APPENDIX B

Site Investigation Data Evaluated in the BEE

Table B-1
Fort Monmouth Phase II Site Investigation, Parcel 43
Summary of Analytical Parameters Detected in Sediment (mg/kg)

			Analytical Results		
		Sample ID:	P43-SD1	P43-SD2	P43-SD3
		Lab ID:	7054801	7054803	7054805
		Date Sampled:	12/19/2007	12/19/2007	12/19/2007
		Depth (ft. bgs):	0.0-0.5	0.0-0.5	0.0-0.5
	ESC				
Chemical	FW-SED	SW-SED	Result	Result	Result
Volatiles					
Acetone	NAV	NAV	0.330 J	0.220 J	0.330 J
Methylene Chloride	0.159	NAV	0.086 JB	0.072 JB	0.520 U
Semi-Volatiles					
Anthracene	0.22	0.085	**0.150 J**	1.400 U	2.100 U
Benzo[a]anthracene	0.32	.261	**0.610 J**	0.200 J	**0.510 J**
Benzo[a]pyrene	0.37	0.43	**0.610 J**	0.190 J	**0.510 J**
Benzo[b]fluoranthene	10.4	1.8	1.100 J	0.210 J	1.000 J
Benzo[k]fluoranthene	0.24	0.24	**0.340 J**	0.160 J	**0.390 J**
bis(2-Ethylhexyl)phthalate	0.182	0.18216	**0.780 JB**	**0.440 JB**	**1.400 JB**
Chrysene	0.34	0.384	**0.860 J**	0.250 J	**0.880 J**
Di-n-butylphthalate	1.114	0.058	1.800 U	**0.098 JB**	2.100 U
Fluoranthene	0.75	0.6	**1.400 J**	0.380 J	**1.300 J**
Phenanthrene	0.56	0.24	**0.700 J**	0.210 J	**0.520 J**
Pyrene	0.49	0.665	**1.600 J**	0.450 J	**1.400 J**
Metals					
Aluminum	25500	18000	13700 B	14500 B	16400 B
Arsenic	6	8.2	**7.48**	**10.2**	**7.99**
Barium	NAV	48	**83.5 B**	**52.4 B**	**67.0 B**
Beryllium	NAV	NAV	3.22	2.01	2.97
Cadmium	0.6	1.2	**1.86**	0.358	**1.67**
Calcium	NAV	NAV	2320 B	1490 B	1300 B
Chromium (Total)	26	81	**155 B**	**161 B**	**155 B**
Cobalt	50	10	**20.1**	**15.7**	6.01
Copper	16	34	**39.4 B**	**53.6 B**	**29.1 B**
Iron	NAV	NAV	66800 B	47800 B	39600 B
Lead	31	47	**74.6**	**116**	**45.0**
Magnesium	NAV	NAV	5490	5170	5190
Manganese	630	260	152 B	140 B	31.6 B
Mercury	0.2	0.15	**0.47**	**0.25**	**0.28**
Nickel (Soluble Salts)	16	21	**36.4**	**28.3**	**23.7**
Potassium	NAV	NAV	10700 B	9580 B	10200 B
Vanadium	NAV	57	**79.1**	**81.1**	**75.4**
Zinc	120	150	**286 B**	108 B	**252 B**

Exceedances of freshwater sediment quality criteria are bold and shaded.
Exceedances of saltwater sediment quality criteria are bold with a bold border.
DUP = Duplicate Sample
ESC = Ecological Screening Criteria (see Section 3.3)
FW-SED = Fresh Water-Sediment
SW-SED = Salt Water-Sediment
ft. bgs = feet below ground surface
mg/kg = milligram per kilogram
B = The compound was found in the associated method blank as well as in the sample.
D = Sample was diluted.
E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.
J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
U = The compound was analyzed for but not detected.
NT = Not Tested
NAV = No Available Value

Table B-2
Fort Monmouth Phase II Site Investigation, Parcel 39
Summary of Analytical Parameters Detected in Soil (mg/kg)

		Analytical Results
	Sample ID:	P39-SS1
	Lab ID:	8000805
	Date Sampled:	1/8/2008
	Depth (ft. bgs):	0.0-0.5
Chemical	ESC	Result
Semi-Volatiles		
bis(2-Ethylhexyl)phthalate	0.925	0.570 J
Di-n-butylphthalate	200	0.780 J
Fluoranthene	122	0.120 J
Pyrene	78.5	0.290 J
Metals		
Aluminum	50	**7450 B**
Arsenic	9.9	3.43
Barium	283	50.6 B
Beryllium	10	1.78
Cadmium	0.36	**1.56**
Calcium	NAV	1480 B
Chromium (Total)	0.4	**94.0**
Cobalt	13	**31.9**
Copper	28	27.7 B
Iron	NAV	26400
Lead	11	**80.0**
Magnesium	NAV	3000
Manganese	220	15.9
Mercury	0.00051	**0.21**
Nickel (Soluble Salts)	30	22.1
Potassium	NAV	7170
Vanadium	2	**41.8**
Zinc	8.5	**140 B**

Exceedances of Eco-SSL soil criteria are bold and shaded.

DUP = Duplicate Sample

ESC = Ecological Screening Criteria (see Section 3.3)

ft. bgs = feet below ground surface

mg/kg = milligram per kilogram

B = The compound was found in the associated method blank as well as in the sample.

D = Sample was diluted.

E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.

J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

U = The compound was analyzed for but not detected.

NT = Not Tested

NAV = No Available Value

Table B-3
Fort Monmouth Phase II Site Investigation, Parcel 39
Summary of Analytical Parameters Detected in Sediment (mg/kg)

			Analytical Results	
		Sample ID:	P39-SD1	P39-SD2
		Lab ID:	8000801	8000803
		Date Sampled:	01/08/2008	01/08/2008
		Depth (ft. bgs):	0.0-0.5	0.0-0.5
	ESC			
Chemical	FW-SED	SW-SED	Result	Result
Semi-Volatiles				
Benzo[a]anthracene	0.32	0.261	0.260 J	**0.540 J**
Benzo[a]pyrene	0.37	0.43	1.300 U	2.100 U
Benzo[b]fluoranthene	10.4	1.8	1.300 U	1.100 J
bis(2-Ethylhexyl)phthalate	0.182	0.18216	**2.100**	**1.300 J**
Chrysene	0.34	0.384	**0.370 J**	**0.710 J**
Di-n-butylphthalate	1.114	0.058	**0.950 J**	**1.900 J**
Fluoranthene	0.75	0.6	0.440 J	**0.990 J**
Phenanthrene	0.56	0.24	**0.260 J**	**0.670 J**
Pyrene	0.49	0.665	**1.000 J**	**2.000 J**
Metals				
Aluminum	25500	18000	4710 B	13900 B
Arsenic	6	8.2	2.28	**8.89**
Barium	NAV	48	26.8 B	**96.4 B**
Beryllium	NAV	NAV	0.638	3.34
Cadmium	0.6	1.2	**0.629**	**1.85**
Calcium	NAV	NAV	3150 B	2390 B
Chromium (Total)	26	81	**44.2**	**131**
Cobalt	50	10	3.92	**14.2**
Copper	16	34	**27.7 B**	**41.0 B**
Iron	NAV	NAV	17200	45600
Lead	31	47	19.5	**61.7**
Magnesium	NAV	NAV	2720	3910
Manganese	630	260	49.6	68.4
Mercury	0.2	0.15	0.120 U	**0.67**
Nickel (Soluble Salts)	16	21	11.6	**32.4**
Potassium	NAV	NAV	3150	7870
Vanadium	NAV	57	31.1	**74.4**
Zinc	120	150	100 B	**210 B**

Exceedances of freshwater sediment quality criteria are bold and shaded.
Exceedances of saltwater sediment quality criteria are bold with a bold border.
DUP = Duplicate Sample
ESC = Ecological Screening Criteria (see Section 3.3)
FW-SED = Fresh Water-Sediment
SW-SED = Surface Water-Sediment
ft. bgs = feet below ground surface
mg/kg = milligram per kilogram
B = The compound was found in the associated method blank as well as in the sample.
D = Sample was diluted.
E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.
J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
U = The compound was analyzed for but not detected.
NT = Not Tested
NAV = No Available Value

Table B-4
Fort Monmouth Phase II Site Investigation, Parcel 49
Summary of Analytical Parameters Detected in Soil (mg/kg)

		Analytical Results												
	Sample ID:	P49-SB1-A	P49-SB2-A	P49-SB3-A	P49-SB4-A	P49-SB5-A	P49-SB6-A	P49-SS7-A	P49-SS8-A	P49-SS9-A	P49-SS10-A	P49-SS11-A	P49-SS12-A	P49-SS13-A
	Lab ID:	7051517	7051603	7051609	7051606	7051613	7051616	7051515	7051513	7051511	7051503	7051505	7051507	7051509
	Date Sampled:	12/06/2007	12/07/2007	12/07/2007	12/07/2007	12/07/2007	12/07/2007	12/06/2007	12/06/2007	12/06/2007	12/06/2007	12/06/2007	12/06/2007	12/06/2007
	Depth (ft. bgs):	0.0-0.5	0.5-1.0	0.0-0.5	0.5-1.0	0.0-0.5	0.5-1.0	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Chemical	ESC	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatiles														
Acenaphthene	20	1.100 U	1.100 U	1.200 U	1.100 U	1.100 U	1.000 U	20.000 JD	0.660 J	0.180 J	1.100 U	1.100 U	1.100 U	1.200 U
Acenaphthylene	682	0.056 J	1.100 U	1.200 U	0.920 J	0.260 J	0.076 J	0.450 J	0.048 J	0.490 J	0.073 J	0.059 J	0.130 J	0.097 J
Anthracene	1480	1.100 U	1.100 U	0.100 J	0.370 J	0.099 J	1.000 U	46.000 JD	1.800	3.000	0.083 J	0.093 J	0.100 J	0.200 J
Benzo[a]anthracene	5.21	0.091 J	1.100 U	0.550 J	2.500	0.420 J	1.000 U	**80.000 D**	3.600	**10.000 JD**	0.470 J	0.350 J	0.380 J	0.810 J
Benzo[a]pyrene	1.52	0.083 J	1.100 U	0.440 J	**2.200**	0.460 J	0.110 J	**54.000 JD**	**2.600**	**9.600**	0.610 J	0.310 J	0.360 J	0.730 J
Benzo[b]fluoranthene	59.8	0.120 J	1.100 U	0.670 J	2.800	0.460 J	0.140 J	**75.000 D**	3.900	9.200 JD	0.960 J	0.430 J	0.580 J	1.200
Benzo[g,h,i]perylene	119	1.100 U	1.100 U	1.200 U	0.900 J	0.260 J	1.000 U	16.000 JD	0.840 J	3.500	1.100 U	1.100 U	1.100 U	1.200 U
Benzo[k]fluoranthene	148	0.038 J	1.100 U	0.260 J	0.890 J	0.160 J	1.000 U	29.000 JD	1.500	6.200	0.340 J	0.220 J	0.220 J	0.490 J
bis(2-Ethylhexyl)phthalate	0.925	0.058 J	1.100 U	0.450 J	1.100 U	0.240 J	1.000 U	1.100 U	0.690 J	1.200 U	0.160 J	0.150 J	0.500 J	0.220 J
Butyl benzyl phthalate	0.239	1.100 U	1.100 U	**1.800**	1.100 U	1.100 U	1.000 U	**0.670 J**	**0.520 J**	1.200 U	1.100 U	1.100 U	1.100 U	1.200 U
Chrysene	4.73	0.120 J	1.100 U	0.610 J	3.500	0.610 J	0.150 J	**79.000 D**	3.700	**10.000 JD**	0.600 J	0.440 J	0.480 J	0.860 J
Dibenz[a,h]anthracene	18.4	1.100 U	1.100 U	1.200 U	1.100 U	1.100 U	1.000 U	2.600	0.340 J	1.300	1.100 U	1.100 U	1.100 U	1.200 U
Dibenzofuran	NAV	1.100 U	1.100 U	1.200 U	1.100 U	1.100 U	1.000 U	12.000	0.390 J	0.340 J	1.100 U	1.100 U	1.100 U	1.200 U
Di-n-butyl phthalate	200	1.500	0.420 JB	0.810 JB	1.800 B	1.700 B	1.000 B	1.100 U	0.630 JB	1.200 B	1.300 B	0.380 JB	1.900 B	0.800 JB
Fluoranthene	122	0.110 J	1.100 U	1.000 J	1.500	0.410 J	0.071 J	**190.000 D**	9.000	23.000 D	0.780 J	0.670 J	0.690 J	1.600
Fluorene	122	1.100 U	1.100 U	1.200 U	0.130 J	1.100 U	1.000 U	17.000 JD	0.640 J	1.200 U	1.100 U	1.100 U	1.100 U	1.200 U
Indeno[1,2,3-cd]pyrene	109	1.100 U	1.100 U	0.160 J	0.680 J	0.180 J	1.000 U	18.000 JD	0.930 J	3.500	1.100 U	1.100 U	1.100 U	1.200 U
2-Methylnaphthalene	3.24	1.100 U	1.100 U	1.200 U	0.098 J	1.100 U	1.000 U	**4.400**	0.130 J	0.240 J	1.100 U	1.100 U	1.100 U	1.200 U
4-Methylphenol	NAV	1.100 U	1.100 U	1.200 U	1.100 U	1.100 U	1.000 U	0.320 J	1.200 U	1.200 U	1.100 U	1.100 U	1.100 U	1.200 U
Naphthalene	0.0994	1.100 U	1.100 U	1.200 U	0.100 J	1.100 U	1.000 U	**11.000**	**0.280 J**	**0.098 J**	1.100 U	1.100 U	1.100 U	1.200 U
Phenanthrene	45.7	0.038 J	1.100 U	0.500 J	0.230 J	0.380 J	1.000 U	**170.000 D**	7.100	13.000	0.270 J	0.370 J	0.380 J	0.750 J
Pyrene	78.5	0.170 J	1.100 U	1.000 J	4.800	0.890 J	0.190 J	**160.000 D**	7.300	20.000 D	1.100 U	0.770 J	1.100 J	2.200
PCBs														
Aroclor 1260	0.371	0.0041 U	0.0042 U	0.34	0.0039 U	0.0040 U	0.0042 U	**0.47**	**8.85**	0.0041 U	0.0041 U	0.0039 U	0.0041 U	0.0041 U
Metals														
Aluminum	50	**12700 B**	**7840 B**	**21600 B**	**13200 B**	**13700 B**	**11500 B**	**15100 B**	**14600 B**	**17500 B**	**7420 B**	**7720 B**	**10500 B**	**7310 B**
Antimony	0.27	0.410 U	0.426 U	0.470 U	0.389 U	0.421 U	0.438 U	0.432 U	0.434 U	0.456 U	0.472 U	0.451 U	0.433 U	0.475 U
Arsenic	9.9	6.32	4.67	**12.8**	6.15	**10.5**	5.10	**10.1**	**10.6**	**17.4**	6.32	7.66	**10.3**	5.23
Barium	283	32.3 B	22.0	54.5	65.0	76.9	26.2	93.6 B	95.5 B	53.8 B	39.7 B	39.4 B	55.0 B	38.4 B
Beryllium	10	1.34	0.899	2.35	1.60	1.06	0.422	1.87	1.61	2.11	0.361	0.381	0.818	0.346
Cadmium	0.36	**1.02**	0.202	**1.81**	**0.444**	**0.786**	0.199	**1.86**	**3.66**	**1.31**	**0.511**	**0.429**	**0.723**	**0.424**
Calcium	NAV	4860 B	1700	11300	11600	13300	758	3750 B	2790 B	2500 B	34800 B	44700 B	23100 B	65400 B
Chromium (Total)	0.4	**104**	**62.2**	**313**	**79.5**	**92.4**	**33.7**	**146**	**144**	**135**	**27.1**	**25.6**	**71.7**	**25.9**
Cobalt	13	3.37	0.968	3.93	1.85	1.47	1.56	1.20	1.55	3.01	2.19	2.36	2.07	2.20
Copper	28	20.9 B	4.63 B	**36.9 B**	9.85 B	**28.3 B**	19.8 B	**73.1 B**	**115 B**	27.3 B	19.5 B	24.3 B	**36.8 B**	26.8 B
Iron	NAV	42300 B	26500	75000	33800	29000	20300	47800 B	43000 B	69500 B	15600 B	13600 B	25400 B	12900 B
Lead	11	**11.7**	5.78	**91.7**	**14.8**	**176**	9.84	**49.1**	**109**	**22.7**	**46.0**	**35.0**	**101**	**49.7**
Magnesium	NAV	6590 B	3040	12700	5370	4320	1200	6220 B	6000 B	6630 B	2830 B	4190 B	4130 B	5610 B
Manganese	220	93.1 B	41.1	53.7	146	104	82.6	68.7 B	120 B	163 B	132 B	115 B	95.9 B	**281 B**
Mercury	0.00051	**0.91**	0.099 U	**1.19**	0.097 U	**0.16**	0.093 U	0.113 U	0.119 U	0.109 U	0.113 U	0.106 U	0.108 U	0.107 U
Nickel (Soluble Salts)	30	9.48 B	4.38	10.7	7.91	9.88	6.69	8.80 B	12.1 B	14.7 B	8.10 B	15.5 B	9.12 B	8.09 B
Potassium	NAV	11400 B	4600 B	22900 B	7220 B	7010 B	1940 B	13200 B	10700 B	13800 B	1320 B	1270 B	5470 B	1280 B
Sodium	NAV	35.545 U	36.920 U	40.728 U	33.720 U	36.475 U	89.8	37.456 U	37.629 U	39.562 U	40.910 U	39.056 U	37.562 U	41.153 U
Vanadium	2	**62.4**	**40.6**	**114**	**48.1**	**58.3**	**43.4**	**74.2**	**71.8**	**85.8**	**32.8**	**33.1**	**46.7**	**32.3**
Zinc	8.5	**75.1 B**	**49.4**	**174**	**74.9**	**304**	**32.9**	**255 B**	**206 B**	**193 B**	**115 B**	**57.9 B**	**190 B**	**64.8 B**

Exceedances of Eco-SSL soil criteria are bold and shaded.

DUP = Duplicate Sample

ESC = Ecological Screening Criteria (see Section 3.3)

ft. bgs = feet below ground surface

mg/kg = milligram per kilogram

B = The compound was found in the associated method blank as well as in the sample.

D = Sample was diluted.

E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.

J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

U = The compound was analyzed for but not detected.

NT = Not Tested

NAV = No Available Value

Table B-5
Fort Monmouth Phase II Site Investigation, Parcel 49
Summary of Analytical Parameters Detected in Groundwater (µg/L)

			Analytical Results						
		Sample ID:	P49-283-MW1	P49-283-MW1 DUP	P49-283-MW3	P49-296-MW7	P49-B4MWOB4	P49-GW-1	P49-GW-2
		Lab ID:	7051808	7051803	7051807	7051806	7051809	7051804	7051805
		Date Sampled:	12/08/2007	12/08/2007	12/08/2007	12/08/2007	12/08/2007	12/08/2007	12/08/2007
		Screened Interval (ft. bgs):	9.8-19.8	9.8-19.8	14.1-24.1	1.8-11.8	7.1-17.1	5-10	9-14
	ESC								
Chemical	FW-SW	SW-SW	Result	Result	Result	Result	Result	Result	Result
Volatiles									
Acetone	NAV	NAV	0.85 U	0.85 U	0.85 U	1.08	0.85 U	14.21	0.85 U
Benzene	114	NAV	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	1.24	0.17 U
Bromodichloromethane	NAV	NAV	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1.35
Chloroform	140	NAV	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	3.47
Ethylbenzene	14	NAV	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.25 J	0.28 U
Methyl ethyl ketone (2-Butanone)	NAV	NAV	0.14 U	0.14 U	0.14 U	0.61	0.14 U	1.35	0.14 U
Toluene	253	NAV	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	1.39	0.27 U
Vinyl Chloride	930	NAV	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.27 J	0.30 U
Xylenes (Total)	27	NAV	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	2.75	0.49 U
Semi-Volatiles									
Benzoic acid	NAV	NAV	0.86 U	0.86 U	0.86 U	6.47	0.86 U	0.86 U	0.86 U
bis(2-Ethylhexyl)phthalate	0.3	NAV	**0.80 J**	**1.04 J**	**6.77**	**3.55**	1.28 U	**25.94**	**1.22 J**
Diethyl phthalate	110	NAV	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	7.70	0.96 U
Naphthalene	13	NAV	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.64 J	0.76 U
Metals									
Aluminum	NAV	NAV	4900	5110	60.8	112	106	NT	NT
Arsenic	150	36	2.70 U	2.70 U	3.68	6.17	2.70 U	NT	NT
Barium	220	NAV	123	126	95.6	8.99	40.2	NT	NT
Beryllium	3.6	NAV	1.28	1.33	0.100 U	0.100 U	0.100 U	NT	NT
Cadmium	NA	8.8	0.550 B	0.592 B	0.273 B	0.297 B	0.626 B	NT	NT
Calcium	NAV	NAV	11900	12300	17100	14600	7140	NT	NT
Cobalt	24	NAV	5.58	5.79	0.200 U	0.200 U	0.200 U	NT	NT
Copper	NA	3.1	2.78	2.65	0.500 U	0.500 U	0.500 U	NT	NT
Iron	NAV	NAV	323 U	323 U	10200	10600	1220	NT	NT
Magnesium	NAV	NAV	22100	22900	3310	3180	2850	NT	NT
Manganese	NAV	NAV	51.6	52.8	49.0	84.9	36.3	NT	NT
Nickel (Soluble Salts)	NA	22	14.4	14.7	7.34	0.300 U	0.300 U	NT	NT
Potassium	NAV	NAV	6570	6810	8500	6830	3470	NT	NT
Selenium	5	71	2.70 U	4.51	2.70 U	2.70 U	3.64	NT	NT
Silver	0.12	1.9	**0.881**	0.800 U	0.800 U	0.800 U	0.800 U	NT	NT
Sodium	NAV	NAV	110000 B	114000 B	8610 B	7430 B	11000 B	NT	NT
Vanadium	12	NAV	0.500 U	0.500 U	0.500 U	0.854	0.500 U	NT	NT
Zinc	NA	81	**103**	**107**	3.58 U	3.58 U	18.3	NT	NT

[1] Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criterion (GWQC) per NJAC 7:9-6, 2005 (* Interim GWQC).

Exceedances of freshwater surface water quality criteria are bold and shaded.

Exceedances of saltwater surface water quality criteria are bold with a bold border.

DUP = Duplicate Sample

ESC = Ecological Screening Criteria (see Section 3.3)

FW-SW = Fresh Water-Surface Water

SW-SW = Salt Water-Surface Water

ft. bgs = feet below ground surface

µg/L = microgram per liter

FW-SW ESC for cadmium, chromium, copper, nickel, and zinc not calculated in saline water.

B = The compound was found in the associated method blank as well as in the sample.

J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

U = The compound was analyzed for but not detected.

NT = Not Tested

NAV = No Available Value

Table B-6
Fort Monmouth Phase II Site Investigation, Parcel 49
Summary of Analytical Parameters Detected in Sediment (mg/kg)

			Analytical Results						
		Sample ID:	P49-SD1-A	P49-SD1-A	P49-SD2-A	P49-SD2-A	P49-SD2-A DUP	P49-SD3-A	P49-SD3-A
		Lab ID:	12/06/2007	12/27/2007	12/06/2007	12/27/2007	12/06/2007	12/06/2007	12/27/2007
		Date Sampled:	7051520	7056801	7051522	7056803	7051502	7051524	7056805
		Depth (ft. bgs):	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
	ESC								
Chemical	FW-SED	SW-SED	Result	Result	Result	Result	Result	Result	Result
Volatiles									
Acetone	NAV	NAV	NT	0.350 U	NT	0.360 U	NT	NT	0.320 U
Semi-Volatiles									
Benzo[a]anthracene	0.32	0.261	0.920 U	NT	2.100 U	NT	2.500 U	0.200 J	NT
Benzo[a]pyrene	0.37	0.43	0.920 U	NT	2.100 U	NT	2.500 U	0.160 J	NT
Benzo[b]fluoranthene	10.4	1.8	0.920 U	NT	2.100 U	NT	2.500 U	0.240 J	NT
Benzo[k]fluoranthene	0.24	0.24	0.920 U	NT	2.100 U	NT	2.500 U	0.091 J	NT
bis(2-Ethylhexyl)phthalate	0.182	0.18216	0.920 U	NT	2.100 U	NT	2.500 U	0.070 J	NT
Chrysene	0.34	0.384	0.920 U	NT	2.100 U	NT	2.500 U	0.230 J	NT
Di-n-butylphthalate	1.114	0.058	**0.890 JB**	NT	**2.400 B**	NT	**0.950 JB**	**1.500 B**	NT
Fluoranthene	0.75	0.6	0.920 U	NT	2.100 U	NT	0.160 J	0.410 J	NT
Phenanthrene	0.56	0.24	0.920 U	NT	2.100 U	NT	2.500 U	0.160 J	NT
Pyrene	0.49	0.665	0.920 U	NT	2.100 U	NT	0.130 J	0.370 J	NT
Metals									
Aluminum	25500	18000	**29200 B**	NT	13900 B	NT	**18500 B**	15600 B	NT
Arsenic	6	8.2	**16.5**	NT	**14.8**	NT	**22.9**	**29.7**	NT
Barium	NAV	48	**96.4 B**	NT	**65.3 B**	NT	**79.0 B**	**83.7 B**	NT
Beryllium	NAV	NAV	4.52	NT	2.42	NT	3.24	1.70	NT
Cadmium	0.6	1.2	**1.65**	NT	**4.92**	NT	**5.55**	**1.02**	NT
Calcium	NAV	NAV	719 B	NT	1690 B	NT	2210 B	1360 B	NT
Chromium (Total)	26	81	**353**	NT	**176**	NT	**243**	**149**	NT
Cobalt	50	10	4.91	NT	**19.4**	NT	**29.3**	2.10	NT
Copper	16	34	**18.9 B**	NT	**82.3 B**	NT	**111 B**	**76.5 B**	NT
Iron	NAV	NAV	120000 B	NT	48900 B	NT	67800 B	49900 B	NT
Lead	31	47	0.432 U	NT	**41.8**	NT	**45.7**	**148**	NT
Magnesium	NAV	NAV	20600 B	NT	7610 B	NT	10800 B	6190 B	NT
Manganese	630	260	44.8 B	NT	24.2 B	NT	28.3 B	61.7 B	NT
Mercury	0.2	0.15	0.124 U	NT	**0.49**	NT	**0.53**	**0.23**	NT
Nickel (Soluble Salts)	16	21	13.1 B	NT	**44.0 B**	NT	**68.5 B**	11.3 B	NT
Potassium	NAV	NAV	40800 B	NT	15800 B	NT	22600 B	11800 B	NT
Silver	1	1	0.203 U	NT	**1.40**	NT	0.407 U	0.208 U	NT
Sodium	NAV	NAV	219	NT	69.037 U	NT	92.593 U	47.409 U	NT
Vanadium	NAV	57	**125**	NT	**82.3**	NT	**118**	**79.3**	NT
Zinc	120	150	**139 B**	NT	**1320 B**	NT	**2090 B**	117 B	NT

Exceedances of freshwater sediment quality criteria are bold and shaded.
Exceedances of saltwater sediment quality criteria are bold with a bold border.
DUP = Duplicate Sample
ESC = Ecological Screening Criteria (see Section 3.3)
FW-SED = Fresh Water-Sediment
SW-SED = Salt Water-Sediment
ft bgs = feet below ground surface
mg/kg = milligram per kilogram
B = The compound was found in the associated method blank as well as in the sample.
D = Sample was diluted.
E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.
J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
U = The compound was analyzed for but not detected.
NT = Not Tested
NAV = No Available Value

Table B-7
Fort Monmouth Phase II Site Investigation, Parcel 61
Summary of Analytical Parameters Detected in Soil (mg/kg)

	Analytical Results	
	Sample ID:	P61-SS1
	Lab ID:	7055205
	Date Sampled:	12/20/2007
	Depth (ft. bgs):	0.0-0.5
Chemical	ESC	Result
Semi-Volatiles		
Acenaphthene	20	2.300
Anthracene	1480	2.500
Benzo[a]anthracene	5.21	4.600
Benzo[a]pyrene	1.52	**3.700**
Benzo[b]fluoranthene	59.8	5.800
Benzo[g,h,i]perylene	119	1.100 J
Benzo[k]fluoranthene	148	2.200
Butyl benzyl phthalate	0.239	1.100 U
Chrysene	4.73	**5.000**
Dibenzofuran	NAV	1.200
Di-n-butylphthalate	200	0.082 JB
bis(2-Ethylhexyl)phthalate	0.925	0.270 J
Fluoranthene	122	13.000
Fluorene	122	1.600
Indeno[1,2,3-cd]pyrene	109	1.100 J
2-Methylnaphthalene	3.24	0.540 J
Naphthalene	0.0994	**1.200**
Phenanthrene	45.7	14.000 E
Pyrene	78.5	12.000
Metals		
Aluminum	50	**10100 B**
Arsenic	9.9	7.40
Barium	283	26.7 B
Beryllium	10	0.972
Cadmium	0.36	**0.546**
Calcium	NAV	1410 B
Chromium (Total)	0.4	**73.6 B**
Cobalt	13	2.45
Copper	28	**32.4 B**
Iron	NAV	29300 B
Lead	11	**33.3**
Magnesium	NAV	3110
Manganese	220	84.5 B
Mercury	0.00051	**0.61**
Nickel (Soluble Salts)	30	6.50
Potassium	NAV	6140 B
Vanadium	2	**52.6**
Zinc	8.5	**74.7 B**

Exceedances of Eco-SSL soil criteria are bold and shaded.
ESC = Ecological Screening Criteria (see Section 3.3)
ft. bgs = feet below ground surface
mg/kg = milligram per kilogram
B = The compound was found in the associated method blank as well as in the sample.
D = Sample was diluted.
E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.
J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
U = The compound was analyzed for but not detected.
NAV = No Available Value

Table B-8
Fort Monmouth Phase II Site Investigation, Parcel 61
Summary of Analytical Parameters Detected in Sediment (mg/kg)

			Analytical Results	
	Sample ID:		P61-SD1	P61-SD2
	Lab ID:		7055201	7055203
	Date Sampled:		12/20/2007	12/20/2007
	Depth (ft. bgs):		0.0-0.5	0.0-0.5
	ESC			
Chemical	FW-SED	SW-SED	Result	Result
Volatiles				
Toluene	2.5	2.5	0.290 U	0.340 U
Semi-Volatiles				
Acenaphthene	0.016	0.016	1.200 U	**1.600**
Anthracene	0.22	0.085	**0.160 J**	**0.290 J**
Benzo[a]anthracene	0.32	0.261	**0.490 J**	**0.740 J**
Benzo[a]pyrene	0.37	0.43	**0.430 J**	**0.650 J**
Benzo[b]fluoranthene	10.4	1.8	0.990 J	1.000 J
Benzo[k]fluoranthene	0.24	0.24	1.200 U	**0.380 J**
bis(2-Ethylhexyl)phthalate	0.182	0.18216	**0.380 J**	**0.460 J**
Chrysene	0.34	0.384	**0.710 J**	**0.920 J**
Dibenzofuran	NAV	NAV	1.200 U	1.400 U
Di-n-butylphthalate	1.114	0.058	**0.280 JB**	**0.320 JB**
Fluoranthene	0.75	0.6	**1.300**	**1.700**
Fluorene	0.19	0.019	1.200 U	**0.140 J**
4-Methylphenol	NAV	NAV	1.200 U	1.400 U
Naphthalene	0.16	0.16	1.200 U	1.400 U
Phenanthrene	0.56	0.24	**0.680 J**	**1.200 J**
Pyrene	0.49	0.665	**1.500**	**2.200**
Metals				
Aluminum	25500	18000	4390 B	10000 B
Arsenic	6	8.2	1.77	**13.3**
Barium	NAV	48	27.2 B	17.2 B
Beryllium	NAV	NAV	0.662	1.19
Cadmium	0.6	1.2	0.221	0.274
Calcium	NAV	NAV	553 B	1180 B
Chromium (Total)	26	81	**39.9 B**	**86.0 B**
Cobalt	50	10	0.903	1.98
Copper	16	34	12.0 B	13.0 B
Iron	NAV	NAV	13000 B	32300 B
Lead	31	47	**33.0**	12.4
Magnesium	NAV	NAV	1820	3910
Manganese	630	260	13.0 B	62.6 B
Mercury	0.2	0.15	0.118 U	0.130 U
Nickel (Soluble Salts)	16	21	3.59	9.41
Potassium	NAV	NAV	4050 B	6470 B
Vanadium	NAV	57	24.8	49.9
Zinc	120	150	58.4 B	63.4 B

Exceedances of freshwater sediment quality criteria are bold and shaded.
Exceedances of saltwater sediment quality criteria are bold with a bold border.
DUP = Duplicate Sample
ESC = Ecological Screening Criteria (see Section 3.3)
FW-SED = Fresh Water-Sediment
SW-SED = Salt Water-Sediment
B = The compound was found in the associated method blank as well as in the sample.
D = Sample was diluted.
E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.
J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
U = The compound was analyzed for but not detected.

ft. bgs = feet below ground surface
mg/kg = milligram per kilogram
NT = Not Tested
NAV = No Available Value

Table B-9
Fort Monmouth Phase II Site Investigation, Parcel 69
Summary of Analytical Parameters Detected in Soil (mg/kg)

		Analytical Results			
	Sample ID:	P69SB-1A	P69SB-2A	P69SB-3A	P69SB-4A
	Lab ID:	7048003	7048006	7048009	7048012
	Date Sampled:	11/20/2007	11/20/2007	11/20/2007	11/20/2007
	Depth (ft. bgs):	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0
Chemical	ESC	Result	Result	Result	Result
Volatiles					
Acetone	NAV	NT	NT	NT	NT
Methylene Chloride	4.05	NT	NT	NT	NT
Semi-Volatiles					
Diethyl phthalate	100	1.000 U	1.100 U	1.000 U	1.100 U
Di-n-butylphthalate	200	1.100 B	1.000 JB	0.420 JB	0.730 JB
Fluoranthene	122	1.000 U	1.100 U	0.094 J	1.100 U
Phenanthrene	45.7	1.000 U	1.100 U	0.080 J	1.100 U
Pyrene	78.5	1.000 U	1.100 U	0.170 J	1.100 U
Metals					
Aluminum	50	**6760 B**	**7890 B**	**7880 B**	**9190 B**
Arsenic	9.9	2.09	2.49	2.14	4.09
Barium	283	23.0 B	21.5 B	28.0 B	30.6 B
Beryllium	10	0.768	0.827	0.885	0.796
Calcium	NAV	1230	1070	1420	1300
Chromium (Total)	0.4	**46.9**	**56.5**	**60.0**	**46.8**
Cobalt	13	0.497	0.919	0.947	0.837
Copper	28	6.49 B	15.4 B	11.6 B	**46.8 B**
Iron	NAV	18600	24700	25100	18100
Lead	11	8.98 B	9.68 B	**21.8 B**	**23.0 B**
Magnesium	NAV	2200	2960	2960	2490
Manganese	220	36.7	43.8	46.2	69.5
Mercury	0.00051	0.107 U	0.095 U	0.103 U	**0.51**
Nickel (Soluble Salts)	30	4.50	4.96	5.16	5.52
Potassium	NAV	3320	4780	5400	3300
Vanadium	2	**31.3**	**37.1**	**37.8**	**32.0**
Zinc	8.5	**45.3 B**	**42.5 B**	**74.9 B**	**55.9 B**

Exceedances of Eco-SSL soil criteria are bold and shaded.

ESC = Ecological Screening Criteria (see Section 3.3)

ft. bgs = feet below ground surface

mg/kg = milligram per kilogram

B = The compound was found in the associated method blank as well as in the sample.

D = Sample was diluted.

E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.

J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zer

U = The compound was analyzed for but not detected.

NT = Not Tested

NAV = No Available Value

Table B-10
Fort Monmouth Phase II Site Investigation, Parcel 69
Summary of Analytical Parameters Detected in Groundwater (µg/L)

			Analytical Results		
		Sample ID:	P69GW-1	P69GW-1 DUP	P69GW-4
		Lab ID:	7048104	7048103	7048105
		Date Sampled:	11/21/2007	11/21/2007	11/21/2007
		Screened Interval (ft. bgs):	7-12'	7-12'	10-15'
	ESC				
Chemical	FW-SW	SW-SW	Result	Result	Result
Volatiles					
Acetone	NAV	NAV	0.85 U	0.85 U	1.09 B
Tetrachloroethylene	45	NAV	0.97	1.02	0.34 U
Toluene	253	NAV	0.27 U	0.27 U	0.14 J
Semi-Volatiles					
bis(2-Ethylhexyl)phthalate	0.3	NAV	8.54	3.08	1.28 U

Exceedances of freshwater surface water quality criteria are bold and shaded.

Exceedances of saltwater surface water quality criteria are bold with a bold border.

DUP = Duplicate Sample

ESC = Ecological Screening Criteria (see Section 3.3)

FW-SW = Fresh Water-Surface Water

SW-SW = Salt Water-Surface Water

ft bgs = feet below ground surface

µg/L = microgram per liter

B = The compound was found in the associated method blank as well as in the sample.

D = Sample was diluted.

E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.

J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

U = The compound was analyzed for but not detected.

NT = Not Tested

NAV = No Available Value

Table B-11
Fort Monmouth Phase II Site Investigation, Parcel 69
Summary of Analytical Parameters Detected in Sediment (mg/kg)

			Analytical Results			
		Sample ID:	P69SD-1A	P69SD-1A	P69SD-2A	P69SD-2A
		Lab ID:	7048017	7053911	7048019	7053913
		Date Sampled:	11/20/2007	12/17/2007	11/20/2007	12/17/2007
		Depth (ft. bgs):	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
	ESC					
Chemical	FW-SED	SW-SED	Result	Result	Result	Result
Volatiles						
Acetone	NAV	NAV	NT	4.000 B	NT	5.300 B
Carbon disulfide	NAV	NAV	NT	0.130 J	NT	0.069 J
Methylene Chloride	0.159	NAV	NT	**0.160 JB**	NT	**0.190 JB**
Toluene	2.5	2.5	NT	0.440 U	NT	0.510 U
Semi-Volatiles						
Acenaphthene	0.016	0.016	**0.500 J**	NT	**1.200 J**	NT
Anthracene	0.22	0.085	2.800 U	NT	6.500 U	NT
Benzo[a]anthracene	0.32	0.261	2.800 U	NT	6.500 U	NT
Chrysene	0.34	0.384	2.800 U	NT	6.500 U	NT
Di-n-butylphthalate	1.114	0.058	**4.800 B**	NT	**1.200 JB**	NT
Fluoranthene	.75	0.6	**0.790 J**	NT	**2.800 J**	NT
Phenanthrene	0.56	0.24	0.250 J	NT	6.500 U	NT
Pyrene	0.49	0.665	**1.100 J**	NT	**3.100 J**	NT
Metals						
Aluminum	25500	18000	7790 B	NT	**41300 B**	NT
Arsenic	6	8.2	2.59	NT	**36.2**	NT
Barium	NAV	48	14.8 B	NT	89.6 B	NT
Beryllium	NAV	NAV	0.876	NT	3.90	NT
Cadmium	0.6	1.2	0.063 U		**14.1**	NT
Calcium	NAV	NAV	1460	NT	3850	NT
Chromium (Total)	26	81	**74.5**	NT	**345**	NT
Cobalt	50	10	2.05	NT	**20.3**	NT
Copper	16	34	**30.5 B**	NT	**203 B**	NT
Iron	NAV	NAV	23700	NT	92500	NT
Lead	31	47	**35.9 B**	NT	**410 B**	NT
Magnesium	NAV	NAV	3550	NT	11300	NT
Manganese	630	260	55.4	NT	**339**	NT
Mercury	0.2	0.15	0.143 U	NT	**0.83**	NT
Nickel (Soluble Salts)	16	21	9.32	NT	**53.1**	NT
Potassium	NAV	NAV	4880	NT	13900	NT
Silver	1	1	0.252 U	NT	**9.99**	NT
Sodium	NAV	NAV	57.316 U	NT	9690	NT
Vanadium	NAV	57	45.6	NT	185	NT
Zinc	120	150	**126 B**	NT	**515 B**	NT

Exceedances of freshwater sediment quality criteria are bold and shaded.
Exceedances of saltwater sediment quality criteria are bold with a bold border.
ESC = Ecological Screening Criteria (see Section 3.3)
FW-SED = Fresh Water-Sediment
SW-SED = Salt Water-Sediment
B = The compound was found in the associated method blank as well as in the sample.
D = Sample was diluted.
E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.
J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
U = The compound was analyzed for but not detected.
NT = Not Tested
NAV = No Available Value

Table B-12
Fort Monmouth Phase II Site Investigation, Parcel 15
Summary of Analytical Parameters Detected in Groundwater (µg/L)

			Analytical Results						
		Sample ID:	15GW-1	15GW-2	15GW-3	15GW-3DUP	15GW-4	15GW-5	15GW-6
		Lab ID:	7043104	7043105	7043106	7043103	7043107	7043108	7043109
		Date Sampled:	10/31/2007	10/31/2007	10/31/2007	10/31/2007	10/31/2007	10/31/2007	10/31/2007
		Screened Interval (ft. bgs):	7-12'	7-12'	7-12'	7-12'	7-12'	7-12'	7-12'
	ESC								
Chemical	FW-SW	SW-SW	Result	Result	Result	Result	Result	Result	Result
Volatiles									
Toluene	253	NAV	0.65	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Semi-Volatiles									
bis(2-Ethylhexyl)phthalate	0.3	NAV	1.28 U	1.28 U	3.74	1.28 U	4.04	1.19 J	1.28 U
Metals									
Aluminum	NAV	NAV	5240 B	1050 B	161 B	272 B	769 B	1280 B	800 B
Arsenic	150	36	4.41	2.70 U	2.70 U	2.70 U	7.47	2.70 U	2.70 U
Barium	220	NAV	73.2	375	354	354	779	121	72.2
Beryllium	3.6	NAV	0.934	0.468	0.100 U	0.100 U	0.100 U	0.355	0.376
Cadmium	0.15	8.8	0.285	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Calcium	NAV	NAV	4330 B	57200 B	50000 B	49300 B	136000 B	19900 B	3880 B
Chromium (Total)	20	50	**61.5**	5.38	0.516	1.81	3.31	8.19	6.81
Cobalt	24	NAV	13.2	0.200 U	0.200 U	0.200 U	0.387	0.707	0.457
Copper	7.0	3.1	**4.1**	0.500 U	0.500 U	0.500 U	**5.90**	**9.25**	**5.18**
Iron	NAV	NAV	16800	14100	66200	64900	78800	9410	6840
Lead	5.4	24	1.74	2.66	0.700 U	0.700 U	1.07	3.46	6.41
Magnesium	NAV	NAV	11300	8070	6910	6790	20200	3260	512
Manganese	NAV	NAV	208	213	277	276	1380	141	245
Nickel (Soluble Salts)	36	22	19.4	0.976	0.300 U	0.300 U	1.10	3.94	1.28
Potassium	NAV	NAV	6780 B	9110 B	10100 B	10000 B	14700 B	2500 B	584 B
Selenium	5	71	3.62 B	2.70 U	2.70 U	2.70 U	2.70 U	2.70 U	6.98 B
Sodium	NAV	NAV	49700	18300	50900	49200	40200	5380	1160
Vanadium	12	NAV	32.6	15.4	1.14	2.45	4.92	7.07	11.6
Zinc	94	81	63.4	13.5	15.2	18.3	40.2	14.3	16.4

Exceedances of freshwater surface water quality criteria are bold and shaded.

Exceedances of saltwater surface water quality criteria are bold with a bold border.

DUP = Duplicate Sample

ESC = Ecological Screening Criteria (see Section 3.3)

FW-SW = Fresh Water-Surface Water

SW-SW = Salt Water-Surface Water

ft. bgs = feet below ground surface

µg/L = microgram per liter

B = The compound was found in the associated method blank as well as in the sample.

D = Sample was diluted.

E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.

J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

U = The compound was analyzed for but not detected.

NT = Not Tested

NAV = No Available Value

Table B-13
Fort Monmouth Phase II Site Investigation, Parcel 15
Summary of Analytical Parameters Detected in Sediment (mg/kg)

			Analytical Results		
	Sample ID:		15SD-1	15SD-2	15SD-3
	Lab ID:		7042622	7042624	7042626
	Date Sampled:		10/29/2007	10/29/2007	10/29/2007
	Depth (ft. bgs):		0.0-0.5	0.0-0.5	0.0-0.5
	ESC				
Chemical	FW-SED	SW-SED	Result	Result	Result
Semi-Volatiles					
2-Methylphenol	NAV	NAV	1.200 U	1.200 U	0.460 J
Acenaphthene	0.016	0.016	1.200 U	1.200 U	1.200 U
Anthracene	0.22	0.085	1.200 U	1.200 U	0.052 J
Benzo[a]anthracene	0.32	0.261	1.200 U	1.200 U	0.200 J
Benzoic acid	NAV	NAV	1.200 U	1.200 U	0.790 J
bis(2-Ethylhexyl)phthalate	0.182	0.18216	1.200 U	1.200 U	**1.300**
Chrysene	0.34	0.384	1.200 U	1.200 U	0.320 J
Di-n-butylphthalate	1.114	0.058	**0.810 JB**	**0.280 JB**	**0.680 JB**
Fluoranthene	0.75	0.6	1.200 U	0.170 J	0.280 J
Fluorene	0.19	0.019	1.200 U	1.200 U	1.200 U
Phenanthrene	0.56	0.24	0.061 J	0.170 J	0.220 J
Pyrene	0.49	0.665	1.200 U	0.340 J	0.470 J
Metals					
Aluminum	25500	18000	2540 B	3280 B	4140 B
Arsenic	6	8.2	1.65	2.29	3.03
Barium	NAV	48	13.7 B	18.3 B	21.2 B
Beryllium	NAV	NAV	0.252	0.361	0.472
Cadmium	0.6	1.2	0.047 U	0.228	0.243
Calcium	NAV	NAV	622 B	750 B	1010 B
Chromium (Total)	26	81	**29.4**	**31.1**	**37.0**
Cobalt	50	10	0.733	1.60	2.67
Copper	16	34	8.23 B	10.7 B	13.0 B
Iron	NAV	NAV	7850	9210	11400
Lead	31	47	8.94	11.8	14.6
Magnesium	NAV	NAV	972	1090	1650
Manganese	630	260	30.7 B	20.4 B	16.9 B
Nickel (Soluble Salts)	16	21	3.50	4.73	7.47
Potassium	NAV	NAV	1870 B	2260 B	3180 B
Sodium	NAV	NAV	137 B	150 B	45.633 U
Vanadium	NAV	57	14.1	16.8	21.4
Zinc	120	150	49.9	56.6	86.0

Exceedances of freshwater sediment quality criteria are bold and shaded.
Exceedances of saltwater sediment quality criteria are bold with a bold border.
DUP = Duplicate Sample
ESC = Ecological Screening Criteria (see Section 3.3)
FW-SED = Fresh Water-Sediment
SW-SED = Surface Water-Sediment
ft. bgs = feet below ground surface
mg/kg = milligram per kilogram
B = The compound was found in the associated method blank as well as in the sample.
D = Sample was diluted.
E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.
J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
U = The compound was analyzed for but not detected.
NT = Not Tested
NAV = No Available Value

Table B-14
Fort Monmouth Phase II Site Investigation, Parcel 27
Summary of Analytical Parameters Detected in Soil (mg/kg)

		Analytical Results		
	Sample ID:	P27-SS1	P27-SS2	P27-SS2 DUP
	Lab ID:	8000707	8000708	8000702
	Date Sampled:	01/08/2008	01/08/2008	01/08/2008
	Depth (ft. bgs):	0.0-0.5	0.0-0.5	0.0-0.5
Chemical	ESC	Result	Result	Result
Semi-Volatiles				
Benzo[a]anthracene	5.21	0.150 J	0.440 J	0.510 J
Benzo[b]fluoranthene	59.8	1.200 U	0.750 J	0.830 J
bis(2-Ethylhexyl)phthalate	0.925	0.280 J	0.760 J	**0.940 J**
Chrysene	4.73	0.220 J	0.580 J	0.700 J
Di-n-butylphthalate	200	0.400 JB	0.890 JB	1.100 JB
Fluoranthene	122	0.210 J	0.600 J	0.810 J
Phenanthrene	45.7	0.100 J	0.360 J	0.410 J
Pyrene	78.5	0.430 J	1.300 J	1.500
Metals				
Aluminum	50	**11600 B**	**22900 B**	**18700 B**
Arsenic	9.9	9.86	**16.7**	**14.9**
Barium	283	29.5 B	74.4 B	60.2 B
Beryllium	10	0.498	1.41	1.19
Cadmium	0.36	**0.720**	**5.62**	**4.51**
Calcium	NAV	1550 B	6320 B	5610 B
Chromium (Total)	0.4	**60.8 B**	**142 B**	**121 B**
Cobalt	13	1.49	5.49	5.33
Copper	28	17.0 B	**59.6 B**	**54.0 B**
Iron	NAV	20200	46800	40300
Lead	11	**44.6**	**87.0**	**87.6**
Magnesium	NAV	1790 B	6040 B	5230 B
Manganese	220	64.3 B	**342 B**	**287 B**
Mercury	0.00051	0.122 U	**0.18**	**0.17**
Nickel (Soluble Salts)	30	8.59	25.3	20.2
Potassium	NAV	2570 B	7760 B	6430 B
Vanadium	2	**67.2**	**123**	**106**
Zinc	8.5	**81.4 B**	**324 B**	**274 B**

Exceedances of Eco-SSL soil criteria are bold and shaded.
DUP = Duplicate Sample
ESC = Ecological Screening Criteria (see Section 3.3)
ft. bgs = feet below ground surface
mg/kg = milligram per kilogram
B = The compound was found in the associated method blank as well as in the sample.
D = Sample was diluted.
E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.
J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
U = The compound was analyzed for but not detected.
NT = Not Tested
NAV = No Available Value

Table B-15
Fort Monmouth Phase II Site Investigation, Parcel 27
Summary of Analytical Parameters Detected in Sediment (mg/kg)

			Analytical Results	
	Sample ID:		P27-SD1	P27-SD2
	Lab ID:		8000703	8000705
	Date Sampled:		01/08/2008	01/08/2008
	Depth (ft. bgs):		0.0-0.5	0.0-0.5
	ESC			
Chemical	FW-SED	SW-SED	Result	Result
Semi-Volatiles				
Benzo[a]anthracene	0.32	0.261	1.700 U	0.120 J
Benzoic acid	NAV	NAV	1.700 U	1.500 U
bis(2-Ethylhexyl)phthalate	0.182	0.18216	1.700 U	0.170 J
Chrysene	0.34	0.384	1.700 U	0.150 J
Di-n-butylphthalate	1.114	0.058	**0.460 JB**	**0.610 JB**
Fluoranthene	0.75	0.6	0.130 J	0.250 J
Phenanthrene	0.56	0.24	1.700 U	0.082 J
Pyrene	0.49	0.665	0.200 J	0.280 J
Metals				
Aluminum	25500	18000	7310 B	5560 B
Antimony	3	9.3	0.636 U	0.620 U
Arsenic	6	8.2	**6.11**	3.28
Barium	NAV	48	34.4 B	26.7 B
Beryllium	NAV	NAV	0.817	0.768
Cadmium	0.6	1.2	**1.76**	**0.715**
Calcium	NAV	NAV	1210 B	793 B
Chromium (Total)	26	81	**49.8 B**	**49.6 B**
Cobalt	50	10	3.51	2.37
Copper	16	34	**187 B**	15.1 B
Iron	NAV	NAV	12800	12000
Lead	31	47	**84.9**	21.9
Magnesium	NAV	NAV	1530 B	1550 B
Manganese	630	260	56.6 B	18.1 B
Mercury	0.2	0.15	0.149 U	0.146 U
Nickel (Soluble Salts)	16	21	12.8	10.3
Potassium	NAV	NAV	2590 B	3040 B
Selenium	NAV	1	0.940 U	0.915 U
Vanadium	NAV	57	44.4	29.3
Zinc	120	150	**264 B**	79.8 B

Exceedances of freshwater sediment quality criteria are bold and shaded.
Exceedances of saltwater sediment quality criteria are bold with a bold border.
DUP = Duplicate Sample
ESC = Ecological Screening Criteria (see Section 3.3)
FW-SED = Fresh Water-Sediment
SW-SED = Salt Water-Sediment
ft. bgs = feet below ground surface
mg/kg = milligram per kilogram
B = The compound was found in the associated method blank as well as in the sample.
D = Sample was diluted.
E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.
J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
U = The compound was analyzed for but not detected.
NT = Not Tested
NAV = No Available Value

Table B-16
Fort Monmouth Phase II Site Investigation, Parcel 28
Summary of Analytical Parameters in Soil (mg/kg), South of Corregidor Road

		Analytical Results	
	Sample ID:	P28-SB1-A	P28-SB2-A
	Lab ID:	7051111	7051114
	Date Sampled:	12/5/2007	12/5/2007
	Depth (ft. bgs):	0.0-0.5'	0.0-0.5'
Chemical	ESC	Result	Result
Semi-Volatiles			
Benzo[b]fluoranthene	59.8	1.100 U	1.000 U
Benzo[a]anthracene	5.21	1.100 U	1.000 U
Benzo[a]pyrene	1.52	1.100 U	1.000 U
Benzo[k]fluoranthene	148	1.100 U	1.000 U
bis(2-Ethylhexyl)phthalate	0.925	0.160 J	1.000 U
Chrysene	4.73	1.100 U	1.000 U
Di-n-butylphthalate	200	1.100 JB	0.200 JB
Di-n-octyl phthalate	NAV	1.100 U	1.000 U
Fluoranthene	122	0.095 J	1.000 U
Indeno[1,2,3-cd]pyrene	109	1.100 U	1.000 U
Phenanthrene	45.7	0.069 J	1.000 U
Pyrene	78.5	0.120 J	1.000 U
Metals			
Aluminum	50	**7170 B**	**2290 B**
Arsenic	9.9	7.16	1.78
Barium	283	30.1 B	8.30 B
Beryllium	10	0.794	0.154
Cadmium	0.36	0.338	0.147
Calcium	NAV	1280 B	461 B
Chromium (Total)	0.4	**58.6**	**17.4**
Cobalt	13	1.15	0.465
Copper	28	9.21 B	5.27 B
Iron	NAV	21900	5660
Lead	11	**28.0**	**27.8**
Magnesium	NAV	2690 B	524 B
Manganese	220	52.4	24.1
Nickel (Soluble Salts)	30	6.55	2.15
Potassium	NAV	5250	770
Vanadium	2	**33.7**	**16.6**
Zinc	8.5	**51.9 B**	**31.1 B**

Exceedances of Eco-SSL soil criteria are bold and shaded.

DUP = Duplicate Sample

ESC = Ecological Screening Criteria (see Section 3.3)

ft. bgs = feet below ground surface

mg/kg = milligram per kilogram

B = The compound was found in the associated method blank as well as in the sample.

D = Sample was diluted.

E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.

J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

U = The compound was analyzed for but not detected.

NT = Not Tested

NAV = No Available Value

Table B-17
Fort Monmouth Phase II Site Investigation, Parcel 28
Summary of Analytical Parameters Detected in Groundwater (µg/L)

			Analytical Results				
		Sample ID:	P28GW-1	P28GW-1 DUP	P28GW-2	P28GW-3	P28GW-4
		Lab ID:	7051404	7051403	7051405	7051406	7051407
		Date Sampled:	12/06/2007	12/06/2007	12/06/2007	12/06/2007	12/06/2007
		Screened Interval (ft. bgs):	6-11'	6-11'	2.5-7.5'	3-8'	5-10'
	ESC						
Chemical	FW-SW	SW-SW	Result	Result	Result	Result	Result
Volatiles							
Acetone	NAV	NAV	1.33	0.85 U	0.85 U	1.25	1.43
Chloroform	140	NAV	0.32 U	0.32 U	0.66	0.32 U	0.32 U
Toluene	253	NAV	0.27 U	0.27 U	0.38	0.27 U	0.27 U
Semi-Volatiles							
bis(2-Ethylhexyl)phthalate	0.3	NAV	**2.07 B**	1.28 U	1.28 U	**0.94 JB**	**2.30 B**
Metals							
Aluminum	NAV	NAV	198	80.4	75.6	550	973
Barium	220	NAV	27.8	24.9	13.9	77.2	92.0
Beryllium	3.6	NAV	0.100 U	0.100 U	0.100 U	0.507	0.533
Cadmium	0.15	8.8	0.200 U	0.200 U	**0.314 B**	**0.388 B**	**0.533 B**
Calcium	NAV	NAV	5540	5200	5910	7160	30400
Chromium (Total)	20	50	0.200 U	0.200 U	0.200 U	2.34	0.200 U
Cobalt	24	NAV	0.200 U	0.200 U	0.200 U	6.21	5.99
Magnesium	NAV	NAV	3220	3000	2060	8210	7380
Manganese	NAV	NAV	56.9	53.3	8.36	50.0	248
Nickel (Soluble Salts)	37	22	0.300 U	0.300 U	0.300 U	21.0	5.03
Potassium	NAV	NAV	3270	2980	507	2000	3520
Sodium	NAV	NAV	4670 B	4250 B	48800 B	4850 B	14700 B
Zinc	96	81	3.58 U	3.58 U	3.58 U	65.0	35.8
Anions							
Nitrate	NAV	NAV	2040	2220	550	NT	NT
Nitrite	NAV	NAV	200 U	200 U	250	NT	NT

Exceedances of freshwater surface water quality criteria are bold and shaded.

Exceedances of saltwater surface water quality criteria are bold with a bold border.

DUP = Duplicate Sample

ESC = Ecological Screening Criteria (see Section 3.3)

FW-SW = Fresh Water-Surface Water

SW-SW = Salt Water-Surface Water

ft. bgs = feet below ground surface

µg/L = microgram per liter

B = The compound was found in the associated method blank as well as in the sample.

D = Sample was diluted.

E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.

J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

U = The compound was analyzed for but not detected.

NT = Not Tested

NAV = No Available Value

Table B-18
Fort Monmouth Phase II Site Investigation, Parcel 28
Summary of Analytical Parameters Detected in Sediment (mg/kg)

			Analytical Results	
	Sample ID:		P28SD-1	P28SD-2
	Lab ID:		7050607	7050609
	Date Sampled:		12/4/2007	12/4/2007
	Depth (ft. bgs):		0.0-0.5	0.0-0.5
	ESC			
Chemical	FW-SED	SW-SED	Result	Result
Volatiles				
Acetone	NAV	NAV	0.440	0.390
Semi-Volatiles				
Benzo[a]anthracene	0.32	0.261	1.200 U	0.180 J
Chrysene	0.34	0.384	1.200 U	0.270 J
Di-n-butylphthalate	1.114	0.058	**0.190 JB**	**0.150 JB**
Fluoranthene	0.75	0.6	1.200 U	0.160 J
Pyrene	0.49	0.665	1.200 U	0.370 J
Metals				
Aluminum	25500	18000	4710 B	4340 B
Arsenic	6	8.2	2.32	2.75
Barium	NAV	48	28.7 B	31.6 B
Beryllium	NAV	NAV	0.454	0.399
Cadmium	0.6	1.2	0.222	0.449
Calcium	NAV	NAV	964 B	1080 B
Chromium (Total)	26	81	**43.0**	**36.8**
Cobalt	50	10	0.596	1.09
Copper	16	34	5.92 B	11.5 B
Iron	NAV	NAV	13200	10600
Lead	31	47	7.69	28.0
Magnesium	NAV	NAV	1530 B	1390 B
Manganese	630	260	24.2	31.0
Nickel (Soluble Salts)	16	21	5.42	5.28
Potassium	NAV	NAV	3220	2150
Vanadium	NAV	57	23.5	22.3
Zinc	120	150	35.9 B	55.6 B

Exceedances of freshwater sediment quality criteria are bold and shaded.
Exceedances of saltwater sediment quality criteria are bold with a bold border.
DUP = Duplicate Sample
ESC = Ecological Screening Criteria (see Section 3.3)
FW-SED = Fresh Water-Sediment
SW-SED = Salt Water-Sediment
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