Limeto
Silty Green Sand

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 163 1557

DWR-138_M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 36566

Atlas Sheet Coordinates 29 : 13 : 943

OWNER IDENTIFICATION - Owner MONMOUTH CTY DEPT OF BLDG
Address 250 CENTER ST
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MP-3
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK RD

DATE WELL STARTED 2/27/97
DATE WELL COMPETED 2/27/97

TYPE OF WELL (as per Well Permit Categories) GAS VENT
Regulatory Program Requiring Well UST Case I.D.# 92-11-23-131752

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 5 ft.
Well finished to 5 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling N/A ft.

Water level was measured using

Well was developed for N/A hours at ____ gpm

Method of development N/A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	4	1"	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	4	5	1"	PVC	.020
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3.5	5	8"	#2 Morie	94 lbs.
Grout	0	3.5		Neat Cement Bentonite	____ lbs.

Grouting Method Pressure
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☐ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig D-50

Health and Safety Plan submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP.

Well Driller (Print) Charles Fitzsimmons

Driller's Signature Charles Fitzsimmons

Registration No. MD 1066 Date 2/27/97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5 Green Fine Med Sand trace Silt

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138.M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 36567

Atlas Sheet Coordinates 29 : 13 : 843

OWNER IDENTIFICATION - Owner MONMOUTH CTY DEPT OF BLDG
Address 250 CENTER ST
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. UP-4
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK RD

DATE WELL STARTED 2/27/97
DATE WELL COMPETED 2/27/97

TYPE OF WELL (as per Well Permit Categories) GAS VENT
Regulatory Program Requiring Well UST Case I.D.# 92-11-23-131752

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 5 ft.
Well finished to 5 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling N/A ft.

Water level was measured using N/A

Well was developed for N/A hours at ____ gpm

Method of development N/A

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig D-50

Health and Safety Plan submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	4	1"	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	4	5	1"	PVC	.020
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3.5	5	8"	#2 Morie	90
Grout	0	3.5		Neat Cement	94 lbs.
				Bentonite	____ lbs.

Grouting Method Pressure
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5 Green Sand Med to Fine w/ silty layer

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP.
Well Driller (Print) Charles Hitzelberger
Driller's Signature
Registration No. MD1066 Date 2/27/97

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 36568

Atlas Sheet Coordinates 29 : 13 : 843

OWNER IDENTIFICATION - Owner MONMOUTH CTY DEPT OF BLDG
Address 250 CENTER ST
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. AS-2
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK RD

DATE WELL STARTED 2/28/97
DATE WELL COMPETED 2/28/97

TYPE OF WELL (as per Well Permit Categories) GAS VENT
Regulatory Program Requiring Well UST Case I.D.# 92-11-23-131752

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 30 ft.
Well finished to 30 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 9 ft.

Water level was measured using TAPE

Well was developed for N/A hours at ____ gpm

Method of development N/A

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid Water Type of Rig D-50

Health and Safety Plan submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	25	2	PVC	Sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	25	28	2	PVC	~~Sch. 40~~ 20 slot
Blank Casings (No. Used)					
Tail Piece	28	30	2	PVC	Sch. 40
Gravel Pack	22	30	8	#Morie	
Grout	0	22	8	Neat Cement Bentonite	~~22~~ lbs. 18 lbs.

Grouting Method Pressure
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-12 Med to Fine Sand
12-30 Light gray-rich yellow Med to Coarse w/ Trace of silt

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP.
Well Driller (Print) Charles Hitzelberger
Driller's Signature [signature]
Registration No. MD 1066 Date 2/28/97

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 36569

Atlas Sheet Coordinates 29 : 13 : 843

OWNER IDENTIFICATION - Owner MONMOUTH CTY DEPT OF BLDG
Address 250 CENTER ST
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. AS-3
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK RD

DATE WELL STARTED 2/28/97
DATE WELL COMPETED 2/28/97

TYPE OF WELL (as per Well Permit Categories) GAS VENT
Regulatory Program Requiring Well UST Case I.D.# 92-11-23-131752

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 28 ft.
Well finished to 28 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Was steel protective casing installed?
☒ Yes ☐ No

Static water level after drilling 8.5 ft.

Water level was measured using TAPE

Well was developed for N/A hours
at ____ gpm

Method of development N/A

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid water Type of Rig D-50

Health and Safety Plan submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	23	2	PVC	Sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	23	26	2	PVC	.020 slot
Blank Casings (No. Used)					
Tail Piece	26	28	2	PVC	Sch. 40
Gravel Pack	20	28	8	#2 Monie	
Grout	0	20	8	Neat Cement Bentonite	2 bags lbs. 18 lbs.

Grouting Method Pressure
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0 - 12 Green Sand Mud to fine

12-28 Light Greenish Yellow Sand, Mud to Green w/ Traces of silt

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP.

Well Driller (Print) Charles Hitzelberger

Driller's Signature Charles Hitzelberger

Registration No. MD 1066 Date 2/28/97

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29- 36570

Atlas Sheet Coordinates 29 : 13 : 843

OWNER IDENTIFICATION - Owner MONMOUTH CTY DEPT OF BLDG
Address 250 CENTER ST
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MS-4
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK RD

DATE WELL STARTED 3 / 3 / 97
DATE WELL COMPETED 3 / 3 / 97

TYPE OF WELL (as per Well Permit Categories) GAS VENT
Regulatory Program Requiring Well UST Case I.D.# 92-11-23-131752

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 28 ft.
Well finished to 28 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 9 ft.

Water level was measured using ELE. TAPE

Well was developed for N/A hours at ____ gpm

Method of development N/A

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig D-50

Health and Safety Plan submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	23	2	PVC	SCH. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	23	26	2	PVC	SCH. 40 .020 SLOT
Blank Casings (No. Used)					
Tail Piece	26	28	2	PVC	SCH. 40
Gravel Pack	20	28	8	MORIE #2	
Grout	0	20	8	Neat Cement Bentonite	282 lbs. 18 lbs.

Grouting Method PRESSURE TREMIE GROUT
Drilling Method H.S.A.

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0'
MED-FINE GREEN SANDS
12'
LIGHT GREENISH YELLOW SAND MED.-COARSE with TRACE OF SILT.
28'

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP.

Well Driller (Print) WILLIAM A. SHINN JR.

Driller's Signature

Registration No. M01289 Date 3 / 3 / 97

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 163 1562

1682

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29- 36571

Atlas Sheet Coordinates 29 : 13 : 843

OWNER IDENTIFICATION - Owner MONMOUTH CTY DEPT OF BLDG
Address 250 CENTER ST
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-6
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK RD

DATE WELL STARTED 2/27/97
DATE WELL COMPETED 2/27/97

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# 92-11-23-131752

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.
Well finished to 15 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Was steel protective casing installed?
☒ Yes ☐ No

Static water level after drilling 8 ft.

Water level was measured using TAPE

Well was developed for N/A hours
at ____ gpm

Method of development

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	5	2	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	5	15	2	PVC	Sch 40 #20 Slot
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3	15	8	#2 Morie	
Grout	0	3	8	Neat Cement Bentonite	94 lbs. ____ lbs.

Grouting Method Pressure
Drilling Method HSA

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig D-50

Health and Safety Plan submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP.

Well Driller (Print) Charles Hitzelberger

Driller's Signature Charles Hitzelberger

Registration No. MD 1066 Date 2/27/97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-4 Top Soil

4-15 Multi Pine green Sand w/ trace of silt

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

2/28/97

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 — 36653

Atlas Sheet Coordinates 29: 13 : 579

OWNER MATZEL & MUMFORD @ WILLOW
Address 100 VILLAGE COURT
City HAZLET State NJ Zip Code

WELL LOCATION ADDRESS POND VIEW DRIVE Owner's Well No.
County MONMOUTH Municipality TINTON FALLS BO Lot No. 1.07 Block No. 55

WELL USE DOMESTIC

DATE WELL STARTED 8 / 19 / 97
DATE WELL COMPLETED 8 / 19 / 97

WELL CONSTRUCTION

Total Depth Drilled 180 ft.

Finished Well Depth 180 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1.0 ft. above grade or
_____ ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1.0	155	4	PVC	SCHED. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	155	175	4	PVC	SCHED. 40
Blank Casings (No. Used)					
Tail Piece	175	180	4	PVC	SCHED. 40
Gravel Pack	145	180	8.5	BLENDED	.025
Grout	3.5	145	8.5	Neat Cement / Bentonite	600 lbs / lbs

RECORD OF TEST

Test Date 8 / 19 / 97
Static Water Level 124 ft. below land surface
Water Level Measured Using MEASURED TAPE
Pumping Water Level 124 ft. below land surface
Well Was Pumped Using AIR LIFT
Well Yield 30 gpm
If Pump Tested: Discharge Rate _____ gpm
Duration of Test _____ hours

Grouting Method PRESSURE THROUGH TREMIE PIPE
Drilling Method MUD ROTARY

PERMANENT PUMPING EQUIPMENT

Installed by T. WHEATON Reg. No. 0016656
Pump Type SUBMERSIBLE
Depth of Pump below land surface 120 ft.
Capacity 20 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING
Well Driller (Print) BENJAMIN PRIMOST
Driller's Signature [signature]
Registration No. MD 18762 Date 9 / 29 / 97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5 CLAYEY MED. BROWN SAND
5-30 GREEN CLAY W/ BLACK SAND
30-145 GRAY CLAY
145-150 GRAY CLAY W/ SAND
150-180 FINE GRAY SAND W/ BLACK SAND

COPIES: White - DEP 10/2/97 Canary - Driller 10/2/97 Pink - Owner Goldenrod - Health Dept. 10/2/97

WELREC 163 1449

2/28/97

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

DMR

Well Permit Number
29 — 36654

Atlas Sheet Coordinates
29 : 13 : 579

OWNER MATZEL & MUMFORD @ WILLOW
Address 100 VILLAGE COURT
City HAZLET State NJ Zip Code

WELL LOCATION ADDRESS POND VIEW DRIVE Owner's Well No.
County MONMOUTH Municipality TINTON FALLS BO Lot No. 1.04 Block No. 55

WELL USE DOMESTIC

DATE WELL STARTED 5 / 23 / 97
DATE WELL COMPLETED 5 / 23 / 97

WELL CONSTRUCTION

Total Depth Drilled 181 ft.

Finished Well Depth 181 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1.0 ft. above grade or
ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1.0	156	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	156	176	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece	176	181	4	PVC	Sched. 40
Gravel Pack	146	181	8.5	Blended	.025
Grout	3.5	146	8.5	Neat Cement Bentonite	0 lbs 600 lbs

RECORD OF TEST

Test Date 5 / 23 / 97
Static Water Level 19 ft. below land surface
Water Level Measured Using Measured Tape
Pumping Water Level 144 ft. below land surface
Well Was Pumped Using Air lift
Well Yield 50 gpm
If Pump Tested: Discharge Rate gpm
Duration of Test hours

Grouting Method Pressure through tremie pipe
Drilling Method Mud rotary

PERMANENT PUMPING EQUIPMENT

Installed by T. Wheaton Reg. No. 0016656
Pump Type Submersible
Depth of Pump below land surface 115 ft.
Capacity 20 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING
Well Driller (Print) Benjamin Pimont
Driller's Signature
Registration No. 30 13782 Date 6 / 24 / 97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0- 5 Clayey brown sand
5- 30 Black sand w/green clay
30- 150 Gray clay w/black sand
150- 181 Fine & medium gray sand w/black sand & shells

COPIES: White - DEP 6/25/97 Canary - Driller 6/25/97 Pink - Owner Goldenrod - Health Dept. 6/25/97

WELREC 163 1447

3/4/97

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

E DMR

Well Permit Number
29 — 36658

Atlas Sheet Coordinates
29 : 13 : 579

OWNER MATZEL & MUMFORD @ WILLOW
Address 100 VILLAGE COURT
City HAZLET State NJ Zip Code

WELL LOCATION ADDRESS POND VIEW DR Owner's Well No.
County MONMOUTH Municipality TINTON FALLS BO Lot No. 1.05 Block No. 55

WELL USE DOMESTIC

DATE WELL STARTED 6 / 18 / 97
DATE WELL COMPLETED 6 / 18 / 97

WELL CONSTRUCTION

Total Depth Drilled 165 ft.

Finished Well Depth 165 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1.0 ft. above grade or
ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1.0	140	4	PVC	Sched. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	140	160	4	PVC	Sched. 40
Blank Casings (No. Used)					
Tail Piece	160	165	4	PVC	Sched. 40
Gravel Pack	130	165	8.5	Blended	.025
Grout	3.5	130	8.5	Neat Cement Bentonite	0 lbs 550 lbs

RECORD OF TEST

Test Date 6 / 18 / 97
Static Water Level 13 ft. below land surface
Water Level Measured Using Measured Tape
Pumping Water Level 112 ft. below land surface
Well Was Pumped Using Air lift
Well Yield 20 gpm
If Pump Tested: Discharge Rate gpm
Duration of Test hours

Grouting Method Pressure through tremie pipe
Drilling Method Mud rotary

PERMANENT PUMPING EQUIPMENT

Installed by D. Ulbricht Reg. No. JD 0523
Pump Type Submersible
Depth of Pump below land surface 130 ft.
Capacity 20 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING
Well Driller (Print) Benjamin Primost
Driller's Signature
Registration No. no 13762 Date 7 / 14 / 97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0- 5 Clayey brown sand
5- 15 Green clay w/black sand
15- 20 Green clay w/black sand w/gray clay
20- 140 Gray clay w/black sand
140- 145 Fine & med. gray sand
145-165 Fine & med. gray sand w/black sand

COPIES: White - DEP 7/21/97 Canary - Driller 7/21/97 Pink - Owner Goldenrod - Health Dept. 7/21/97

WELREC 163 1448

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 36753

Atlas Sheet Coordinates 29 : 13 : 852

OWNER IDENTIFICATION - Owner LAMONTS CORP
Address 12413 WILLOWS RD NE
City KIRKLAND State WA Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-7R
County MONMOUTH Municipality TINTON FALLS BO Lot No. 31.02 Block No. 114.01
Address 46 PARK RD

DATE WELL STARTED 4 / 8 / 97
DATE WELL COMPETED 4 / 8 / 97

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well ISRA SITE Case I.D.# 88940 & 88A14

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Fluor Daniel GTI Tele. # 609-587-0300

WELL CONSTRUCTION

Total depth drilled 8' ft.
Well finished to 8' ft.

Borehole diameter:
Top 12" in.
Bottom 12" in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface — ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 3' ft.

Water level was measured using M-Scope

Well was developed for 1/2 hours at 3 gpm

Method of development pumping

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity ____ gpm

Pump type: ____

Drilling Fluid ____ Type of Rig B57 Mobile

Health and Safety Plan submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one) None D C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	1 1/2	4"	PVC	Sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	1 1/2	8'	4"	PVC .020	Sch. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	1'	8'	#1	Morie	
Grout	0	1'		Neat Cement Bentonite	47 lbs. 2 lbs.

Grouting Method GRAVITY
Drilling Method H.S.A

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-6' ORANGE MED. SAND
6'-8' Grey Med. Sand

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TOTAL QUALITY DRILLING

Well Driller (Print) Michael J. Karlunas

Driller's Signature Michael J. Karlunas

Registration No. MD 1328 Date 4 / 10 / 97

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

E DMR

Well Permit Number
~~29 - 36968~~

Atlas Sheet Coordinates
~~29 13 : 862~~

OWNER ~~RECUPERO, RICHARD~~
Address 1 SHERWOOD DRIVE
City EATONTOWN State NJ Zip Code

WELL LOCATION ADDRESS 1 SHERWOOD DRIVE Owner's Well No. 1
County MONMOUTH Municipality EATONTOWN BORO Lot No. 7 Block No. 93.8

WELL USE IRRIGATION

DATE WELL STARTED 7 / 18 / 97
DATE WELL COMPLETED 7 / 18 / 97

WELL CONSTRUCTION

Total Depth Drilled 80 ft.

Finished Well Depth 80 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
_____ ft. above grade or
1 ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating (lbs/sch no.)
Single/Inner Casing	1	70	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	70	80	4	PVC	sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	65	80		Natural Sand	
Grout	1	65		Neat Cement	lbs
				Bentonite	140 lbs

RECORD OF TEST
Test Date 7 / 18 / 97
Static Water Level 10 ft. below land surface
Water Level Measured Using tape measure
Pumping Water Level 25 ft. below land surface
Well Was Pumped Using air lift
Well Yield 30 gpm
If Pump Tested: Discharge Rate 20 gpm
Duration of Test 1 hours

Grouting Method Pressure thru tremie
Drilling Method Mud Rotary

PERMANENT PUMPING EQUIPMENT
Installed by Karl Putman Reg. No. 51054
Pump Type Submersible
Depth of Pump below land surface 70 ft.
Capacity 20 gpm Horsepower 1

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5 med. course brown sand
5-20 med. course tan sand some black
20-40 med. course Orange sand trace clay
40-60 soft shell + med Br. sand
60-65 fine med Gray/Green sand trace shell
65-80 med. Green sand

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ~~KARL PUTMAN~~ JERSEY WELL DRLG. INC
Well Driller (Print) Karl Putman Pres.
Driller's Signature Karl Putman
Registration No. 51054 Date 8 / 1 / 97

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

E DMR

Well Permit Number 29 — 36969

Atlas Sheet Coordinates 29 13 : 862

OWNER MARUCCI, JOSEPH
Address 5 SHERWOOD DRIVE
City EATONTOWN State NJ Zip Code

WELL LOCATION ADDRESS 5 SHERWOOD DRIVE Owner's Well No. 1
County MONMOUTH Municipality EATONTOWN BORO Lot No. 6 Block No. 93.8

WELL USE IRRIGATION

DATE WELL STARTED 7 / 26 / 97
DATE WELL COMPLETED 7 / 26 / 97

WELL CONSTRUCTION

Total Depth Drilled 75 ft.

Finished Well Depth 75 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
_____ ft. above grade or
1 ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	1	65	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	65	75	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	60	75		Natural Sand	
Grout	1	60		Neat Cement ____ lbs Bentonite 130 lbs	

RECORD OF TEST

Test Date 7 / 26 / 97
Static Water Level 9 ft. below land surface
Water Level Measured Using tape measure
Pumping Water Level 24 ft. below land surface
Well Was Pumped Using air lift
Well Yield 30 gpm
If Pump Tested: Discharge Rate 20 gpm
Duration of Test 1 hours

Grouting Method Pressure thru tremie
Drilling Method Mud Rotary

PERMANENT PUMPING EQUIPMENT

Installed by Karl Putman Reg. No. J1054
Pump Type Submersible
Depth of Pump below land surface 65 ft.
Capacity 20 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ~~KARL PUTMAN~~/JERSEY WELL DRLG. INC.
Well Driller (Print) Karl Putman Pres.
Driller's Signature Karl Putman Pres
Registration No. J1054 Date 8 / 1 / 97

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5 med. course tan sand
5-20 med. course Brown sand - some black
20-30 med. course orange sand - trace of clay
30-60 med. Br. sand trace of shell
60-65 fine Br./Green sand trace shells
65-75 med. Gray sand

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

J# 1784

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29- 37036

Atlas Sheet Coordinates 29 : 13 : 843

OWNER IDENTIFICATION - Owner MONMOUTH CO. DEPT. OF BUI
Address 250 CENTER ST.
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. SVE-3
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK RD.

DATE WELL STARTED 6 / 20 / 97
DATE WELL COMPETED 6 / 20 / 97

TYPE OF WELL (as per Well Permit Categories) GAS VENT
Regulatory Program Requiring Well UST Case I.D.# 92-11-23-131752

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) ACQUA BELLA, INC. Tele. #

WELL CONSTRUCTION

Total depth drilled 8 ft.
Well finished to 7 ft.

Borehole diameter:
Top 10 in.
Bottom 10 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed?
☐ Yes ☑ No

Static water level after drilling 6.2 ft.

Water level was measured using TAPE

Well was developed for _____ hours
at _____ gpm

Method of development N/A

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig D-120

Health and Safety Plan submitted? ☐ Yes ☑ No

Level of Protection used on site (circle one) (None) D C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	3.0	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .010)	3.0	7.0	4	SCH 40 PVC	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2.0	7.0	10	morie	#2
Grout	1.0 7.0	2.0 8.0	10	Neat Cement Bentonite	___ lbs. 50 lbs.

Grouting Method Pressure Tremie
Drilling Method Auger

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5' Clayey Silt Some Sand

5-8' Green Med. Sand

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP.

Well Driller (Print) ANDRÉ H. BOUTOILLE III

Driller's Signature [signature]

Registration No. TD 14666 Date 6 / 21 / 97

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

1784

DWR-138 M
11/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 37037

Atlas Sheet Coordinates 29 : 13 : 843

OWNER IDENTIFICATION - Owner MONMOUTH CO. DEPT. OF BUI
Address 250 CENTER ST.
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINE BROOK RD.

DATE WELL STARTED 6/20/97
DATE WELL COMPETED 6/20/97

TYPE OF WELL (as per Well Permit Categories) GAS VENT
Regulatory Program Requiring Well UST Case I.D.# 92-11-23-131752

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) ACQUA BELLA, INC. Tele. #

WELL CONSTRUCTION

Total depth drilled 23 ft.
Well finished to 23 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☐ above grade
☑ flush mounted

If finished above grade, casing height (stick up) above land surface N/A ft.

Was steel protective casing installed?
☐ Yes ☑ No

Static water level after drilling 6.2 ft.

Water level was measured using TAPE

Well was developed for _____ hours
at _____ gpm

Method of development N/A

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid N/A Type of Rig D-120

Health and Safety Plan submitted? ☐ Yes ☑ No

Level of Protection used on site (circle one) (None) D C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	19.0	2	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .010)	19.0	22.0	2	PVC	SCH 40
Blank Casings (No. Used)					
Tail Piece	22.0	23.0	2	PVC	SCH 40
Gravel Pack	18.0	22.0	8	Morie	#2
Grout	0 22.0	18.0 23.0	8	Neat Cement Bentonite	200 lbs. 50 lbs.

Grouting Method PRESSURE TREMIE
Drilling Method Auger

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5' CLAYEY SILT SOME SAND

5-23.0' GREEN MED. SAND

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORP.

Well Driller (Print) ANDRE H. BOUTDILLE III

Driller's Signature [signature]

Registration No. TD 14606 Date 6/21/97

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
1/96

New Jersey Department of Environmental Protection
Bureau of Water Allocation

E DMR

MONITORING WELL RECORD

Well Permit No. 29 - 37899
Atlas Sheet Coordinates 29 : 13 : 822

OWNER IDENTIFICATION - Owner DIRACTORATE OF PUBLIC WOR
Address BUILDING 167 FORT MONMOUTH NJ
City _____ State _____ Zip Code _____

WELL LOCATION - If not the same as owner please give address OCEANPORT BORO Owner's Well No. N/A B-1 N/A
County MONMOUTH Municipality _____ Lot No. _____ Block No. _____
Address BLDG. 167 Date well started 12/8/97
TYPE OF WELL (as per Well Permit Categories) BORING Date well completed 12/8/97
Regulatory Program Requiring Well _____ Case I.D. # _____
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Miller. Dyce Spears Inc. Tele. # _____

WELL CONSTRUCTION

Total depth drilled 47' ft.
Well finished to N/A ft.
Borehole diameter: Top 8" in. Bottom 8" in.
Well was finished: ☐ above grade ☐ flush mounted N/A
If finished above grade, casing height (stick up) above land surface N/A ft.
Was steel protective casing installed? ☐ Yes ☑ No

	Depth to Top (ft.) (From land surface)	Depth to Bottom (ft.) (From land surface)	Diameter (inches)	Type and Material
Inner Casing	—	—	—	
Outer Casing (Not Protective Casing)	—	—	—	
Screen (Note slot size)	—	—	—	
Tail Piece	—	—	—	
Gravel Pack	—	—	—	
Annular Seal/Grout	0	47'		Bentonite/Cement
Method of Grouting	Tremie			

Static water level after drilling 30" ft.
Water level was measured using M Scope
Well was developed for N/A hours at _____ gpm
Method of development None
Was permanent pumping equipment installed? ☐ Yes ☑ No
Pump capacity N/A gpm
Pump type: None
Drilling Method Augers
Drilling Fluid None Type of Rig Mobile B-53
Name of Driller Michael A. Pratt
Health and Safety Plan submitted? ☐ Yes ☑ No
Level of Protection used on site (circle one) None (D) C B A
N.J. Registration No. HP DRILLING, INC.
Name of Drilling Company _____

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

0-3" ASPHALT
3"-1'0" OR BRN. M/F SAND & GRAVEL TR. SILT & CLAY
1'-4.5 GREENISH BLK. SILTY FINE SAND TR. SOME SILT
4.5-6.5 GREEN FINE SAND TR. SILT WET
6.5-9.5 BRN. TR. GREEN FINE SAND TR. SILT
9.5-12' BLK. SILTY FINE SAND TR. GRAVEL
12-18 BLK. SILTY FINE SAND.
18'-47 BLK. & GREEN SILTY FINE SAND TR. CLAY.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Driller's Signature Michael Pratt Date 12/12/97

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

WELREC 163 1550

5/15/98

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 — 38654

Atlas Sheet Coordinates 29: 13 : 584

OWNER ~~MONMOUTH REG. HIGH SCHOOL~~
Address ONE NORMAN J FIELD WAY
City TINTON FALLS State NJ Zip Code

WELL LOCATION ADDRESS ONE NORMAN J FIELD WAY Owner's Well No.
County MONMOUTH Municipality TINTON FALLS BO Lot No. 1.11 Block No. 55

WELL USE NON PUBLIC

DATE WELL STARTED 11 / 04 / 98
DATE WELL COMPLETED 11 / 04 / 98

WELL CONSTRUCTION

Total Depth Drilled 173 ft.
Finished Well Depth 173 ft.
Borehole Diameter: Top 8.5 in. Bottom 8.5 in.
Well Casing Begins: 1.0 ft. above grade or ____ ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1.0	158	4	PVC	SCHED.40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	158	168	4	PVC	SCHED.40
Blank Casings (No. Used)					
Tail Piece	168	173	4	PVC	SCHED.40
Gravel Pack	148	173	8.5	BLENDED	.025
Grout	3.5	148	8.5	Neat Cement ____ lbs Bentonite 600 lbs	

RECORD OF TEST

Test Date 11 / 04 / 98
Static Water Level 14 ft. below land surface
Water Level Measured Using MEASURED TAPE
Pumping Water Level 126 ft. below land surface
Well Was Pumped Using AIR LIFT
Well Yield 40 gpm
If Pump Tested: Discharge Rate ____ gpm
Duration of Test ____ hours

Grouting Method PRESSURE THROUGH TREMIE PIPE
Drilling Method MUD ROTARY

PERMANENT PUMPING EQUIPMENT

Installed by D. UHLBRICHT Reg. No. JD 0523
Pump Type SUBMERSIBLE
Depth of Pump below land surface 100 ft.
Capacity 12 gpm Horsepower 3/4 HP

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING
Well Driller (Print) NORMAN PRIMOST
Driller's Signature Norman Primost
Registration No. M1040 Date 12 / 23 / 98

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5 TOPSOIL
5-15 GREEN CLAY
15-20 GRAY CLAY
20-70 GRAY CLAY W/GRAY SILT & SOME FINE GRAY SAND
70-130 GRAY CLAY W/SOME MED & COARSE GREEN SAND W/GRAY SILT
130-173 COARSE & MED GRAY SAND W/SOME GREEN PEBBLES.

COPIES: White - DEP 1/7/99 Canary - Driller 1/7/99 Pink - Owner Goldenrod - Health Dept. 1/7/99

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 — 38660

Atlas Sheet Coordinates 29: 13 : 862

OWNER ALEMANY, CARLOS
Address 145 NOTTINGHAM DRIVE
City EATONTOWN State NJ Zip Code 07724

WELL LOCATION ADDRESS 145 NOTTINGHAM DRIVE Owner's Well No. 1
County MONMOUTH Municipality EATONTOWN BORO Lot No. 26 Block No. 93.6

WELL USE IRRIGATION DATE WELL STARTED 6/2/98
DATE WELL COMPLETED 6/2/98

WELL CONSTRUCTION

Total Depth Drilled 80 ft.

Finished Well Depth 80 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
+1.5 ft. above grade or
— ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1.5	54	4	PVC	Sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .015)	54	74	4	PVC	Sch. 40
Blank Casings (No. Used)					
Tail Piece	74	80	4	PVC	Sch 40
Gravel Pack	50	80	8.5	Filter Gravel #1	
Grout	3	50	8.5	Neat Cement / Bentonite	— lbs / 175 lbs

RECORD OF TEST

Test Date 6/2/98
Static Water Level 22 ft. below land surface
Water Level Measured Using M-Scope Snap-Line
Pumping Water Level 50 ft. below land surface
Well Was Pumped Using Air
Well Yield 150+ gpm
If Pump Tested: Discharge Rate ____ gpm
Duration of Test ____ hours

Grouting Method Pressure Tremie
Drilling Method D.C. Rotary

PERMANENT PUMPING EQUIPMENT

Installed by Michael Spaluto Reg. No. JD2422
Pump Type Submersible
Depth of Pump below land surface 45 ft.
Capacity 70 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TIGER CONSTRUCTION CORP.
Well Driller (Print) Dennis B. Gillis
Driller's Signature [signature]
Registration No. MD 0982 Date 6/15/98

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-1 Red Loamy Sand
1-16 Reddish Brown F-M Quartz Sand Tr. Clay/Silt Partially Indurated 10-16'
16-22 Heavily Indurated Green Glauconitic F-M Quartz Sand
22-74 F-M Glauconitic Weathered Green Quartz Sand (Vincentown)
74-80 Mostly Indurated Glauconite Tr. Clay

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

7/30/98

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number
29 - 39028

Atlas Sheet Coordinates
29 13 : 587

OWNER KELLY, RUSSELL D
Address 521 TINTON AVE
City TINTON FALLS State NJ Zip Code

WELL LOCATION ADDRESS 521 TINTON AVE Owner's Well No.
County MONMOUTH Municipality TINTON FALLS BO Lot No. 7 Block No. 54

WELL USE DOMESTIC REPLACEMENT
DATE WELL STARTED 8 / 6 / 98
DATE WELL COMPLETED 8 / 6 / 98

WELL CONSTRUCTION

Total Depth Drilled 186 ft.
Finished Well Depth 186 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1.0 ft. above grade or
ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1.0	166	4	PVC	SCHED.40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	166	181	4	PVC	SCHED.40
Blank Casings (No. Used)					
Tail Piece	181	186	4	PVC	SCHED.40
Gravel Pack	156	186	8.5	BLENDED	.025
Grout	3.5	156	8.5	Neat Cement Bentonite	lbs 650 lbs

RECORD OF TEST

Test Date 8 / 6 / 98
Static Water Level 70 ft. below land surface
Water Level Measured Using MEASURED TAPE
Pumping Water Level 144 ft. below land surface
Well Was Pumped Using AIR LIFT
Well Yield 35 gpm
If Pump Tested: Discharge Rate gpm
Duration of Test hours

Grouting Method PRESSURE THROUGH TREMIE PIPE
Drilling Method MUD ROTARY

PERMANENT PUMPING EQUIPMENT

Installed by T. CASTELLANO Reg. No. 0016656
Pump Type SUBMERSIBLE
Depth of Pump below land surface 120 ft.
Capacity 20 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING
Well Driller (Print) BENJAMIN PRIMOST
Driller's Signature
Registration No. M 13762 Date 9 / 15 / 98

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-5 TAN-GREEN SILTY CLAY
5-15 TAN GREEN SILTY CLAY W/ BLACK SAND
15-35 HARD GREEN CLAY
35-40 HARD GREEN CLAY W/ BLACK SAND
40-75 CEMENTED GREEN SAND
75-150 SILTY GRAY CLAY
150-186 FINE GRAY SAND

COPIES: White - DEP 9/24/98 Canary - Driller 9/24/98 Pink - Owner Goldenrod - Health Dept. 9/24/98

9/21/98

DWR-138
5/95

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 — 39376

Atlas Sheet Coordinates 29 : 13 : 577

OWNER TINTON FALLS BD OF EDUC
Address 658 TINTON AVE
City TINTON FALLS State NJ Zip Code

WELL LOCATION ADDRESS 674 TINTON AVE Owner's Well No.
County MONMOUTH Municipality TINTON FALLS BO Lot No. 1 Block No. 73

WELL USE IRRIGATION

DATE WELL STARTED 10 / 1 / 98
DATE WELL COMPLETED 10 / 1 / 98

WELL CONSTRUCTION

Total Depth Drilled 329 ft.
Finished Well Depth 329 ft.
Borehole Diameter: Top 8.5 in. Bottom 8.5 in.
Well Casing Begins: ft. above grade or 1.0 ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	1.0	304	4	PVC	SCHED.40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	304	324	4	PVC	SCHED.40
Blank Casings (No. Used)					
Tail Piece	324	329	4	PVC	SCHED.40
Gravel Pack	294	329	8.5	BLENDED	.025
Grout	3.5	294	8.5	Neat Cement / Bentonite	lbs / 1250 lbs

RECORD OF TEST

Test Date 10 / 1 / 98
Static Water Level 33 ft. below land surface
Water Level Measured Using MEASURED TAPE
Pumping Water Level 243 ft. below land surface
Well Was Pumped Using AIR LIFT
Well Yield 150 gpm
If Pump Tested: Discharge Rate gpm
Duration of Test hours

Grouting Method PRESSURE THROUGH TREMIE PIPE
Drilling Method MUD ROTARY

PERMANENT PUMPING EQUIPMENT

Installed by D. ULBRICHT Reg. No. JD 0523
Pump Type SUBMERSIBLE
Depth of Pump below land surface 169 ft.
Capacity 65 gpm Horsepower 7-1/2

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING
Well Driller (Print) NORMAN PRIMOST
Driller's Signature Norman Primost
Registration No. M1040 Date 10 / 28 / 98

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10 CLAYEY OCHLE MED SAND
10-40 GREEN CLAY
40-60 GREEN CLAY & COARSE GREEN SAND
60-90 COARSE & MED GREEN SAND W/SOME GREEN SILTY CLAY
90-100 COARSE & MED. GREEN SAND W/SOME GREEN SILTY CLAY W/SOME GRAY CLAY
100-150 GRAY CLAY
150-195 FINE & MED GRAY SILTY SAND
195-225 FINE & MED GRAY SILTY SAND W/MORE GRAY SILTY CLAY
225-240 FINE & MED GRAY SILTY SAND W/FINE GRAY SAND
240-260 GRAY CLAY
260-285 GRAY CLAY W/SOME FINE GRAY SAND
285-300 GRAY CLAY W/SOME LENSES OF FINE GRAY SAND & TRACE LIGNITE
300-329 FINE GRAY SAND

COPIES: White - DEP 10/30/98 Canary - Driller 10/30/98 Pink - Owner Goldenrod - Health Dept. 10/30/98

DWR-138 M
11/98

DMQ

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 39917

Atlas Sheet Coordinates 29 13 843

OWNER IDENTIFICATION - Owner MONMOUTH CTY DEPT BLDG &
Address 250 CENTER ST
City FREEHOLD State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW7
County MONMOUTH Municipality TINTON FALLS BO Lot No. 21.01 Block No. 97
Address PINEBROOK RD

DATE WELL STARTED 2/ 12/ 99
DATE WELL COMPLETED 2/ 12/ 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well UST Case I.D.# 92-11-23-1317

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) PMK Group Consulting Engineers Tele. #

WELL CONSTRUCTION

Total depth drilled 11' ft.
Well finished to 11' ft.

Borehole diameter:
Top 6" in.
Bottom 6" in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Was steel protective casing installed?
☐ Yes ☒ No

Static water level after drilling 3' ft.

Water level was measured using Tape

Well was developed for 1 Hour hours
at 2 gpm

Method of development Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity ____ gpm

Pump type: ____

Drilling Fluid ____ Type of Rig B-57

Health and Safety Plan submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0'	1'	2"	PVC	Sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	1'	11'	2"	PVC	~~Sch. 40~~ .020 Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	6"	11'		Morie #2	
Grout	0'	6"		Neat Cement Bentonite	94 lbs. 5 lbs.

Grouting Method Gravity
Drilling Method Auger

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

See Attached

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT WELL DRILLING CO INC

Well Driller (Print) John Vogt

Driller's Signature John Vogt

Registration No. 1544 Date 2/ 16/ 99

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

SUMMIT DRILLING CO., INC.
ENVIRONMENTAL SPECIALISTS

Central Jersey Industrial Park
Chimney Rock Road, Bldg. 9W
Bound Brook, NJ 08805
Telephone: (908) 722-4266
Toll Free: (800) 242-6648
FAX: (732) 356-1009

WELL LOG

WELL: MW7 DATE DRILLED: 02/12/1999 COORD #1: 29.13.843 PERMIT #1: 29-39917
COORD #2: PERMIT #2: COUNTY: Monmouth
SITE: Monmouth Cty Hwy District #3/6, Pinebrook Road, , Tinton Falls, NJ XSTREET:
OWNER: Monmouth County Dept. of , 250 Center Street, , Freehold, NJ 07728 USE: Monitoring

INNER CASING: PVC
DIAMETER: 2"
LENGTH: 1'

SET WELL: 11'
GRAVEL PK SZ: Morie #2
DRILLER: John Vogt
SURFACE COMPLETION: M

OUTER CASING:
DIAMETER:
LENGTH:

GAL PER MIN: 2
STAT H2O LVL: 3'

DEVELOPMENT METHOD: Pump
DEVELOPMENT TIME: 1 Hour

SCREEN TYPE 1: PVC
SCREEN TYPE 2:
DIAMETER: 2"
LENGTH 1: 10'
LENGTH 2:
SLOT SIZE: .020

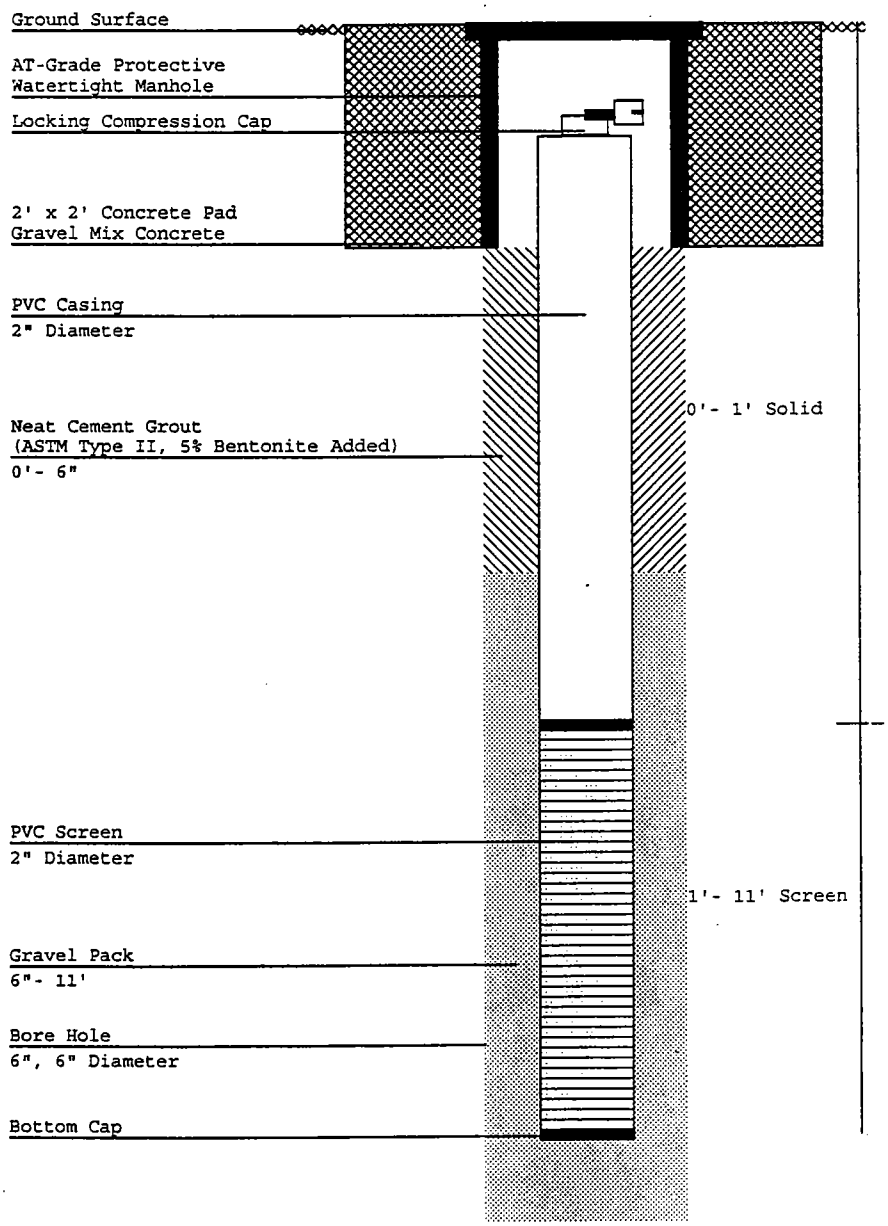
CASING SEAL: Portland
OPEN HOLE:

DRILLING METHOD: Auger
SAMPLING METHOD:
HOLE DIA: 6", 6"
TOTAL DEPTH: 11'

DEPTH BELOW SURFACE FROM - TO	BLOWS PER 6" ON SAMPLER
-	

REMARKS / SOILS IDENTIFICATION

0'- 11' Brown sand & gravel.



DWR-138
5/95

E
ML

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number
29 — 40203

Atlas Sheet Coordinates
29 : 13 : 813

OWNER UNITED STATES GOV.
Address FORT MONMOUTH GOV. RESERVATION
City TINTON FALLS State NJ Zip Code
WELL LOCATION ADDRESS CHARLES WOOD AREA **Owner's Well No.** #1-62
County ~~MONMOUTH~~ Municipality ~~TINTON FALLS BO~~ Lot No. ~~N/A~~ Block No. ~~N/A~~
WELL USE GEOTHERMAL/HEAT PUMP

DATE WELL STARTED 4 / 2 / 99
DATE WELL COMPLETED 12 / 01 / 99

WELL CONSTRUCTION

Total Depth Drilled 304 ft.

Finished Well Depth 304 ft.

Borehole Diameter:
Top 6 in.
Bottom 6 in.

Well Casing Begins:
_____ ft. above grade or
_____ ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	304	1"	HDPE	SDR11
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)					
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack				Geothermal sand	
Grout Bentonite Thermal	0	304	6"	~~Neat Cement~~ Bentonite	2600 lbs 650 lbs

RECORD OF TEST

Test Date N/A / ____ / ____
Static Water Level _____ ft. below land surface
Water Level Measured Using _____
Pumping Water Level _____ ft. below land surface
Well Was Pumped Using _____
Well Yield _____ gpm
If Pump Tested: Discharge Rate _____ gpm
Duration of Test _____ hours

Grouting Method tremie grout
Drilling Method mud rotary

PERMANENT PUMPING EQUIPMENT

Installed by N/A Reg. No. _____
Pump Type _____
Depth of Pump below land surface _____ ft.
Capacity _____ gpm Horsepower _____

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HARDIN-HUBER, INC.
Well Driller (Print) Jeff Corron
Driller's Signature Jeff Corron
Registration No. 1428-1176 Date 1 / 13 / 99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0 - 304 Gray silty fine to medium sand.

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/98

E
DMQ

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 40281

Atlas Sheet Coordinates 29 : 13 677

OWNER IDENTIFICATION - Owner CONNELY, DENNIS
Address 84 HIGH ST.
City EATONTOWN State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW - 1
County MONMOUTH Municipality EATONTOWN BORO Lot No. 21 Block No. 56
Address 84 HIGH ST.

DATE WELL STARTED 4 / 21 / 99
DATE WELL COMPLETED 4 / 21 / 99

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 30 ft.
Well finished to 30 ft.

Borehole diameter:
Top 12 in.
Bottom 12 in.

Well was finished: ☐ above grade ☒ flush mounted

If finished above grade, casing height (stick up) above land surface NA ft.

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling 18 ft.

Water level was measured using TAPE

Well was developed for .5 hours at 5 gpm

Method of development MOYNO

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Fluid NONE Type of Rig A300

Health and Safety Plan submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	15	4	PVC	SCH. 40
Middle Casing (for triple cased wells only)	NA				
Outer Casing (largest diameter)	NA				
Open Hole or Screen (No. Used)	15	30	4	PVC	.020 SLOT
Blank Casings (No. Used)	NA				
Tail Piece	NA				
Gravel Pack	14	30	12	#2 SAND	
Grout	0	14	12	Neat Cement / Bentonite	— lbs. / 105 lbs.

Grouting Method TREMIE
Drilling Method HSA

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company GARY PARENT/SHORE DRLG. INC.

Well Driller (Print) GARY PARENT

Driller's Signature Gary Parent

Registration No. MD 1540 Date 5 / 2 / 99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-6" GRASS/TOPSOIL
6"-10' BRN MD SD.
10'-25' LT BRN MD SD
25'-30' DRK GREY/BLK CLAYEE SILT

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

4/13/99

DWR-138
5/95

E
MES

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 - 40296

Atlas Sheet Coordinates 29 : 13 : 587

OWNER LANE, JOHN

Address 525 TINTON AVE.

City TINTON FALLS State NJ Zip Code

WELL LOCATION ADDRESS 525 TINTON AVE. **Owner's Well No.**

County ~~MONMOUTH~~ Municipality ~~TINTON FALLS BO~~ Lot No. ~~7.01~~ Block No. ~~54~~

WELL USE DOMESTIC

DATE WELL STARTED 5/05/99

DATE WELL COMPLETED 5/05/99

WELL CONSTRUCTION

Total Depth Drilled 191 ft.

Finished Well Depth 191 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1.0 ft. above grade or
_____ ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1.0	166	4	PVC	SCHED. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	166	186	4	PVC	SCHED. 40
Blank Casings (No. Used)					
Tail Piece	186	191	4	PVC	SCHED. 40
Gravel Pack	156	191	8.5	BLENDED	.025
Grout	3.5	156	8.5	Neat Cement / Bentonite	lbs / 650 lbs

RECORD OF TEST

Test Date 5/05/99

Static Water Level 21 ft. below land surface

Water Level Measured Using MEASURED TAPE

Pumping Water Level 152 ft. below land surface

Well Was Pumped Using AIR LIFT

Well Yield 50 gpm

If Pump Tested: Discharge Rate _____ gpm

Duration of Test _____ hours

Grouting Method PRESSURE THROUGH TREMIE PIPE

Drilling Method MUD ROTARY

PERMANENT PUMPING EQUIPMENT

Installed by S. FOSTER Reg. No. M1115

Pump Type SUBMERSIBLE

Depth of Pump below land surface 120 ft.

Capacity 20 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING

Well Driller (Print) BENJAMIN PRIMOST A-1

Driller's Signature

Registration No. M13762 Date 6/09/99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-70 GREEN/BLACK CLAY/BLACK SAND
70-150 GRAY CLAY
150-170 FINE & MED. BLACK SAND
170-191 FINE GRAY SAND w/GREEN PEBBLES

COPIES: White - DEP 6/21/99 Canary - Driller 6/21/99 Pink - Owner Goldenrod - Health Dept. 6/21/99

DWR-138
5/95

E
ML

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number
29 — 40473

Atlas Sheet Coordinates
29 : 13 : 813

OWNER UNITED STATES GOV
Address FORT MONMOUTH GOV RESERVATION
City TINTON FALLS State NJ Zip Code

WELL LOCATION ADDRESS CHARLES WOOD AREA MAIN ST **Owner's Well No.** #1-24
County ~~MONMOUTH~~ Municipality ~~TINTON FALLS BO~~ Lot No. ~~N/A~~ Block No. ~~N/A~~
WELL USE CLOSED LOOP

DATE WELL STARTED 5 / 10 / 99
DATE WELL COMPLETED 12 / 15 / 99

WELL CONSTRUCTION

Total Depth Drilled 304 ft.

Finished Well Depth 304 ft.

Borehole Diameter:
Top 6 in.
Bottom ~~6~~ in.

Well Casing Begins:
_____ ft. above grade or
_____ ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	304	1"	HDPE	SDR11
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)					
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack				Geothermal sand	
Grout Bentonite Thermal	0	304	6"	~~Neat Cement~~ Bentonite	~~2600~~ lbs ~~650~~ lbs

RECORD OF TEST

Test Date ~~N/A~~ / /
Static Water Level _____ ft. below land surface
Water Level Measured Using _____
Pumping Water Level _____ ft. below land surface
Well Was Pumped Using _____
Well Yield _____ gpm
If Pump Tested: Discharge Rate _____ gpm
Duration of Test _____ hours

Grouting Method tremie grout
Drilling Method mud rotary

PERMANENT PUMPING EQUIPMENT

Installed by N/A Reg. No. _____
Pump Type _____
Depth of Pump below land surface _____ ft.
Capacity _____ gpm Horsepower _____

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ~~HARDIN-HUBER, INC.~~
Well Driller (Print) Jeff Corron
Driller's Signature Jeff Corron
Registration No. 1428-1176 Date 1 / 13 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0 - 304 Gray silty fine to medium sand

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138
5/95

E
ML

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 40917

Atlas Sheet Coordinates 29 13 868

OWNER GUHL, THOMAS

Address 151 NOTTINGHAM DRIVE

City EATONTOWN State NJ Zip Code 07724

WELL LOCATION ADDRESS 151 NOTTINGHAM DRIVE **Owner's Well No.** 1

County ~~MONMOUTH~~ Municipality ~~EATONTOWN BORO~~ Lot No. ~~27~~ Block No. ~~93.6~~

WELL USE IRRIGATION

DATE WELL STARTED 10 / 6 / 99

DATE WELL COMPLETED 10 / 6 / 99

WELL CONSTRUCTION

Total Depth Drilled 80 ft.

Finished Well Depth 80 ft.

Borehole Diameter:
Top 8.5 in.
Bottom 8.5 in.

Well Casing Begins:
1½ ft. above grade or
_____ ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+1½	57	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used .015)	57	77	4	PVC	SCH 40
Blank Casings (No. Used)					
Tail Piece	77	80	4	PVC	SCH 40
Gravel Pack	53	80	8.5	FILTER GRAVEL	#1
Grout	4	53	8.5	Neat Cement / Bentonite	— lbs / 150 lbs

RECORD OF TEST

Test Date 10 / 6 / 99

Static Water Level 26 ft. below land surface

Water Level Measured Using M-SCOPE SNAPLINE

Pumping Water Level 55 ft. below land surface

Well Was Pumped Using AIR

Well Yield 150 gpm

If Pump Tested: Discharge Rate _____ gpm

Duration of Test _____ hours

Grouting Method PRESSURE TREMIE

Drilling Method D C ROTARY

PERMANENT PUMPING EQUIPMENT

Installed by DAVID VAN HUNT Reg. No. JD1448

Pump Type SUBMERSIBLE

Depth of Pump below land surface 50 ft.

Capacity 70 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TIGER CONSTRUCTION CORP

Well Driller (Print) DENNIS B. DAVIS

Driller's Signature [signature]

Registration No. MD0987 Date 10 / 7 / 99

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-2 BROWN SANDY SAND
2-19 REDDISH-BROWN F-M QUARTZ SAND TR. CLAY / SILT & INDURATED 15-19'
19-25 LIGHTLY INDURATED GREEN F-M WEATHERED & GLAUCONITIC QUARTZ SAND
25-77 F-M+ GLAUCONITIC WEATHERED GREEN QUARTZ SAND / VINCENTOWN
77-80 SILTY FINE SAND W/ VARIOUS GLAUCONITE TR. CLAY

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

1/21/00

DWR-138
5/95

E
ML

New Jersey Department of Environmental Protection
Bureau of Water Allocation

WELL RECORD

Well Permit Number 29 - 42087

Atlas Sheet Coordinates 29 . 13 . 857

OWNER MANN, ANDRE

Address 2516 AUTUMN DRIVE

City MANASQUAN State NJ Zip Code

WELL LOCATION ADDRESS 2516 AUTUMN DRIVE **Owner's Well No.**

County MONMOUTH Municipality WALL TWP. Lot No. 37 Block No. 876

WELL USE IRRIGATION

DATE WELL STARTED 02 / 17 / 00

DATE WELL COMPLETED 02 / 17 / 00

WELL CONSTRUCTION

Total Depth Drilled 125 ft.

Finished Well Depth 125 ft.

Borehole Diameter:
Top 8.0 in.
Bottom 8.0 in.

Well Casing Begins:
____ ft. above grade or
1.0 ft. below grade

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	1.0	110	4	PVC	SCHED.40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	110	120	4	PVC	SCHED.40
Blank Casings (No. Used)					
Tail Piece	120	125	4	PVC	SCHED.40
Gravel Pack	100	125	8.0	BLENDED	.025
Grout	3.5	100	8.0	Neat Cement / Bentonite	___ lbs / 400 lbs

RECORD OF TEST

Test Date 02 / 17 / 00

Static Water Level 41 ft. below land surface

Water Level Measured Using MEASURED TAPE

Pumping Water Level 88 ft. below land surface

Well Was Pumped Using AIR LIFT

Well Yield 100 gpm

If Pump Tested: Discharge Rate ____ gpm

Duration of Test ____ hours

Grouting Method PRESSURE THROUGH TREMIE PIPE

Drilling Method MUD ROTARY

PERMANENT PUMPING EQUIPMENT

Installed by W. HOLMSTROM Reg. No. 0019979

Pump Type SUBMERSIBLE

Depth of Pump below land surface 65 ft.

Capacity 20 gpm Horsepower 1

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company PICKWICK WELL DRILLING

Well Driller (Print) JOHN MURTHA

Driller's Signature John Murtha

Registration No. JD 21245 Date 04 / 10 / 00

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-10 TAN SAND W/ OCHRE CLAY
10-60 COARSE TAN SAND
60-65 OCHRE CLAY
65-80 TAN SAND
80-100 BROWN CLAY
100-105 FINE GRAY SAND
105-125 FINE & MED. GRAY SAND W/ LIGNITE

COPIES: White - DEP 4/12/00 Canary - Driller 4/12/00 Pink - Owner Goldenrod - Health Dept. 4/12/00

DWR-138 M
11/98

E
ML

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 -42585

Atlas Sheet Coordinates 29 : 13 822

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW6
County MONMOUTH Municipality TINTON FALLS BO Lot No. N/A Block No. N/A
Address 2567 LABORATORY RD

DATE WELL STARTED 5/12/00
DATE WELL COMPLETED 5/12/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) M. Laura Tele. #

WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? ☒ Yes ☐ No

Static water level after drilling 4 ft.

Water level was measured using M-tape

Well was developed for 1 hours at 1 gpm

Method of development Sebpump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig B-59

Health and Safety Plan submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one) None D C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+3	3	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	3	13	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	1	13	—	morie #1	350 lbs
Grout	0	1	—	Neat Cement	50 lbs.
				Bentonite	lbs.

Grouting Method Gravity
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-13 Med-Fine sand

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company INLAND POLLUTION SERVICES INC

Well Driller (Print) Michael A Kemosinski

Driller's Signature [signature]

Registration No. 5242 Date 5/12/00

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/98

E
ML

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 42586

Atlas Sheet Coordinates 29 : 13 822

OWNER IDENTIFICATION - Owner US ARMY
Address 173 RIVERSIDE AVE
City FT MONMOUTH State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 7
County MONMOUTH Municipality TINTON FALLS BO Lot No. N/A Block No. N/A
Address 2567 LABORATORY RD

DATE WELL STARTED 5/12/00
DATE WELL COMPLETED 5/12/00

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) M. Lang Tele. #

WELL CONSTRUCTION

Total depth drilled 13 ft.
Well finished to 13 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: ☑ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface 3 ft.

Was steel protective casing installed? ☑ Yes ☐ No

Static water level after drilling 4 ft.

Water level was measured using m-tape

Well was developed for 1 hours at 1 gpm

Method of development Sub pump

Was permanent pumping equipment installed? ☐ Yes ☑ No

Pump capacity N/A gpm

Pump type: N/A

Drilling Fluid None Type of Rig B-59

Health and Safety Plan submitted? ☐ Yes ☑ No

Level of Protection used on site (circle one) None D C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+3	3	4	PVC	Sch 40
Middle Casing (for triple cased wells only)	—	—	—	—	—
Outer Casing (largest diameter)	—	—	—	—	—
Open Hole or Screen (No. Used 1)	3	13	4	PVC	Sch 40
Blank Casings (No. Used)	—	—	—	—	—
Tail Piece	—	—	—	—	—
Gravel Pack	1	13	—	Morie #1	350 lbs
Grout	0	1	—	Neat Cement	50 lbs.
				Bentonite	lbs.

Grouting Method Gravity
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0-13 Med Fine Sand

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company INLAND POLLUTION SERVICES INC

Well Driller (Print) Michael A Komosinski

Driller's Signature

Registration No. U2420 Date 5/12/00

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-138 M
11/98

E
ML

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 29 - 44268

Atlas Sheet Coordinates 29 : 14 : 586

OWNER IDENTIFICATION - Owner NEW JERSEY NATURAL GAS
Address 1415 WYCKOFF RD
City WALL TWP. State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW35
County MONMOUTH Municipality LONG BRANCH CIT Lot No. 6.01 Block No. 309
Address OFF LONG BRANCH AVE

DATE WELL STARTED 1 / 29 / 01
DATE WELL COMPLETED 1 / 29 / 01

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well Case I.D.#

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) ARCADIS Geraghty & Miller, Inc. Tele. #

WELL CONSTRUCTION

Total depth drilled 15' ft.
Well finished to 15' ft.

Borehole diameter:
Top 10" in.
Bottom 10" in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Was steel protective casing installed?
☐ Yes ☒ No

Static water level after drilling 6' ft.

Water level was measured using Tape

Well was developed for 1/2 hours
at 1/2 gpm

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0'	5'	2"	PVC	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	5'	15'	2"	PVC	.010 sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3'	15'		Morie #2	
Grout	0'	3'		Neat Cement Bentonite	94 lbs. 5 lbs.

Grouting Method gravity
Drilling Method Auger

Method of development pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity ____ gpm

Pump type: ____

Drilling Fluid ____ Type of Rig CME

Health and Safety Plan submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company SUMMIT WELL DRILLING CO INC

Well Driller (Print) Jim Burton

Driller's Signature Jim Burton

Registration No. J13752 Date 2 / 22 /01

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

See Attached

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Summit DRILLING CO., INC.
ENVIRONMENTAL SPECIALISTS

Chimney Rock Road, Bldg. 9W
Bound Brook, NJ 08805
Telephone: (908) 722-4266
Toll Free: (800) 242-6648
FAX: (732) 356-1009
http://www.summitdrilling.com
email: info@summitdrilling.com

WELL LOG

WELL: MW35 DATE DRILLED: 01/29/2001 COORD #1: 29.14.586 PERMIT #1: 29-44268
COORD #2: PERMIT #2: COUNTY:
SITE: Vacant Property, Off Long Branch Avenue, , Long Branch, NJ XSTREET:
OWNER: New Jersey Natural Gas, 1415 Wyckoff Road, , Wall, NJ 07719 USE: Monitor

INNER CASING: PVC
DIAMETER: 2"
LENGTH: 5'

OUTER CASING:
DIAMETER:
LENGTH:

SCREEN TYPE 1: PVC
SCREEN TYPE 2:
DIAMETER: 2"
LENGTH 1: 10'
LENGTH 2:
SLOT SIZE: .010

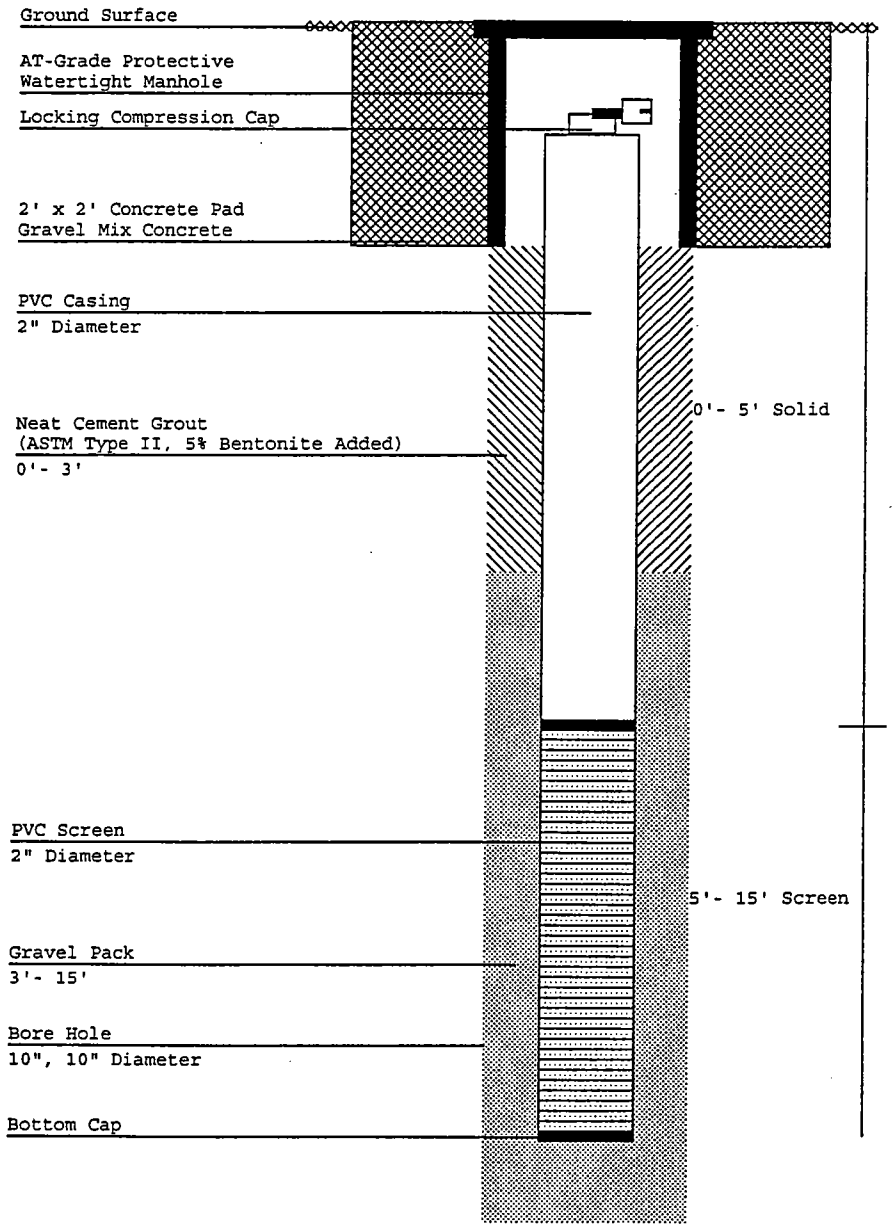
DRILLING METHOD: Auger
SAMPLING METHOD:
HOLE DIA: 10", 10"
TOTAL DEPTH: 15'

SET WELL: 15'
GRAVEL PK SZ: Morie #2
DRILLER: Jim Burton
SURFACE COMPLETION: M

GAL PER MIN: 1/2
STAT H2O LVL: 6'
DEVELOPMENT METHOD: pump
DEVELOPMENT TIME: 1/2

CASING SEAL: Portland
OPEN HOLE:

DEPTH BELOW SURFACE FROM - TO	BLOWS PER 6" ON SAMPLER
0' - 2'	3-4-5-4
2' - 4'	4-3-4-2
4' - 6'	2-3-2-3
6' - 8'	2-1-1-1
8' - 10'	WOH
10' - 12'	WOh
12' - 14'	1-3-3-4

REMARKS / SOILS IDENTIFICATION

0'- 4' Fill material.
4'- 9' Light brown f/m sand some silt.
9'- 13' Light brown silty clay.
13'- 15' Black silty clay.