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# *Picatinny Arsenal Restoration Advisory Board Meeting*

*31 April 2016*

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## **Ted Gabel, Army RAB Co-Chair**

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**Mission:** *USAG Picatinny Arsenal provides effective and efficient installation capabilities and services that support the Joint Center of Excellence for Armaments and Munitions enabling continued firepower dominance by the United States Military and sustaining a community in which Service Members, Families, and Civilians will thrive.*

**Vision:** *People development that is deliberate, continuous, and progressive. This includes training, education, and experiences acquired through opportunities in the institutional, operational, and self-developmental domains.*

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**Goal:** *Picatinny Arsenal, recognized within IMCOM as the Army's Home in Northern New Jersey and a Team of professionals, provides consistent, quality services and infrastructure that are force multipliers in supported organization mission accomplishment and materially enhance Service Member, Family, and Civilian well-being and readiness.*

*The Army's Home in Northern New Jersey*



# Agenda for March 31<sup>st</sup> Restoration Advisory Board

- Attendance, Introductions & Correspondence
- Old Business/Action Items/Minutes
- Finalize RAB Charter
- Historical and Archeological Update in relation to the Restoration Program: (Jason Huggan)
- Picatinny Lakes Sampling and Ecological Risk (Debra MacDonald)
- 2015 Area C and Southern Boundary Sampling Results (Frank DeSantis)
- Update in a Minute (including five-year review)
- Synopsis and Next Meeting



Update-in-a-Minute  
Installation Restoration Program (IRP)  
&  
Military Munitions Response Program (MMRP)

March 31<sup>st</sup> Presentation to the  
Picatinny Arsenal  
Restoration Advisory Board

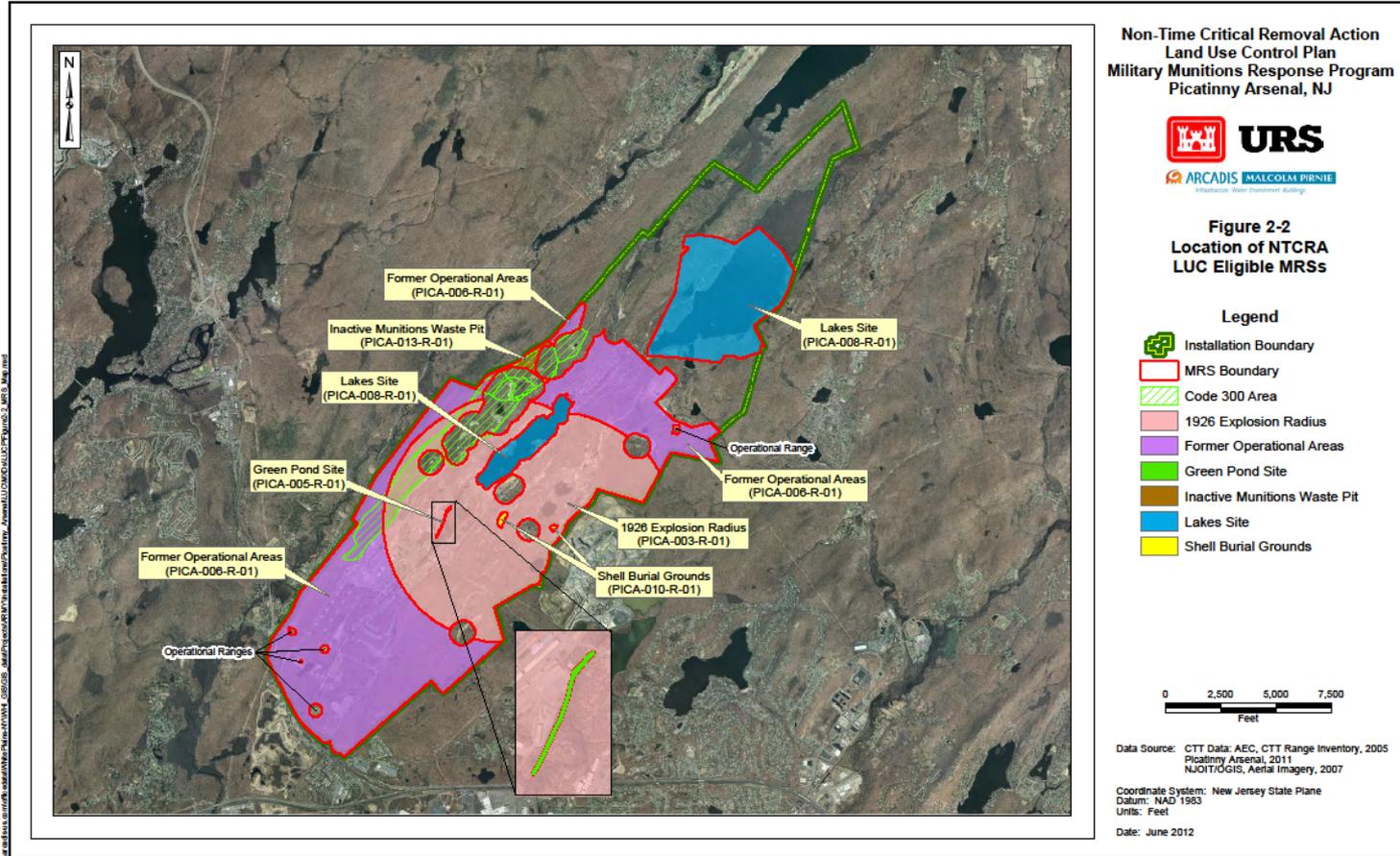


## Update on FINAL NON-TIME CRITICAL REMOVAL ACTION INTERIM LAND USE CONTROL PLAN

- **In 2010** for number of Army installations, established Land Use Controls LUCs as an interim action while the MRSs progress to a final remedy within the Framework of CERCLA: MRS not located on Army-owned land would not addressed
- Approved Engineering Evaluation/Cost Analysis public noticed **NOV-DEC 2011**
- The *Action Memorandum, Interim Land Use Controls, Picatinny Arsenal for 1926 Explosion Radius (PICA-003-R-01), Green Pond Site (PICA-005-R-01), Former Operational Areas (PICA-006-R-01), Lakes Sites (PICA-008-R-01), Shell Burial Grounds (PICA-010-R-01), and Inactive Munitions Waste Pit (PICA-013-R-01), Military Munitions Response Program (Action Memorandum or AM) signed by the installation's Garrison Commander on 3 April 2012.*
- *Land Use Control Plan approved and final in January 2013*
- **GIS documentation of Construction Support**

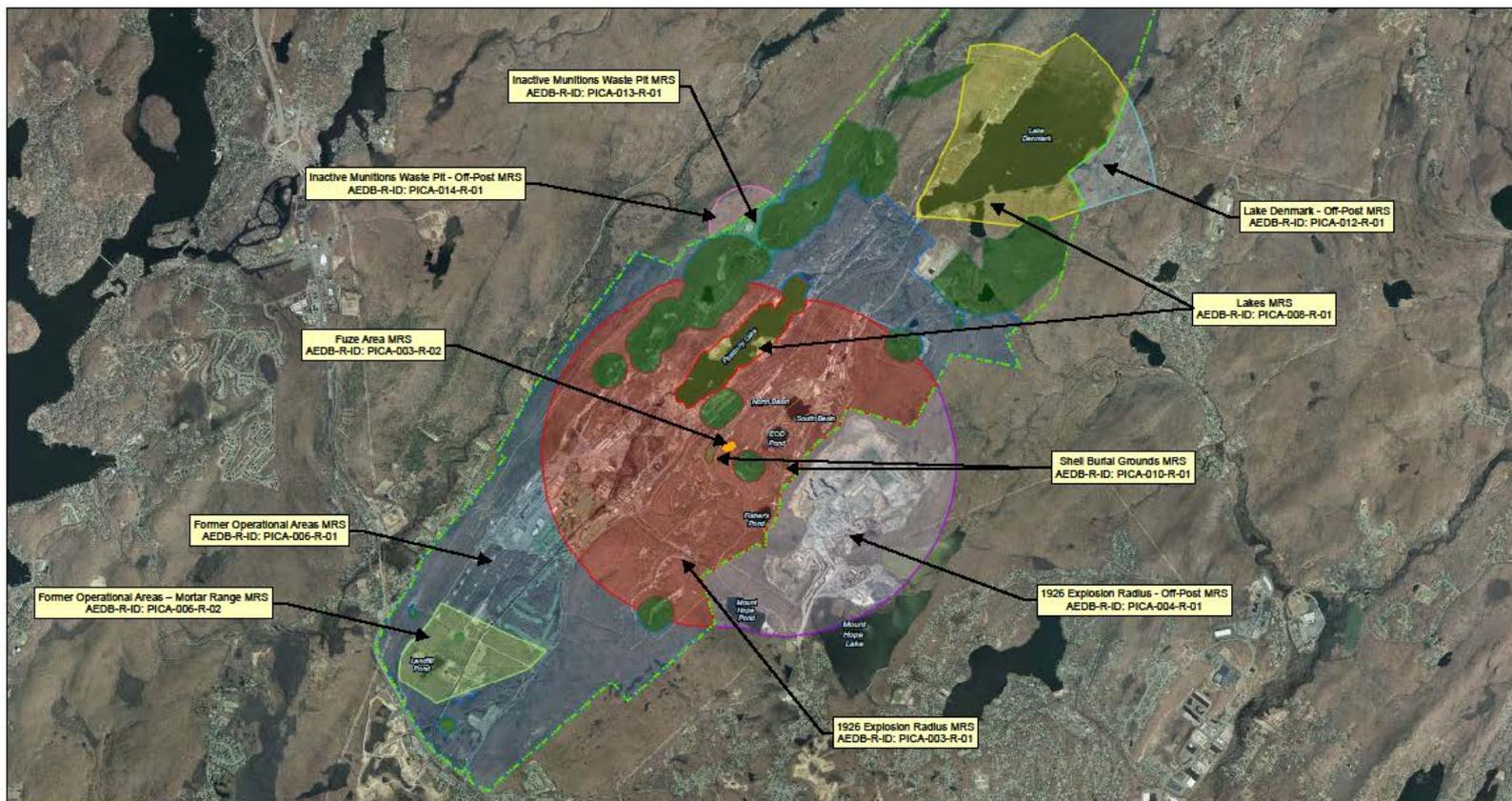


## Map of MMRP affected by NTCRA Decision Document





# 2014 Post Remedial Investigation Map of MMRP Sites



| Legend |   |
|--------|---|
|        | Installation Boundary                   |
|        | Operational Range Areas                 |
|        | Munitions Response Sites                |
|        | 1926 Explosion Radius                   |
|        | 1926 Explosion Radius - Off-Post        |
|        | Mortar Range MRS                        |
|        | Former Operational Areas                |
|        | Inactive Munitions Waste Pit            |
|        | Inactive Munitions Waste Pit - Off-Post |
|        | Lake Denmark - Off-Post                 |
|        | Lakes                                   |
|        | Shell Burial Grounds                    |
|        | Fuze Area MRS                           |

|   |  |
|---|--|
| <p><b>NOTES:</b><br/>         Base Imagery: NJ 2007 Natural Color Imagery<br/>         Data Source: Army GIS Layers (August 2011)<br/>         Coordinate System: UTM Zone 18N<br/>         Datum: WGS84. Units: Feet</p> | <p>Picatinny Arsenal<br/>         Morris County,<br/>         New Jersey</p>       |
| <p>0 3,000 6,000 Feet</p> <p>0 750 1,500 2,250 Meters</p>   | <p>Created By: CLR<br/>         Verified By: NAS<br/>         Approved By: RSS</p> |

|   |          |  |
|---|----------|--|
|   | 6/6/2014 | Contract # W612DR-09-D-0008<br>DD-0002 |
| <small>*When using this map, please refer to the MMRP map for the most current information.</small> |          |  |



## Construction Support Avoidance since LUCWP

- Chugach with subcontractor REMTECH:
  - Install 3 Gates B175, , 100 area demolition , B118 Install two utility poles, Various sign post Installations, Tilling of the wildflower area Safe Haven, Emergency cleanup B314, B902 Demolition de-ob 1 day , B175 Playground equipment installation , B525 Removal of slab and footings , B174 Installation of 2 wood poles, Mt. Hope gate underground trenching, , B3228 Dig trenches for video surveillance , Wetland delineation, Truck gate trenching, - B314 Fence installation, B3159 Removal of stumps and grading, B3801 Installation of a gas service, B175 Replacement of a defective pole, B351 Trenching for generator (mod 1) , B3100 Install concrete pad, Install (32) UXO signs, Install Gate, B3410 Installation of new storm water piping installation of poles, B3334 and old burning installation of poles near substation 2- B314 Install fencing, *METC ground loop installation, **AAL Archaeological work**, Substation 1 utility pole, Utility pole installation , B200 Fueling facility boring, Trailer install American Water near B50, B73 boring for soil samples, B507 for Installation of a Utility Pole and Ground Rods, B3321 Concrete pad installation, B472 Installation of a gas line, Various small projects, B173 Trenching for drain piping, B200 Fueling Facility improvements, B183 Install handicap walkway, Installation of utility pole/ demo steam pits, B454B, Removal of slab footings and pole installation, SREC Substation #1 poles, B462 Installation of a generator, **B3128 Loading dock footings**, B3208 Expand driveway install trench drain MOD1, B3114 Roadway clearing Substation 1 utility trenching, B904 Ground loop, trenching, B3355 Hydronic piping replacement, , Main road curbing,, B175 Parking lot renovation, B3321 Drainage repairs, B407 Footing installation, B3024 Exterior repairs, B175 Drainage repairs, B462 Gas line installation - **BAAL Survey for proposed water treatment plant Reilly Rd West Loop Relocation, Geotechnical borings, Installation of a service water line, Tree clearing water treatment plant, B462 Pole re-location, B3050 Tree clearing for parking lot, B3050 Geotechnical borings***
- Baltimore Corps:
  - Bunker construction support (complete)
  - American Water new Picatinny Water Plant requires an ESS



## Programmatic Developments

- **2016 Installation Action Plan (IAP)** is now being updated and eventually signed by the Picatinny Garrison Commander: Provides pathway for sites and justification for funding
- **Picatinny Environmental Restoration Program Web Page continues**
- **Completed 2-Year Joint Execution Plan for Defense-State Memorandum of Agreement (DSMOA): How NIDEP gets paid**



## 2016 Fifth Five Year Review

- Implemented with **Kansas City Corps of Engineers:**  
Will include all sites with Records of Decision for period 2011- 2014
- Picatinny's 5<sup>th</sup> Five Year Review: 2011, 2006, 2001, 1996:
- Working with EPA and NJDEP: Met in OCT 2015
- Targeting draft for submittal to April 2016
- Public Notice: end of September 2016



## Five Year Review's Purpose

- **Purpose: To evaluate the implementation and performance of the remedy in order to *determine if the remedy is or will be protective of human health and the environment.***
- ***CERCLA § 121(c) requires review of CERCLA remedial actions that result in any hazardous substances, pollutants, or contaminants remaining at the site no less often than every 5 years after the start of the remedial action***
- ***“If a remedial action is selected that results in hazardous substances, pollutants, or contaminants remaining at the site above levels that allow for unlimited use and unrestricted exposure, the lead agency shall review such action no less often than every five years after the initiation of the selected remedial action.”***
- ***Required by Interagency Agreement with the EPA***



## The Purpose of a 5YR is not...

...to reopen the remedy

- The preamble to the NCP states that it is EPA policy to ***not reopen*** remedy selection decisions in RODs unless a new or modified requirement calls into question the protectiveness of the selected remedy



## **Statutory Review**

- Required when BOTH are true:
  - Upon completion of remedial action, hazardous substances, pollutants, or contaminants will remain on-site, AND
  - The Decision Document or Record of Decision for the site was signed on or after 17 October 1986 (SARA effective date) and the remedial action was selected under CERCLA § 121
- Picatinny 1<sup>st</sup> in 1991 and 2<sup>nd</sup> in 1996 dealt with the Area D Interim Action Pump and Treat



## Sites with Record of Decision

| Site / Site Group Name  |
|---|
| Site 23 (PICA 065) – Post Farm Landfill                                     |
| Site 20/24 (PICA 066) – Former Pyrotechnic Testing Range/ Sanitary Landfill |
| Site 25/26 (PICA 067) – Former Sanitary Landfill/ Dredge Pile               |
| Area D (PICA 076) Groundwater   |
| Area E (PICA 077) Groundwater   |
| Site 180 (PICA 093) – Former Waste Burial Area                              |
| Green Pond Brook and Bear Swamp Brook (PICA 193)                            |
| Group of 11 Sites (PICA 020)  |
| Site 61/104 (PICA 102) – Former Waste Dumps and Chemical Laboratories       |
| Area B (PICA 205) Groundwater   |
| Site 31/101 (PICA 072) – Former DRMO Yard                                   |
| Area C (PICA 206) Groundwater   |
| Group 3 Sites (PICA 008) Groundwater and Surface Water                      |
| Group 1 Sites (PICA 079)  |
| Site 34 (PICA 002) - Former Lower Burning Grounds                           |
| Site 78 (PICA-013) Groundwater and Surface Water                            |
| Mid-Valley (PICA-204) Groundwater   |
| 25 Site Group   |
| 21 Site Group   |

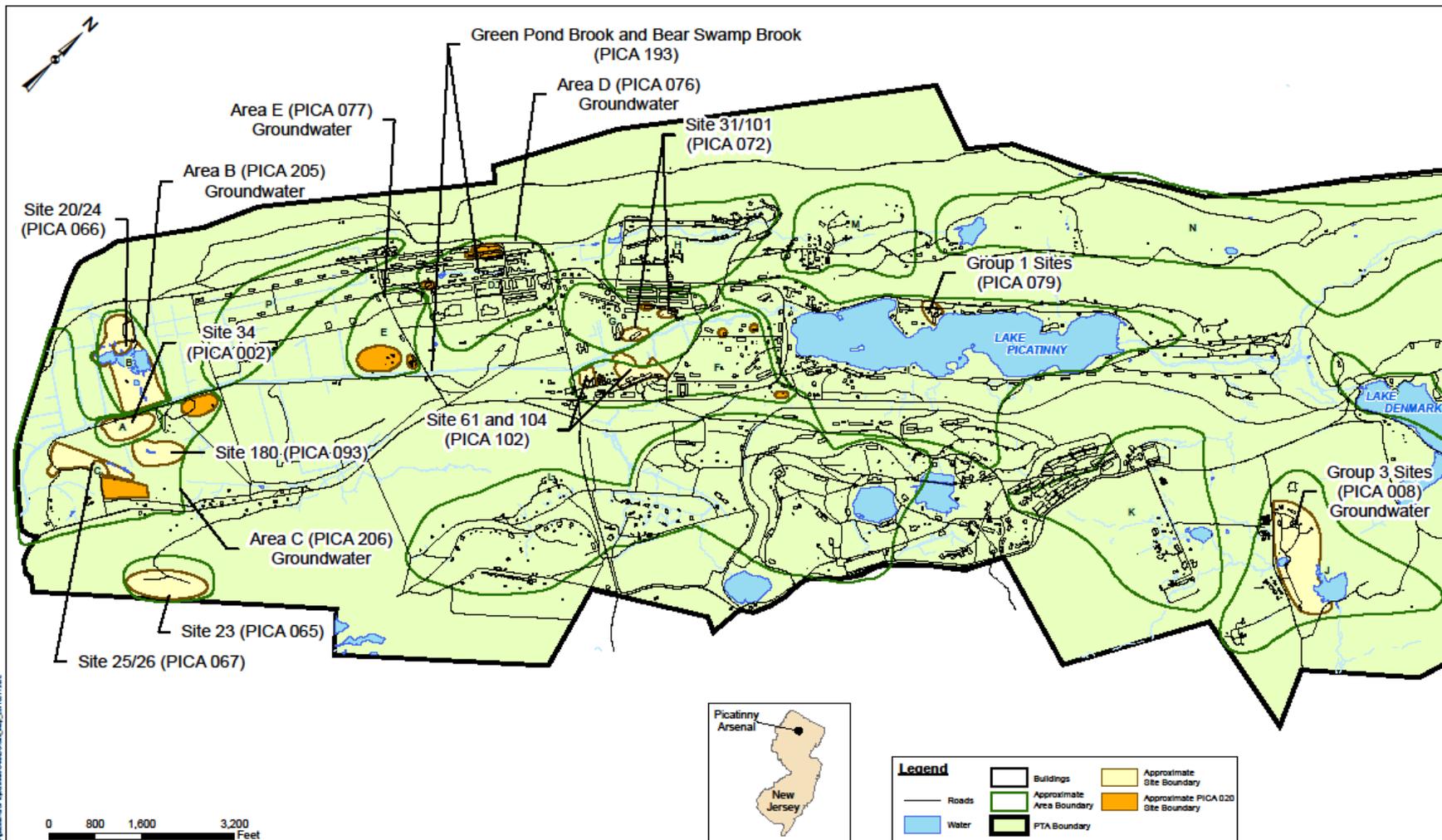


# Picatinny Arsenal Restoration Advisory Board Meeting



## Sites with signed Records of Decision

Picatinny Arsenal



| Legend |                                    |
|--------|------------------------------------|
|        | Buildings                          |
|        | Roads                              |
|        | Water                              |
|        | Approximate Site Boundary          |
|        | Approximate Area Boundary          |
|        | Approximate PICA 020 Site Boundary |
|        | PTA Boundary                       |

### REMEDIAL LOCATIONS PICATINNY ARSENAL, DOVER, NEW JERSEY



ARCADIS - Edison, NJ  
101 National Avenue, Suite 200, Edison, NJ 08817  
Phone: (732) 255-5081 Fax: (732) 255-5087



|                                 |                                 |
|---------------------------------|---------------------------------|
| PROJECT MANAGER<br>J. L. BISHOP | DEPARTMENT MANAGER<br>M. BISHOP |
| DRAWN<br>J. BISHOP              | CHECKED<br>T. BISHOP            |
| DATE<br>1-1-11                  | DATE<br>1-1-11                  |



## Five-Year Reviews Distilled

**Question A: Is the remedy functioning as intended by the decision documents?**

**Question B: Are the exposure assumptions, toxicity data and RAOs used at the time of remedy selection still valid?**

**Question C: Has any other information come to light that could call into question the protectiveness of the remedy?**

Answer these three questions

Simple...but not easy!



# Picatinny Arsenal Restoration Advisory Board Meeting




**Data Review:**  
All data from  
2015



**Community  
Involvement and  
Notification:** Public  
notice in Star Ledger,  
Voice and on  
**Restoration WEB  
Page**

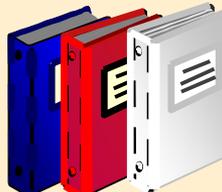


Protective?  
Not Protective?

**Assess  
Protectiveness**



**Five-Year  
Review  
Report**



**Document  
Review:** All  
2011- 2014  
Picatinny  
Annual  
Reports, all  
RODs and RDs  
and last 5YR



**Interviews:**  
Email  
interviews of  
RAB Members



**Site Visit:** A  
site visit  
12/2015



# **Update on the Solar Panel Project**

**1782 Panels producing 588 KW DC or 500KW DC**  
**Adding 110 panels for 36 KW DC**

