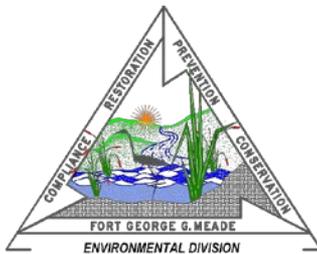




Fort George G. Meade

Site Management Plan (SMP)

Restoration Advisory Board Meeting
March 17, 2016



ARMY STRONG.



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**Final
Site Management Plan
2015 Annual Update**
Fort George G. Meade, Maryland



January 2016

Prepared for:



US Army Corps of Engineers
Baltimore District

10 South Howard Street
Baltimore, MD 21201

Prepared by:



Stell Environmental Enterprises, Inc.
25 East Main Street
Elverson, PA 19520

Contract Number: W912D
Delivery Order

The views, opinions, and/or findings contained in this report are those of the contractor and should not be construed as an official position, policy, or decision, unless so designated by the official sponsoring/monitoring activity.

FINAL
SITE MANAGEMENT PLAN
2015 ANNUAL UPDATE
FORT GEORGE G. MEADE, MD

January 2016

Prepared for:



United States Army Corps of Engineers
Baltimore District
10 South Howard Street
Baltimore, MD 21201

Contract No.: W912DR-13-D-0002
Delivery Order No.: (004)

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25 East Main Street
Elverson, PA 19520

Stell Project No. 1468





Website



http://www.ftmeade.army.mil/directorates/dpw/environment/index.html

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DPW Environmental Division
Bldg 2460 85th Med Bn Ave & Wilson St.
Fort Meade, MD 20755
301-677-9648

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**Environmental Clean-up Program
(Installation Restoration Program)**

- Miscellaneous plans and reports
- Document Repository and Administrative Record
- Superfund / Program Sites**
- Site Record
- Community Involvement: Restoration Advisory Board

Superfund / Program Sites

Overarching Program View

- Site Management Plan, 2015
- MAP: Site Map Overview (from Site Management Plan, 2015)
- MAP: Groundwater Plumes, 2013





Purpose/Objective



- Management tool for planning, reviewing, and setting priorities for all remedial response activities at FGGM (active & BRAC)
 - Includes proposed actions for both CERCLA & RCRA responses and actions
 - Outlines all response activities and associated documents
- Summarizes the status of each Area of Interest (AOI)
 - All milestones contained in Work Plans
 - Milestones proposed/updated & approved by stakeholders
- Requirements detailed in Federal Facility Agreement (FFA)
- Updated annually



Actions Covered by SMP



- Identify primary actions
- All deadlines
- All near term milestones
- All out year milestones
- All target dates
- Schedule for initiating Remedial Designs, Interim Response Actions, NTCRA & other planned response actions
- All project end dates



Contents



- Introduction
- AOI Descriptions by Source Funding
 - IRP Open sites
 - MMRP Open AOIs
 - BRAC open AOIs
 - Unassigned open AOIs
 - IRP AOIs designated for NFA
 - MMRP AOIs designated for NFA
 - BRAC AOIs designated for NFA
- Schedules
- References





Site Examples



2.1.4 FGGM13 (OU-10) – FORMER PESTICIDE SHOP BUILDING, FORMER BUILDING 6621

Regulatory Driver: CERCLA Environmental Investigations:

RI/FS 2004-2012
 RD 2012-2013
 RA(C) 2013
 5-Year Review August 2016
 RA(O) 2013-2017
 LTM 2017-2022

Contaminants of Potential Concern: VOCs, pesticides, and metals

Media of Concern: Soil and groundwater

Site Location: Grid F4, at the northwest corner of the intersection of York Avenue and Gordon Street.

Site Description: Between 1958 and 1978, former Building 6621 was used as a pesticide shop and maintenance facility. Pesticides stored at the building included malathion, diazinon, and baygon. Equipment stored at the building included lawn mowers, tractors, and other landscaping equipment. The building was demolished in 1996, and the area was graded.

Previous Studies: Site investigations were conducted after the building was demolished and the site regraded. Soil sampling results indicate that chlordane, alpha-chlordane, gamma-chlordane, 4,4-DDD, 4,4-DDE, 4,4-DDT, 2,4-D, heptachlor, dieldrin, arsenic, and mercury were detected above EPA Region 3 RBCs. Groundwater was not assessed during the site investigations.

In 2011, the Final RI determined that surface and shallow subsurface soils at the former Pesticide Shop were contaminated with pesticides (primarily chlordane) and arsenic. The pesticide contamination was more extensive than the arsenic contamination (Arcadis, 2011).

In 2010 additional RI work indicated that groundwater was contaminated with pesticides at low levels (primarily chlordane). Groundwater pesticide concentrations decreased substantially away from the pesticide handling area.

Tetrachloroethene (PCE) was also detected in two wells and also decreases in concentration away from the pesticide handling area to non-detect. The human health risk assessment (HHRA)



FORM 11 - Pesticide Shop Building

prepared as part of the RI concluded:

- The cancer risk estimates are above the upper end of the target cancer risk range (1×10^{-4}) and the cumulative non-cancer hazard estimates are above one for the future hypothetical resident.
- The cumulative non-cancer hazard estimates are greater than one for the future construction worker.

Current Use: Fenced site used for equipment storage

Current Status: The ROD was signed in September 2012 to implement soil excavation with off-site disposal, enhanced reductive dechlorination (ERD) with LTM of groundwater, and land-use controls.

Implementation of the ROD began with excavation in December 2013. Excavation was completed in February 2014, and ERD was conducted in March 2014. LUCs were implemented in 2014. LTM was conducted quarterly for a year following excavation and is now conducted semi-annually.

Cleanup/Exit Strategy: The ROD remedy was implemented between December 2013 and June 2014. LTM follows the schedule established in the RD.

2.1.9 OU-4



Regulatory Driver: CERCLA Environmental Investigations:

Please see the individual OU-4 AOIs for lists of previous investigations.

Contaminants of Potential Concern: VOCs, SVOCs, PCBs, pesticides, herbicides, TPH-diesel-range organics (DRO), TPH-gasoline range organics (GRO), polycyclic aromatic hydrocarbons (PAHs), fuel oil, metals, and herbicides

Media of Concern: Soil, groundwater, surface water, and soil gas.

Site Location: Grids G4, H4, G5, H5, H6, and I6, in the southeast portion of the installation.

Site Description: OU-4 comprises the following sites:

- FGGM 33: Battery Shop Building (Building 2283)
- FGGM 45: Calibration Laboratory (Building 2220)
- FGGM 47: Post Laundry Building (Building 2250)
- FGGM 49: DOL Buildings 2286 and 2246
- FGGM 51: Spill Site (Building 2217)

- FGGM 86: Former MP Maintenance Facility (Building 2286)
- FGGM 88: Former Tank Maintenance Facility Shop 1 (Building 2207)
- FGGM 89: Former Tank Maintenance Facility Shop 2 (Former Building 2217)
- FGGM 90: Former Tank Cleaning Warehouse (Building 2240)
- FGGM 91: Former Missile Repair Shop (Building 2220)
- FGGM 92: Former Heavy Gun Cleaning and Repair Shop (Buildings 2244, 2245, 2246, 2246D, and 2253)
- Monitoring Wells (MWs) 125d and 126d FGGM 17: Building 2213
- FGGM 96: Painting and Sheet Metal Shop, Former Building 2213
- FGGM 96: Building 2266
- FGGM 96: Furniture Repair Shop (Former Building 2276) (SWMUs 63 and 64)
- FGGM 96: Building 2287 (SWMU 68)
- FGGM 96: Paint Storage Shed (Building 2288) (SWMU 69)
- WR-5
- Debris and Stain – 1975

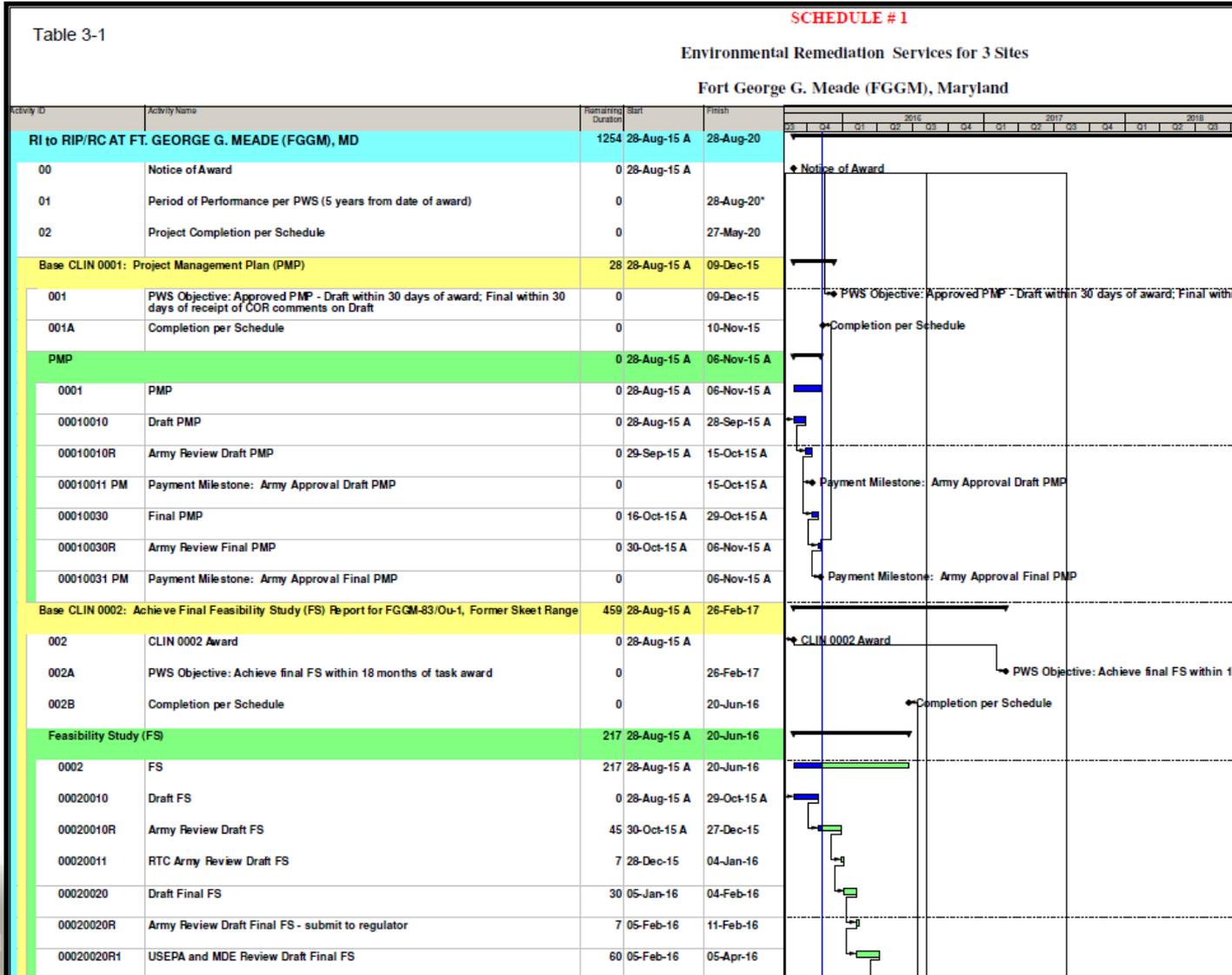




Schedule Excerpt



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SMP Map



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Legend

- Monitoring Wells
- Installation Boundary
- Installation Restoration Program Open/Closed Sites- Patuxent Research Refuge North Tract
- Installation Restoration Program - Open Site
- Base Realignment and Closure - Open Site
- Installation Restoration Program/Military Munitions Response Program - No Further Action (Closed)
- Base Realignment and Closure - No Further Action (Closed)
- Military Munitions Response Program

Legend

- Monitoring Wells
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- Base Realignment and Closure - No Further Action (Closed)
- Military Munitions Response Program
- Building/Structure
- Former Building/Structure
- Railroad
- Surface Waterbody
- Road
- Vacant Parking
- Inactive Railroad



**Site Management Plan
All Locations
Fort George G. Meade, Maryland**

Scale of Map is 1:12,000, 0000 2010
 Revision of Inventory is Full Inventory 090, 2010
 ©2010. Base 200. Dates of update features provided for Inventory of Fort Meade.

1:12,000

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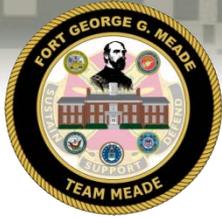




Schedule



- Per FFA
 - Draft due no later than 15 June
 - Comments due 30 days after receipt
 - Draft Final due 30 days after end of comment period
 - If needed, meeting within 15 days to discuss comments
 - DF becomes Final 21 days after Congress authorizes & appropriates funds



Points of Contact



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