

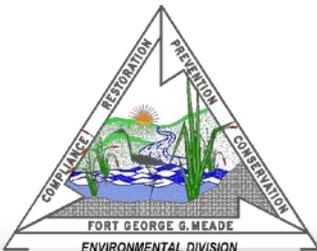


# Fort George G. Meade

Environmental Remediation Multiple Award (ERMA) for  
Remedial Action Operations (RAO) and Long Term  
Management (LTM)

ARCADIS/PIKA Joint Venture (JV)

Restoration Advisory Board Meeting  
January 21, 2016



US Army  
Corps of Engineers  
Baltimore District





# ERMA Contract for RAO/LTM



Contract #:

W91ZLK-13-D-0009-0009

Period of  
Performance:

21 Dec 2015 through  
20 Dec 2020

Contractor:





# FGGM Contract Summary



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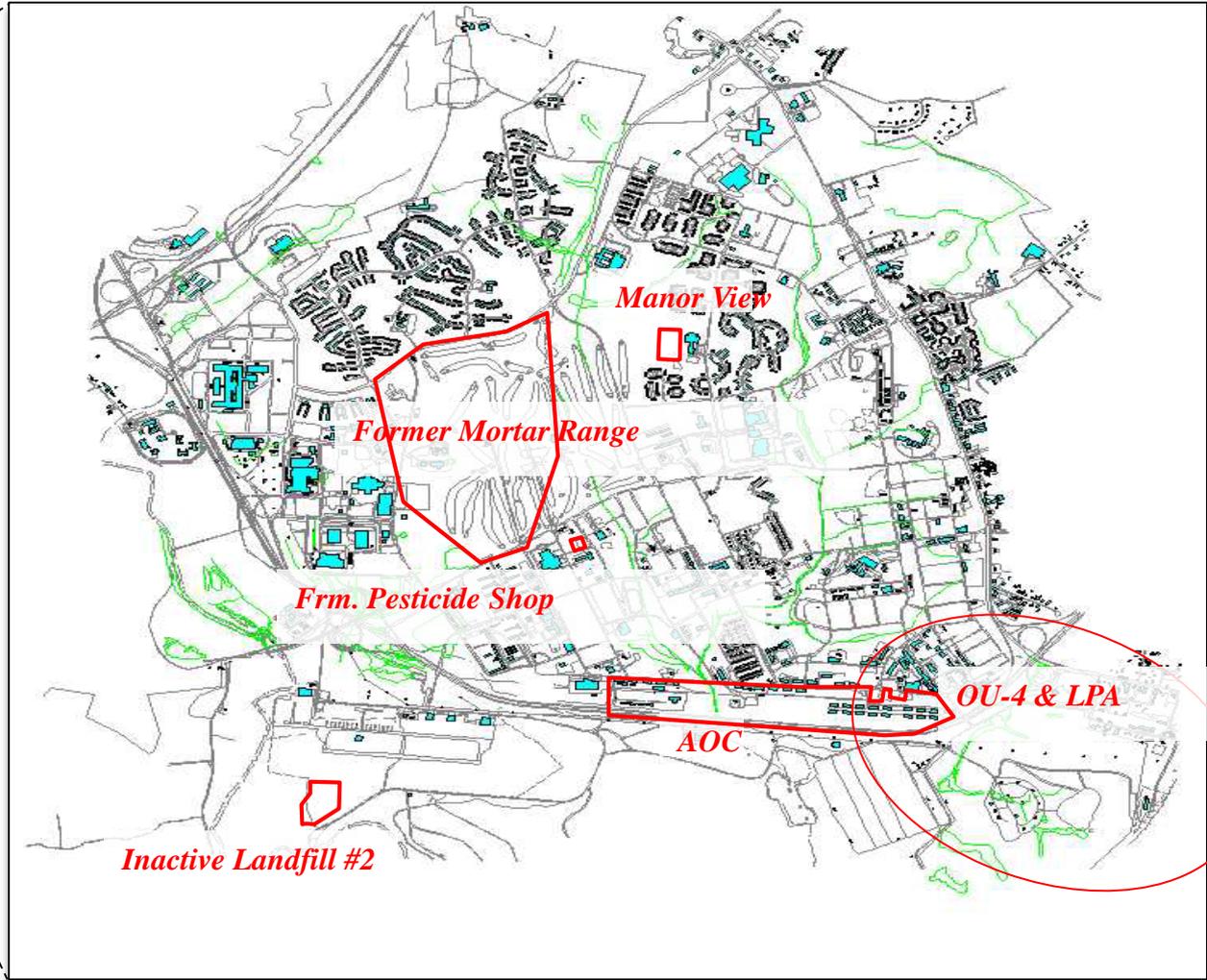
**The Arcadis/Pika JV is under contract to continue Remedial Action Operations (RAO) and Long-term Management (LTM) at the following Fort Meade sites:**

- **Operable Unit 04**
- **Architect of the Capitol**
- **Former Pesticide Shop**
- **Former Manor View Dump**
- **Mortar Range**
- **Inactive Landfill #2**



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# PBA Site Locations





# RAO/LTM Summary by Site



	System Operation	Sampling	LUC Inspections	Reporting	Other Activities
OU-4 and AOC	✓	✓	-	✓	
Pesticide Shop	-	✓	✓	✓	
Manor View Dump	-	✓	✓	✓	Mowing, Soil gas, indoor air
Mortar Range	-	-	✓	✓	UXO sweeps
Inactive Landfill #2	-	-	✓	✓	UXO sweeps, Mowing



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## Inactive Landfill #2

- ✓ 10 acre landfill located south of Tipton Airfield.
- ✓ 1996-97 Removal Action was limited to partial clearance for UXO items at the surface.
- ✓ Decision Document (1998) requires perimeter fence, warning signs, and annual inspections.



### LTM Activities

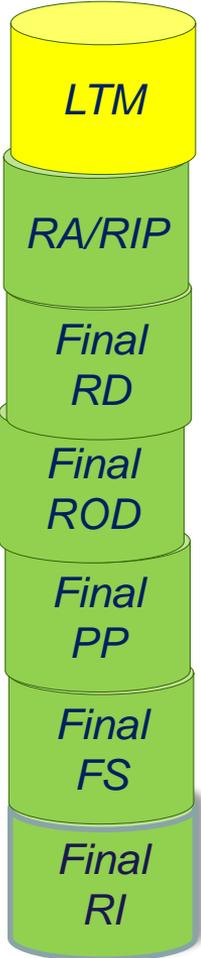
- Annual land use control inspections, visual surface sweeps for UXO, mowing and brush clearance along fence, and reporting to EPA/MDE.





# Former Pesticide Shop

## CERCLA Status



- ✓ Achieved Final ROD (2012)
- ✓ Excavated pesticide-contaminated soil and completed injections of emulsified vegetable oil to treat VOCs in groundwater (2013-2014)
- ✓ Site restored for future use.



## LTM Activities

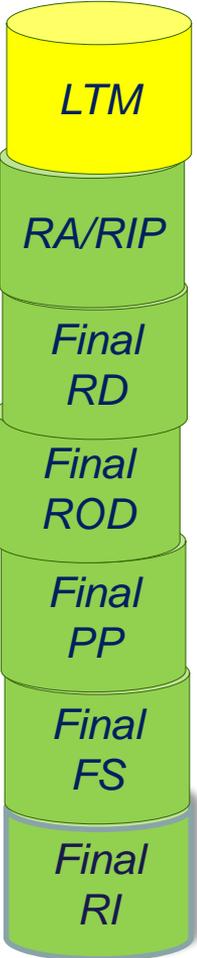
- Semi-annual sampling in 2016; then annual sampling.
- Annual LUC inspections
- Reporting to EPA and MDE.





# Former Mortar Range

## CERCLA Status



- ✓ Achieved Final ROD (2012)
- ✓ Remedy included institutional controls, including signage, educational programs to remind workers of potential hazards with MEC/MPPEH, and site inspections.
- ✓ Fact sheets, slide presentation, and guidelines developed to establish educational program.
- ✓ Signs installed across the former site to control digging and excavation.



### LTM Activities

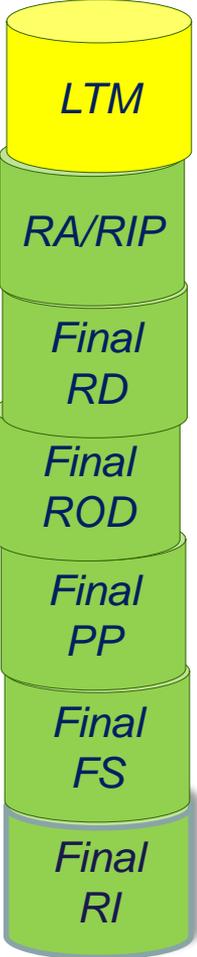
- Annual land use control inspections, visual surface sweeps for UXO, and certification reporting to EPA/MDE.





# Manor View

## CERCLA Status



- ✓ Achieved Final ROD (2014)
- ✓ Non-Time Critical Remedy implemented in 2012 to remove methane generating wastes (MGW) from an unregulated dump adjacent to on-post housing and an elementary school.
- ✓ 27,700 tons of non-hazardous MGW and soil removed.



## LTM Activities

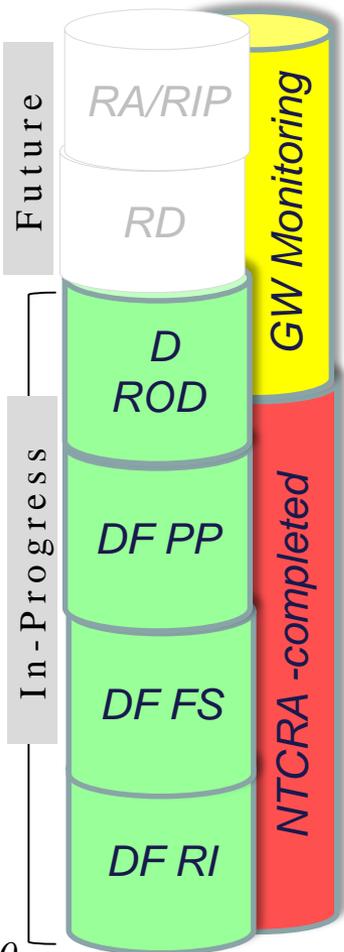
- Maintenance of existing soil cover and LUCs.
- Semi-annual groundwater monitoring and soil gas sampling (methane).
- Annual indoor air testing.
- Reporting to EPA and MDE.





# OU-4/ LPA and AOC

## OU-4 CERCLA Status



- ✓ Extensive on- and off-post Remedial Investigation work complete to address technical data gaps, including 128 new boring, monitoring wells, or injection wells.
- ✓ Non-time critical removal actions implemented in 2013-2014.
- ✓ Three in-situ chemical oxidation injections completed in Bldg. 2286/2276 source areas.
- ✓ Hydraulic containment system installed across the entire LPA:
  - ✓ **139,000,000** gallons of water extracted, treated, and reinjected (through Dec. 2015)
- ✓ Air sparge/soil vapor extraction system installed in Bldg. 2250 source area.
- ✓ At AOC, final ROD achieved in 2014; groundwater LTM rolled into on-going actions at OU-4.



## LTM Activities

- Continue O&M at two groundwater systems.
- Continue groundwater sampling and reporting to EPA and MDE.



# Questions/Comments?



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**U.S. Army Garrison Fort George G. Meade**

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