



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
US ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON
4551 LLEWELLYN AVENUE
FORT GEORGE G. MEADE, MARYLAND 20755-5000

16 October 2012

Mr. John Burchette
NPL/BRAC/Federal Facilities Branch
U.S. Environmental Protection Agency
1650 Arch Street
Philadelphia, PA 19103-2029

Re: Final Amended 2012 Site Management Plan, Fort George G. Meade
Docket Number: CERC-03-2009-0207FF

Dear Mr. Burchette:

In accordance with Sections XI (Deadlines and Contents of Site Management Plan) and XII (Budget Development and Amendment of Site Management Plan) of the 6 October 2009 Comprehensive Environmental Response, Compensation, and Liability Act § 120 Federal Facility Agreement (FFA) for Fort George G. Meade, please find enclosed for your files two copies of the October 2012 *Final Amended 2012 Site Management Plan*. Milestones (due dates) of some deliverables have changed in the Final Amended SMP.

Copies of this letter have been forwarded to the following individuals Michael P. Butler-Fort George G. Meade, Environmental Division, Walter Chahanovich-Fort George G. Meade, Office of the Staff Judge Advocate, Steve Cardon-Fort Meade Legacy Base Realignment and Closure Office, Sherry Deskins-Architect of the Capitol, Fran Coulters and Susan Ryan -US Army Environmental Command, Brad Knudsen-Department of Interior, Fish and Wildlife Service, Emily Schiffmacher-Baltimore District-Corps of Engineers, Dr. Elisabeth Green-Maryland Department of the Environment, Jerry Kashatus and Sarah Gettier-URS Corp.

Should you have any questions, please feel free to contact me at (301) 677-9365 or Markus Craig at (703) 545-2474.

Sincerely,

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Installation Restoration Manager
Directorate of Public Works

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Fort Meade BRAC Program Manager
Office of the Assistant Chief of Staff for Installation
Management, Base Realignment and Closure Division

Enclosures

FINAL

**SITE MANAGEMENT PLAN
2012 ANNUAL UPDATE
FORT GEORGE G. MEADE, MD**



Prepared for
U.S. Army Corps of Engineers
Baltimore District
10 South Howard Street
Baltimore, MD 21201

October 2012

URS Group, Inc.
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Germantown, MD 20876
Project no. 15302269

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Site Management Plan, All Locations(in pocket of report)

List of Acronyms and Abbreviations

µg	.....	microgram
AAFES	.....	Army and Air Force Exchange Service
AEDB-R	.....	Army Environmental Database-Restoration
AOC	.....	area of concern
AOI	.....	area of interest
AST	.....	above-ground storage tank
AWG	.....	Asymmetric Warfare Group
BRA	.....	Baseline Risk Assessment
BRAC	.....	Base Realignment and Closure
BTAG	.....	Biological Technical Assistance Group
BTEX	.....	benzene, toluene, ethylbenzene, and xylenes
CAP	.....	Corrective Action Plan
CCl ₄	.....	carbon tetrachloride
CEMP	.....	Comprehensive Expansion Master Plan
CERCLA	.....	Comprehensive Environmental Response, Compensation, and Liability Act
CFD	.....	Clean Fill Dump
COMAR	.....	Code of Maryland Regulations
COPC	.....	chemicals of potential concern
CSA	.....	Comprehensive Site Assessment
CSF	.....	Covered Storage Facility
CSL	.....	Closed Sanitary Landfill (formerly the Active Sanitary Landfill)
DCB	.....	1,4-dichlorobenzene
DCE	.....	cis-1,2-dichloroethene
DEIS	.....	Draft Environmental Impact Statement
DISA	.....	Defense Information System Agency
DMA	.....	Defense Mapping Agency
DNT	.....	dinitrotoluene
DoD	.....	Department of Defense
DOI	.....	U.S. Department of the Interior
DOL	.....	Department of Logistics
DPDO	.....	Defense Property Disposal Office
DPW	.....	Fort Meade Directorate of Public Works
DRMO	.....	Defense Reutilization and Marketing Office
EBS	.....	Environmental Baseline Survey
ECP	.....	Environmental Condition of Property
ED	.....	Environmental Division
EE/CA	.....	Engineering Evaluation/Cost Analysis
EIS	.....	Environmental Impact Statement
EMO	.....	Environmental Management Office
EMS	.....	Environmental Management System

EPA.....U.S. Environmental Protection Agency
 ER,A.....Environmental Restoration, Army
 ERA.....ecological risk assessment
 ERIS.....Environmental Restoration Information System
 ESD.....Explanation of Significant Difference
 FFAFederal Facility Agreement
 FFS.....Focused Feasibility Study
 FGGM.....Fort George G. Meade
 Fort MeadeFort George G. Meade
 FS.....Feasibility Study
 FSPField Sampling Plan
 FTA.....Fire Training Area
 FY.....Fiscal Year
 GPR.....ground penetrating radar
 HEIHigh Explosives Impact and Disposal Area
 HHA.....Helicopter Hangar Area
 HHRAhuman health risk assessment
 HI.....hazard index
 IAL.....Inactive Landfill
 IAP.....Installation Action Plan
 ICAPInductively Coupled Argon Plasma
 INVInvestigation
 IRAInterim Removal Action
 IRPInstallation Restoration Program
 ISCInitial Site Characterization
 J&E.....Johnson & Ettinger
 kgkilogram
 Lliter
 lbpound
 LOCLibrary of Congress
 LPHliquid petroleum hydrocarbon
 LPRLittle Patuxent River
 LTGMlong-term groundwater monitoring
 LTM.....long-term monitoring
 LTMP.....long-term monitoring Plan
 LUCland use control
 LUCIP.....land use control implementation plan
 MC.....munitions constituents
 MCL.....Maximum Contaminant Level
 MCPA2-methyl-4-chlorophenoxyacetic acid
 MCPPmethylchlorophenoxypropionic acid

MDCMaximum Detected Concentration
MDEState of Maryland Department of the Environment
MDL.....Method Detection Limit
MECMunitions and Explosives of Concern
mgmilligram
MMRPMilitary Munitions Response Program
MNAmonitored natural attenuation
MP.....Motor Pool
MRAMunitions Response Area
MRSMunitions Response Site
MRSPP.....Munitions Response Site Prioritization Protocol Score
MTBEmethyl tert-butyl ether
MWmonitoring well
NFAno further action
NPLNational Priorities List
NSA.....National Security Agency
NT.....North Track
NTCRANon-time Critical Removal Action
OCP.....Oil Control Program
ODA.....Ordnance Demolition Area
OEordnance and explosive
O&MOperation and Maintenance
OU.....Operable Unit
OWS.....oil/water separator
PA.....Preliminary Assessment
PA/SIPreliminary Assessment/Site Inspection
PAH.....polycyclic aromatic hydrocarbon
PBC.....performance-based contract
PCBspolychlorinated biphenyls
PCEtetrachloroethene
PIDphotoionization detector
PLF.....Post Laundry Facility
PMRPhoenix Military Reservation
POE.....point of exposure
POL.....petroleum, oil, and lubricants
PP.....Propose Plan
ppmparts per million
PRR.....Patuxent Research Refuge
PRR-NT.....Patuxent Research Refuge-North Tract
PVC.....polyvinyl chloride
RARemedial Action

RA(C) Remedial Action (Construction)
 RA(O) Remedial Action (Operation)
 RAO..... Remedial Action Objective
 RBC..... risk-based concentration
 RC Response Complete
 RCA..... Riot Control Agent
 RCRA Resource Conservation and Recovery Act
 RD Remedial Design
 RDX..... Royal Demolition Explosive (cyclotrimethylene trinitramine)
 RFA RCRA Facility Assessment
 RI..... Remedial Investigation
 RIA Remedial Investigation Addendum
 RI/FS Remedial Investigation/Feasibility Study
 RL..... Reporting Limit
 ROD Record of Decision
 RRSE Relative Risk Site Evaluation
 RSL Regional Screening Level
 SBCR Soil Background Concentration Report
 SI..... Site Inspection
 SIA..... Site Inspection Addendum
 SLERA..... screening-level ecological risk assessment
 SMP Site Management Plan
 SWMU Solid Waste Management Unit
 SRS..... Sensitive Receptor Survey
 SVOC semivolatile organic compound
 SWP Safe Work Plan
 TAA OU Tipton Airfield Area Operable Unit
 TAL..... Target Analyte List
 TAP Tipton Airfield Parcel
 TAP OU Tipton Airfield Parcel Operable Unit
 TCE trichloroethene
 TCL..... Target Compound List
 TCLP toxicity characteristic leaching procedure
 TMP..... Transportation Motor Pool
 TNT trinitrotoluene
 TPH total petroleum hydrocarbons
 TPH-DRO total petroleum hydrocarbons – diesel range organics
 TPH-GRO total petroleum hydrocarbons – gasoline range organics
 UAO..... unilateral administrative order
 USACE U.S. Army Corps of Engineers
 USACHPPM U.S. Army Center for Health Promotion and Preventive Medicine

USAECU.S. Army Environmental Center
USAEHA.....U.S. Army Environmental Hygiene Agency
USAOC.....U.S. Architect of the Capitol
USFWSU.S. Department of the Interior, Fish and Wildlife Service
USGSU.S. Geological Survey
USTunderground storage tank
UWSUncontrolled Waste Site
UXO.....unexploded ordnance
VOC.....volatile organic compound
WRWash Rack
WWI.....World War I
WWII.....World War II

Notes:

The format of this yearly update of the Site Management Plan (SMP) is consistent with last year's update. Since the 2011 SMP update, the following 15 Areas of Interest (AOIs) have changed status to No Further Action (NFA), and have been moved from the "open AOIs" section to the "closed AOIs" section:

Building 2802 (Solid Waste Management Unit [SWMU] 93)	FGGM 21 - Medical Waste Site
Building 2804 (SWMU 94)	FGGM 72 - POL Storage Tanks
Building 2805 (SWMU 95)	FGGM 75 - USTs Prior to 1984
Building 6527 (SWMU 104) FGGM 14	Site M Parcel 1
Building 6865	Site M Parcel 2
Building 8487 (SWMU 119, 120)	Site M Parcel 3
Buried Drum Site – Taylor Avenue	Site M Parcel 7
FGGM 03 (SWMU 129 and 130) - Building 8688 Water Treatment Plant	SWMUs 143 and 144

The following AOIs were moved from the Preliminary Assessment/Site Inspection (PA/SI) to Operable Unit (OU)-4 because they are located within the geographical boundary of OU-4:

Building 2213 (FGGM 96)	Building 2276 (FGGM 96)
Building 2220 (FGGM 45)	Building 2283 (FGGM 33)
Building 2244 (FGGM 92)	Building 2287 (FGGM 96)
Building 2245 (FGGM 92)	Building 2288 (FGGM 96)
Building 2246D (FGGM 92)	Debris and Stain-1975 (FGGM 96)
Building 2266 (FGGM 96)	Wash Rack-5 (FGGM 96)

The Fort Meade Environmental Management Office (EMO) changed its name to the Environmental Division (ED). However, most of the reference documents used to compile this SMP refers to the EMO. To be consistent with the source documents, this SMP uses the same acronym that the source document used.

The Environmental Protection Agencies (EPA's) Regional Screening Levels (RSLs) are the default action levels for most sites at the installation. RSLs were historically identified as risk-based concentrations (RBCs); both acronyms are used interchangeably throughout this document. Older studies reference the RBCs, and that term is used in this SMP to be consistent with the source document.

1.0 Introduction

This document is the Fiscal Year (FY) 2012 (FY12) Site Management Plan (SMP) Annual Update for Fort George G. Meade (Fort Meade) in Anne Arundel County, Maryland. The SMP was conducted in support of the United States Army Corps of Engineers (USACE) Baltimore District. Overall coordination of the SMP and contract management was provided by the USACE-Baltimore District.

The purpose of the SMP is to summarize the current status of all environmental sites and the planned activities to be conducted at the installation and to project long-term progress at the installation, in support of the Federal Facility Agreement (FFA). The U.S. Environmental Protection Agency (EPA), U.S. Department of the Army, U.S. Department of the Interior (DOI), and U.S. Architect of the Capitol (USAOC) signed the FFA June 18 and 19, 2009. The FFA went into effect October 6, 2009. The SMP is a requirement of the FFA.

1.1 Overview of the Site Management Plan

The SMP is a management tool for planning, reviewing, and setting priorities for all remedial response activities to be conducted at the installation. This SMP includes all known sites at Fort Meade. Most of these sites have had environmental investigations and several have undergone or are undergoing response actions. Proposed environmental cleanup responses, actions, schedules, and milestones for response actions are included in this SMP.

The sites listed in the SMP were compiled from many sources. The principal sources were the Fort Meade Environmental Division, the Preliminary Assessment/Site Investigation (PA/SI) (URS Group, Inc., 2007d), and Installation Action Plans (IAPs) (Fort Meade, 2006, 2007, 2008c, 2009, 2010, 2011).

Numerous sites at Fort Meade have changed names, designations, or have acquired additional designations over time. To aid the reader in locating specific sites, a cross check table is included as Table 1-1. This table provides the following, as applicable, for each site:

- Operable Unit (OU) number
- Army Environmental Database-Restoration (AEDB-R) number [a designation beginning with FGGM (Fort George G Meade)]
- Solid Waste Management Unit (SWMU) number
- Building Number
- Site Identifier (how the site is commonly referred to, such as the Clean Fill Dump or the Pesticide Shop Building)
- Status (open or closed)

1.2 Objectives of the Site Management Plan

The objective of the SMP is to summarize the status of each environmental site in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process for all response actions at Fort Meade, including sites that fall under the Installation Restoration Program (IRP), Base Realignment and Closure (BRAC), and Military Munitions Response Program (MMRP). The SMP includes a history of the sites evaluated by the Fort Meade Environmental Partnership, a consortium consisting of the EPA, State of Maryland Department of the Environment (MDE), USACE, Fort Meade, US Army Environmental Center (USAEC), and the Military District of Washington. The Fort Meade Environmental Partnership would meet to "...collaboratively plan, document and implement environmental investigations and cleanups." Factors supporting past decisions are discussed in appropriate detail to reflect the rationale for site specific actions and recommendations.

This SMP presents the rationale for future investigations and remediation activities and the estimated schedule to complete these activities. The use of an SMP facilitates annual adjustment in scheduled activities for reasons such as Federal budget constraints, changes in scope of investigation/remediation activities, or other unanticipated events without modifying the FFA. For each site, this document includes:

1. A listing of all identified site names
2. Proposed environmental cleanup responses and actions, and schedules for response actions
3. Deadlines for the submittal of primary documents covering the current year
4. Identification of any primary actions:
 - a. Deadlines
 - b. Near term milestones
 - c. Out year milestones
 - d. Target dates
 - e. Project end dates

1.3 Site Management Plan Updates

The SMP is updated annually to reflect revised priorities as work progresses and additional information becomes available. This current document is the 2012 annual update. EPA's acceptance of the 2009, 2010, and 2011 SMP's is included in Appendix A.

1.4 Installation Description

1.4.1 Installation Location and Geomorphology

The U.S. Army Garrison Fort Meade is located in Anne Arundel County, MD, along the Little Patuxent and Patuxent Rivers, midway between Baltimore, MD, and Washington, DC (Figure FGGM 1). Figure FGGM 2 presents the jurisdictional boundary map of Fort Meade. The community of Odenton, MD, borders the eastern edge of Fort Meade. In general, the topography of Fort Meade is flat and gently slopes toward scattered water bodies throughout the installation. Local small-scale variations in elevation are abundant. Much of the installation topography has been altered by development.

1.4.2 Installation History

Fort Meade began operation in 1917 as Camp Meade, a 4,000-acre World War I (WWI) training facility. Training activities included infantry combat operations. The U.S. Army Tank School operated at the facility from 1918 to 1932. The facility was renamed Fort George G. Meade in 1928. In 1941, the facility was expanded to 13,596 acres to accommodate the additional training requirements of World War II (WWII).

In 1988, under BRAC, ranges and similar training areas were identified for closure. To date, 8,100 acres have been transferred to the DOI Patuxent Research Refuge (PRR) for use as a wildlife refuge: 7,600 acres in October 1991 and 500 acres in January 1993 as part of Defense Appropriation Bills for 1991 and 1992, respectively.

The Army retained 900 acres of the BRAC parcel, which included the 366-acre Tipton Airfield. The Army began leasing the Tipton Airfield parcel to Anne Arundel County for use as a General Aviation Facility in 1998 and officially transferred the property to Anne Arundel County on November 1, 1999.

Following the 1988 BRAC realignment, the installation covers 5,142 acres (Fort Meade, 2008c). The current installation boundaries encompass the area previously referred to as the cantonment area, which is used for administrative, recreational, and housing facilities. Fort Meade contains approximately 65.5 miles of paved roads, 3.3 miles of secondary roads, and about 1,300 buildings.

Fort Meade's mission is to provide installation operations support for facilities and infrastructure and quality of life and protective services in support of Department of Defense (DoD) activities and Federal agencies. The wide range of support is provided to 95 partner organizations from all four DoD military services and several Federal agencies. Major tenant units include the National Security Agency (NSA), the Defense Information School, Joint Field Support Center- U.S. Army Intelligence Security Command, the 70th Intelligence Wing (Air Force), the 902nd Military Intelligence Group (Army), Defense Information Systems Agency (DISA), Defense Media Agency (DMA), and EPA Research Laboratory.

1.5 National Priorities Listing

The EPA placed Fort Meade on the National Priorities List (NPL) on July 28, 1998, after an evaluation of contamination due to past storage and disposal of hazardous substances at the Defense Reutilization and Marketing Office (DRMO), Closed Sanitary Landfill (CSL), Clean Fill Dump (CFD), and Post Laundry Facility (PLF). Contaminants at these sites included solvents, pesticides, polychlorinated biphenyls (PCBs), heavy metals, waste fuels, and waste oils. Based on the Army's conclusion that all actions necessary to protect human health and the environment have been conducted for the Tipton parcel, the EPA removed the Tipton parcel from the Fort Meade NPL listing on November 1, 1999.

1.6 Information Repositories

Fort Meade environmental information can be found at Fort Meade's Environmental Management System (EMS) Web site: <http://www.ftmeade.army.mil/environment/>. The Administrative Record and the Information Repository are available at the ED office at Fort Meade. Information can also be found at the Anne Arundel County Public Library.

Table 1-1: Crosswalk of Environmental Sites at Fort Meade

Operable Unit	FGGM Number	SWMU Number	Building Number	Site Identifier	Status
OU-06	FGGM 03	SWMU 129 and 130	Building 8688	Water Treatment Plant	CLOSED
OU-02	FGGM 05	SWMU 112, 113, and 114	Building 8481	Former Troop Boiler Plant	CLOSED
OU-05	FGGM 07			DRMO Drum Site	OPEN
OU-07	FGGM 08			Comp Ammunition Supply Point No. 1	OPEN
OU-08 TAP-OU	FGGM 10			Inactive Landfill 1 – Tipton - BRAC part of the Tipton Airfield Parcel Operable unit (TAP OU)	OPEN
OU-09	FGGM 11		Building 73	Gas Training Building	OPEN
OU-10	FGGM 13		Building 6621	Former Pesticide Shop Building	OPEN
OU-11	FGGM 14	SWMU 104	Building 6527	Hazardous Waste Storage Facility/Control Hazardous Substance Storage Facility	CLOSED
OU-12	FGGM 17			Closed Sanitary Landfill	OPEN
				Monitoring wells 125D and 126D	OPEN
OU-13	FGGM 18			Ammunition Supply Point No. 2	OPEN
OU-14	FGGM 19			Advanced Wastewater Treatment Facility	OPEN
OU-15	FGGM 20			Ordnance Demo Area – BRAC	OPEN
OU-16	FGGM 21			Medical Waste Site – BRAC	CLOSED
OU-17	FGGM 31			Tipton Inactive Landfills 2 and 3 -- BRAC Inactive Landfill 2 is also listed under FGGM 007-R-01. This area of interest (AOI) is also part of the Tipton Airfield Area Operable Unit (TAA OU)	OPEN
OU-18	FGGM 32			Fire Training Area – BRAC This AOI is also part of the Tipton Airfield Parcel Operable Unit (TAP OU)	OPEN
OU-19/ OU-4	FGGM 33		Former Building 2283	Battery Shop	OPEN
OU-20	FGGM 36	Non-SWMU 10 and 11	Buildings 4552 and 4553	Photographic Laboratory Building, Oil/Water Separator and Wash Racks (WRs)	CLOSED
OU-20	FGGM 36	SWMUs 105, 106, 107, 108	Building 6530	Photographic Laboratory Building	OPEN
OU-21	FGGM 37	SWMU 71	Building 2480	Kimbrough Army Hospital	OPEN

Operable Unit	FGGM Number	SWMU Number	Building Number	Site Identifier	Status
OU-22/ OU-4	FGGM 45	SWMU 42	Building 2220	Calibration Laboratory Building. Both FGGM 45 and FGGM 91 are identified with Building 2220.	OPEN
OU-04	FGGM 47	SWMU 59, 60	Building 2250	Post Laundry	OPEN
OU-23/ OU-4	FGGM 49		Buildings 2286 and 2246	DOL (Department of Logistics) Building 2286 is also under FGGM 86; Building 2246 is also under FGGM 92	OPEN
OU-24/ OU-4	FGGM 51		Building 2217	Spill site	OPEN
OU-25	FGGM 70	SWMU 150	Building 6513	Indoor Range Former Building 6513 (SWMU 150)	OPEN
OU-26	FGGM 71	SWMU 151 and 152	Building 6522	Ex Indoor Range Former Building 6522 (SWMUs 151-152)	OPEN
OU-27	FGGM 72			Petroleum, Oil, and Lubricants (POL) Storage Tanks – BRAC	CLOSED
OU-28	FGGM 73		Buildings 85 and 90	Maintenance Shops Buildings 85 and 90 – BRAC	OPEN
OU-29	FGGM 74	SWMU 1, 2, 3, 4, 5, 6, 7, 8, 9	Buildings 71, 72, 72A	USAOC site	OPEN
OU-30	FGGM 75			Underground Storage Tanks prior to 1984	CLOSED
OU-32	FGGM 80		Helicopter Hangar #90	Helicopter Hangar 90 – BRAC Helicopter Hangar Area (HHA)	OPEN
OU-33	FGGM 81			Clean Fill Dump – BRAC The CFD OU consists of the CFD and the Uncontrolled Waste Site (UWS), which is immediately south of the main dump. FGGM 001-R-01 is clean fill dump/ Munitions and Explosives of Concern (MEC)	OPEN
OU-34	FGGM 82			Munitions and Explosives of Concern (MEC) Removal – BRAC see FGGM 002-R-01	OPEN
OU-1	FGGM 83	SWMU 153 and 154	Buildings 2047 and 2046	Former Trap and Skeet Range Building 2047 is SWMUs 153 and 154	OPEN
OU-35	FGGM 85			MEC Tipton Army Airfield - BRAC	OPEN
OU-3	FGGM 87	SWMU 22, 23, 24, and 145	Buildings 1974, 1976, 1977, and 1978	Former Nike Fire Control Site Buildings	OPEN
OU-4	FGGM 86	SWMU 65, 66, 67, 70	Building 2286 and former Buildings 2285 and 2290	Former Motor Pool (MP) Maintenance Facility	OPEN

Operable Unit	FGGM Number	SWMU Number	Building Number	Site Identifier	Status
OU-4	FGGM 88	SWMU 37	Building 2207, 2201, 2204, and 2206	Former Tank Maintenance Facility	OPEN
	FGGM 89	SWMU 39, 40, 41	Building 2217	Former Tank Maintenance Facility; Oil/Water Separator 20, Wash Rack K	OPEN
	FGGM 90	SWMU 45, 46, 47, 48, 49, 50, 51, 52, 53, 54	Buildings 2240, 2241, 2242, 2243, 2247, 2248, 2249	Former Tank Cleaning Supply Warehouse	OPEN
	FGGM 91	SWMU 42	Building 2220	Groundwater at Former Missile Repair Shop Building 2220	OPEN
	FGGM 92	SWMU 55, 56, 57, 58, 61, 62	Buildings 2246, 2246D, 2244, 2245, 2253	Former Heavy Gun Cleaning and Repair Shop	OPEN
	OU-36	FGGM 93			Manor View Dump. Including incinerator and old landfill – 1938.	OPEN
OU-37	FGGM 94			Trap and Skeet Range 17 - BRAC	OPEN
OU-45	FGGM 95 (Former Landfill Sites)			Possible Dump Site A-1957 – Former Compliance Cleanup site	OPEN
				Possible Dump Site B-1957	OPEN
				Possible Dump Site C-1957	CLOSED
				Possible Dump Site D-1957	CLOSED
				Possible Dump Site E-1957/Site 1957E	OPEN
				Possible Dump Site F-1957	CLOSED
				Possible Dump Site G-1957	OPEN
				Possible Dump Sites - 1970	OPEN
				Site M - Parcel 1	CLOSED
				Site M - Parcel 2	CLOSED
		SWMU 131, 132, 133, 134, 135, 136, 137	Buildings 21, 8860, 8870, 8880, 8881, 8890, 8890A, 8891	Site M - Parcel 3 Golf Course Maintenance Facilities	CLOSED

Operable Unit	FGGM Number	SWMU Number	Building Number	Site Identifier	Status
OU-45	FGGM 95			Site M - Parcel 4 Former Training Area	CLOSED
				Site M - Parcel 5 Farm House	CLOSED
				Site M - Parcel 6	CLOSED
				Site M - Parcel 7 Training Area	CLOSED
				Site M - Parcel 8	OPEN
				Site M - Parcel 9 Ground Scar	CLOSED
				Inactive Landfill 4	OPEN
				Pre-WWII Laundry at USAOC	OPEN
				Taylor Avenue Buried Drum Site	CLOSED
				Waste Storage/Disposal 1938	OPEN
				Fill – 1988	OPEN
				Small Pit –1952	OPEN
OU-46	FGGM 96			Former MP-1/WR-4	OPEN
				Former MP-2	OPEN
				Former MP-3/WR-2	OPEN
				Former MP-4	OPEN
				Former MP-5 (Possible Vehicle Storage Area – 1957)	OPEN
				Former MP-6	OPEN
				Former MP-7/WR-6	OPEN
				Former MP-8	OPEN
				Former MP-9	OPEN
				Former MP-10	OPEN
				Former MP-11/-WR-7	OPEN
				Former MP-12/-WR-8	OPEN
				Former MP-13/-WR-9	OPEN
				Former MP-14	OPEN
				Former MP-17	OPEN
				Former MP-18/-WR-12	OPEN
				Former MP-19/-WR-13	OPEN
				Former WR-3	OPEN
				Former WR-5	OPEN
				Debris and Stain – 1975	OPEN
				Chisholm Ave. and 6th Street	OPEN
		SWMU 010	Building 294	DPW (Directorate of Public Works) Entomology Department	CLOSED

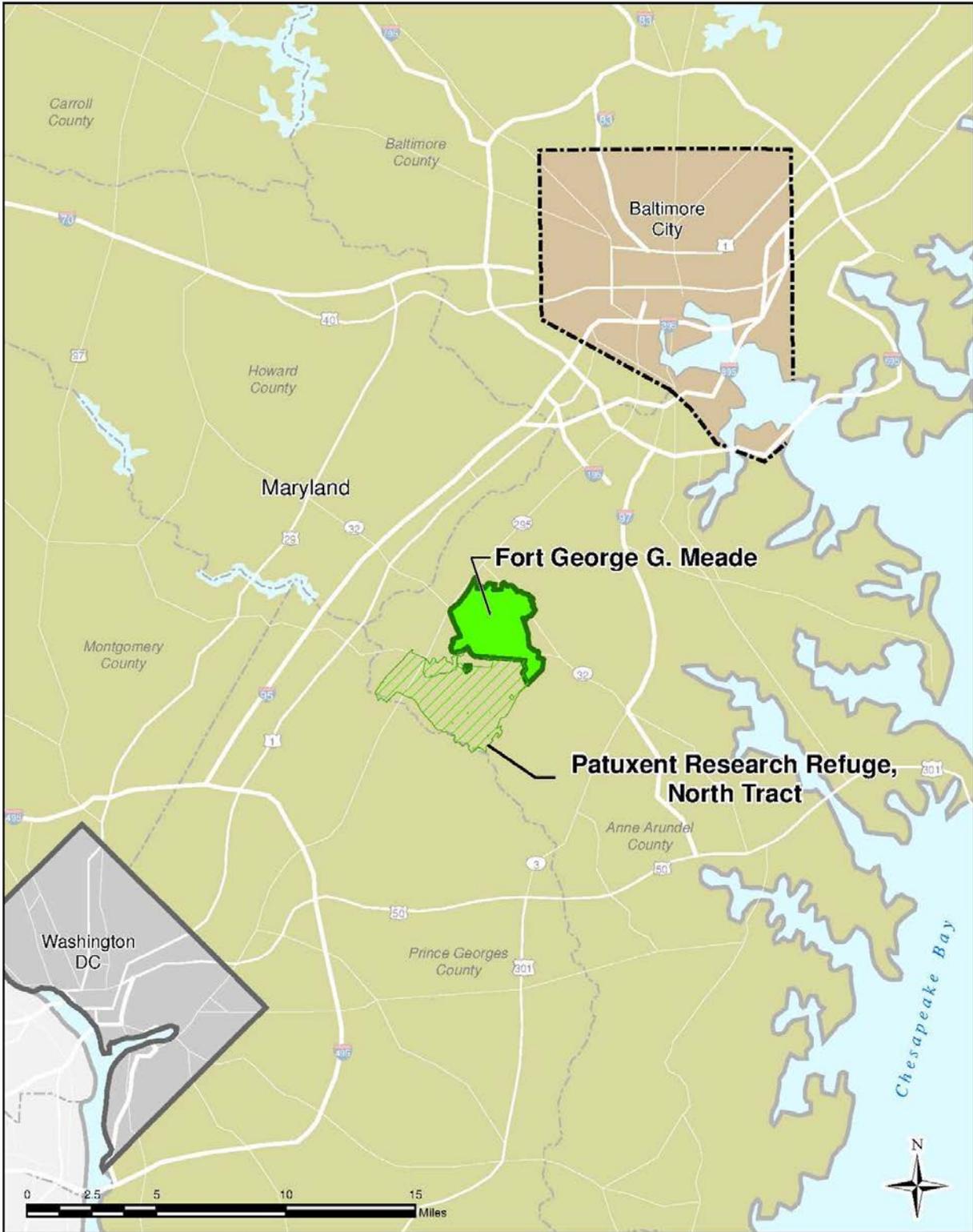
Operable Unit	FGGM Number	SWMU Number	Building Number	Site Identifier	Status
OU-46	FGGM 96	SWMU 011	Building 546	Photography Laboratory	OPEN
		SWMU 012, 013, and 146	Building 940	MP and associated wash rack and oil/water separator	OPEN
		SWMU 014, 015, 016, 017, and 018	Building 1007	Army Reserve MP, Vehicle Maintenance, Motor Repair Shop, Oil/Water Separator and Wash Rack	OPEN
		SWMU 019, 020, and 021	Building 1251	Administrative and Vehicle and Equipment Storage	CLOSED
		SWMU 025, 026, 027 and 028	Building 2120c	Vehicle Storage and Maintenance Oil/Water Separator and Wash Rack	OPEN
		SWMU 029 and 030	Building 2121	Vehicle Maintenance	CLOSED
		SWMU 031	Building 2122	Vehicle Maintenance	CLOSED
		SWMU 032	Building 2123	Tent/Jeep Storage	CLOSED
		SWMU 033 and 034	Building 2124	Vehicle and Tool Storage, Vehicle Maintenance	CLOSED
		SWMU 035 and 036	Building 2128	Vehicle Maintenance and 1941 Vehicle Maintenance. MP-16 & WR-11	OPEN
OU-4/ OU-46	FGGM 96	SWMU 038	Building 2213	Sheet metal and sign fabrication shop	OPEN
OU-46	FGGM 96	SWMU 043, 044, and 147	Building 2227 and 2224	Building, Wash Rack, and Oil/Water Separator demolished 1999	OPEN
OU-4/ OU-46	FGGM 96		Building 2266	No issues associated with this building	OPEN
OU-4/ OU-46	FGGM 96	SWMU 063 and 064	Building 2276	Furniture Repair Shop	OPEN
OU-4/ OU-46	FGGM 96	SWMU 068	Building 2287	NSA MP storing equipment and chemicals. Located within the outline of FGGM 86	CLOSED
OU-4/ OU-46	FGGM 96	SWMU 069	Building 2288	Paint Storage Shed. May be located within the outline of FGGM 87.	OPEN
OU-46	FGGM 96	SWMU 072	Building 2482	Used oil recycling rack at hospital boiler plant	OPEN
		SWMU 073	Building 2484	Hospital Chemical Facility	CLOSED

Operable Unit	FGGM Number	SWMU Number	Building Number	Site Identifier	Status
OU-46	FGGM 96	SWMU 074	Building 2490	Forensic Toxicology and Drug Testing Lab	OPEN
		SWMU 075 and 076	Building 2501	Shipping And Receiving	OPEN
		SWMU 077, 078, and 079	Building 2630	Dispatch, storage and parking area for emergency medical units, wash rack	OPEN
		SWMU 080, 081, 082, 083, 084, 085, 086	Building 2724	Directorate of Personnel and Community Activities Outdoor Recreation Equipment Rentals, Wash Rack.	OPEN
		SWMU 087, 088, 089, 090, 091, 092, 148	Building 2728	Out of Service Wash Racks, Recreational Equipment Storage, oil/water separator, Recreational Vehicle (RV) storage and maintenance shop	OPEN
		SWMU 093	Building 2802	Dental Research Lab (demolished in 2000). Dayroom (1941)	CLOSED
		SWMU 094	Building 2804	Chemical Storage, Electron Microscopy Lab	CLOSED
		SWMU 095	Building 2805	Laboratory/Chemical Storage Officer's Mess Hall (1941)	CLOSED
		SWMU 096 and 097	Building 2831	Dentistry training and clinic, x-ray processing lab and chemical storage	CLOSED
		SWMU 098	Building 3000	Maintenance Shop Screen repair, industrial shop	OPEN
		SWMU 099	Building 4411	Administrative Hospital (1930)	OPEN
		SWMU 100	Building 4554	Support facility for intelligence agencies photo labs	CLOSED
		SWMU 101 and 102	Building 4587	Equipment storage and Army and Air Force Exchange Service (AAFES) personnel vehicle repair shop and wash rack	OPEN
		SWMU 103	Building 4680	Gas station and detailing shop	OPEN
		SWMU 109	Building 8472	Dental clinic	CLOSED
		SWMU 110 and 111	Building 8480	Military Vehicle and Equipment Storage	OPEN
SWMU 115, 116, and 116A	Building 8485	Military Vehicle and Equipment Storage	OPEN		

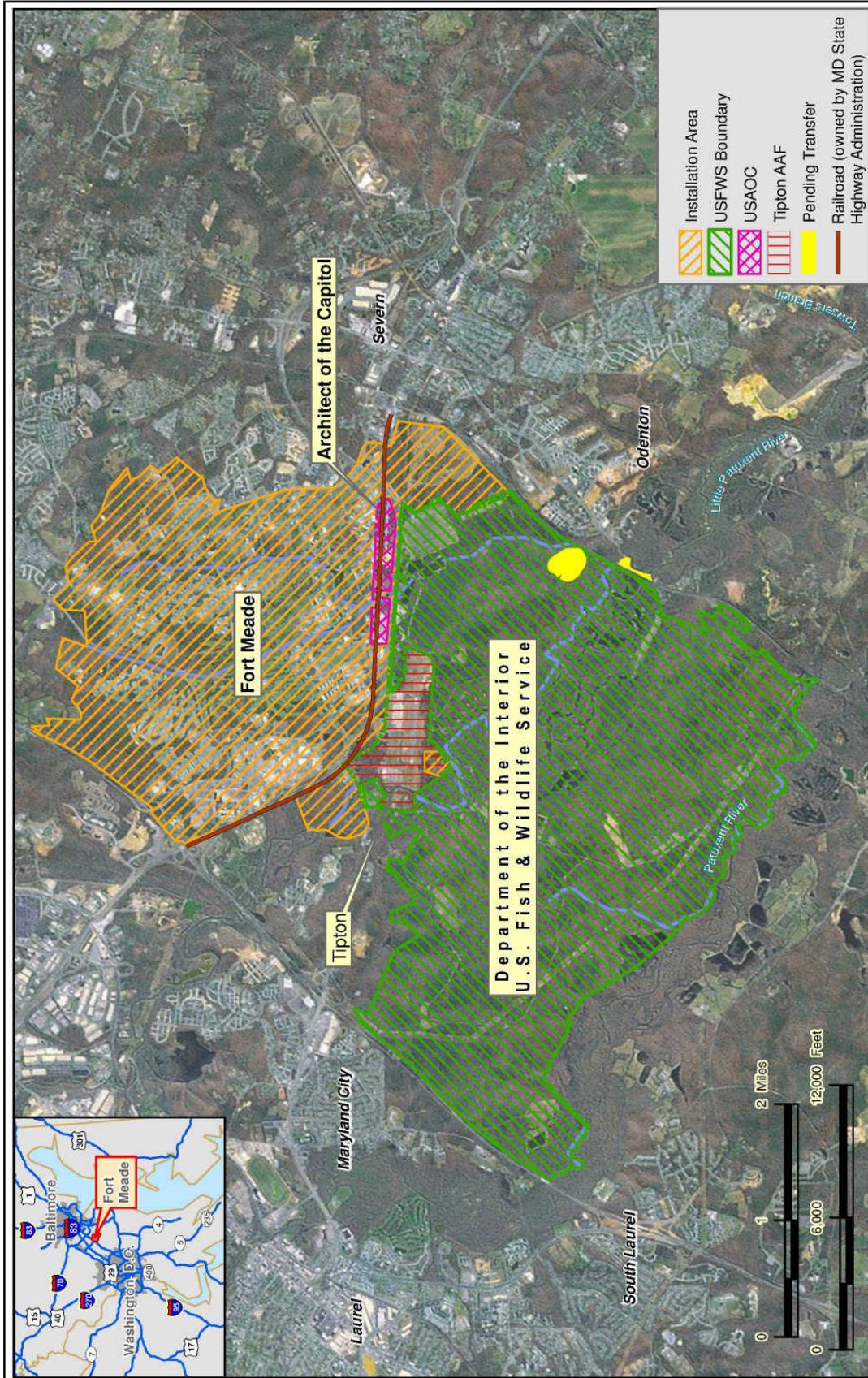
Operable Unit	FGGM Number	SWMU Number	Building Number	Site Identifier	Status
OU-46	FGGM 96	SWMU 117 and 118	Building 8486	MP	OPEN
		SWMU 119 and 120	Building 8487	MP	CLOSED
		SWMU 121, 122, 123, 124, 125, 126, 127, 128, and 149	Building 8549, 8550, and 8551	Practice Hall and Instrument Storage for Musicians MP Maintenance Facility With Wash Rack and Oil/Water Separator	OPEN
		SWMU 138	Building 9581	Wastewater Treatment Plant	OPEN
		SWMU 139 and 140	Building 6800	Wash Rack and Oil Water Separator at current golf course club house	CLOSED
			Building 6865	Wash Rack and Oil Water Separator at former golf course club house	CLOSED
		SWMU 141 and 142		Privately Owned Vehicle Wash Rack	CLOSED
		SWMU 143 and 144		Wash Rack and Oil/Water Separator	CLOSED
		Non-SWMU 1, 2, 3, 4	Buildings 2454, 2455, 2456, 2457	Administration Buildings	CLOSED
		Non-SWMU 5	Building 2801	Research/Administration Building (demolished in 1999-2000)	CLOSED
		Non-SWMU 6, 7, 8	Buildings 2810, 2811, 2832	Dental Research Buildings (all demolished in 1999-2000)	OPEN
		Non-SWMU 9	Building 4272	Vacant Warehouse	OPEN
		Non-SWMU 12 and 13	Building 9802 and 9803	Troop Housing	CLOSED
				Possible Vehicle Service Area A - 1943	OPEN
				Possible Vehicle Service Area B - 1943	OPEN
				Former Incinerator Building - 1943	OPEN
		Oil Tanks	CLOSED		
		Stained Soils along 3 rd Street	OPEN		

Operable Unit	FGGM Number	SWMU Number	Building Number	Site Identifier	Status
OU-46	FGGM 96			Former Incinerator Site - Reece Road	OPEN
OU-38	FGGM 001-R-01			Clean Fill Dump MMRP [Military Munitions Response Program]. FGGM 81 is clean fill dump IRP.	OPEN
OU-39	FGGM 002-R-01			High Explosive Impact and Disposal - BRAC	OPEN
OU-40	FGGM 003-R-01			Former Mortar Range Munitions Response Site (MRS)	OPEN
OU-40	FGGM 003-R-02			Training Area MRS	OPEN
OU-41	FGGM 004-R-01			Grenade & Bayonet Range A	CLOSED
OU-42	FGGM 005-R-01			Pistol Range A	CLOSED
OU-43	FGGM 006-R-01			Pistol Range B	CLOSED
OU-44	FGGM 007-R-01			Inactive Landfill 2	OPEN
	FGM 008-R			Grenade & Bayonet Range B	OPEN
				6-Acre Little Patuxent River Site	OPEN
				Nevada Avenue	OPEN
			8484	Grant Street at Building 8484 – Spill Notification	CLOSED
			1978	20th Street at Route 175 near Building 1978 – Spill Notification	CLOSED
			195	1st Street in front of Building 195 – Spill Notification	CLOSED

Operable Unit	FGGM Number	SWMU Number	Building Number	Site Identifier	Status	
OU-4	FGGM 33		2283	Battery Shop Building	OPEN	
	FGGM 45		2220	Calibration Laboratory Building		
	FGGM 47		2250	Post Laundry Building		
	FGGM 49		2286 and 2246	DOL Buildings		
	FGGM 51		2217	Spill site		
	FGGM 86		2286	Former MP Maintenance Facility		
	FGGM 88		2207	Former Tank Maintenance Facility Shop 1		
	FGGM 89		2217	Former Tank Maintenance Facility Shop 2		
	FGGM 90		2240	Former Tank Cleaning Warehouse		
	FGGM 91		2220	Former Missile Repair Shop		
	FGGM 92		2244, 2245, 2246, 2246D, and 2253	Former Heavy Gun Cleaning and Repair Shop		
	FGGM 96			Monitoring Wells (MWs) 125d and 126d		
	FGGM 96			2213		
	FGGM 96			2266		Furniture Repair Shop
	FGGM 96		SWMU 68	2276		
FGGM 96	SWMU 69	2287	Paint Storage Shed Building			
		2288	Wash Rack 5			
			Debris and Stain - 1975			



CLIENT USACE, Baltimore District				TITLE Regional Location Map	
PROJ New PA/SI					
REVISION NO	3	GIS BY	JMW/AER	6/5/2012	
SCALE	1" = 5 miles	CHK BY	JK	6/5/2012	
G:\Projects\Fort_Meade\SiteManagement\FortProjects\Figure_1_Location_NewRoads_20081002.mxd		PROJ MGR	JK	6/5/2012	
			12420 Milestone Center Drive Germantown, MD 20876		Figure FGGM-1



CLIENT		U.S. Army Corps of Engineers, Baltimore District	
DATA SOURCE		USA Prime Imagery, 11/15/2008.	
REVISION NO	0	GIS:	AER
SCALE	1:72,000	CHECKED:	GK
<small>GIS Project: Fort Meade, PA, ST, New River, etc. Figure 1 - Jurisdictional Boundaries</small>		PROJ. MGR	GK
			6/5/2012
TITLE		Fort George G. Meade Jurisdictional Boundary Maps	
			
			
		12420 Milestone Center Drive Germantown, MD 20876	
		Figure FGGM-2	

2.0 Site Descriptions by Source Funding

2.1 Installation Restoration Program Open Sites

2.1.1 FGGM 07 (OU-5) – DRMO Drum Site

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA/SI 1992-1994
RI/FS 1994-2011
SI June 1995
IRA..... 1995-1997
Sampling Visits 1999 and 2006
Groundwater Investigation 2000
RI 2000 and 2003
Baseline RA 2003
RA(C)..... 2004-2013
RD 2004-2012
RA(O) 2004-2025
FFS..... 2007

FFS Technical Addendum on Pre-Design Plume Delineation and Data Collection 2010

Contaminants of Potential Concern: Volatile organic compounds (VOCs)

Media of Concern: Groundwater

Site Location: Grid F5, at the intersection of Rock Avenue and Remount Road along the southern boundary of the installation.

Site Description: This AOI is approximately 9 acres and comprises the Covered Storage Facility (CSF) at the former Salvage Yard portion of the former Defense Property Disposal Office (DPDO). The CSF is also identified as the DRMO warehouse.

DPDO was an open storage/disposal area for automobiles, drums, water heaters, heating units, dry cleaning machines, spent battery transformers, pipe, and scrap metal.

Previous Studies: A total of 267 drums, 2 transformers, 1 high voltage box, and 3,500 tons of contaminated soil were removed in 1995 after the discovery of a few buried drums on June 15, 1995.

After completion of the environmental investigation, the site was completely paved and



FGGM 07 - DRMO Drum Site
0 100 200 400 Feet

the operation of the DRMO resumed along with the newly constructed CSF.

Current Use: DRMO

Current Status: The Army's contractor completed pre-design supplemental plume delineation and data collection in 2009 and submitted a Draft FFS Addendum Technical Report on Pre-Design Plume Delineation and Data Collection (Kemron/Arcadis, 2010) to EPA and MDE in March 2010. The Army completed additional RI fieldwork in 2011 to address outstanding EPA comments with the 2003 RI and Baseline Risk Assessment (BRA).

Cleanup/Exit Strategy: Future work includes addressing outstanding EPA comments on the 2003 RI/BRA, preparing a revised Final RI, and revising the 2007 FFS accordingly.

2.1.2 FGM 08 (OU-7) – Comp Ammunition Supply Point (ASP) No. 1

Regulatory Driver: CERCLA

Previous Environmental Investigations

Enhanced PA.....	1989
SI.....	1992
PA.....	1995-1996
SI.....	1995-2011
IRA.....	1998-1999
Groundwater RI.....	2007
The CSL Schedule:	
RD.....	2012-2013
IRS.....	1998
RA(C).....	2013-2018
RA(O).....	2013-2018
LTM.....	2018-2023

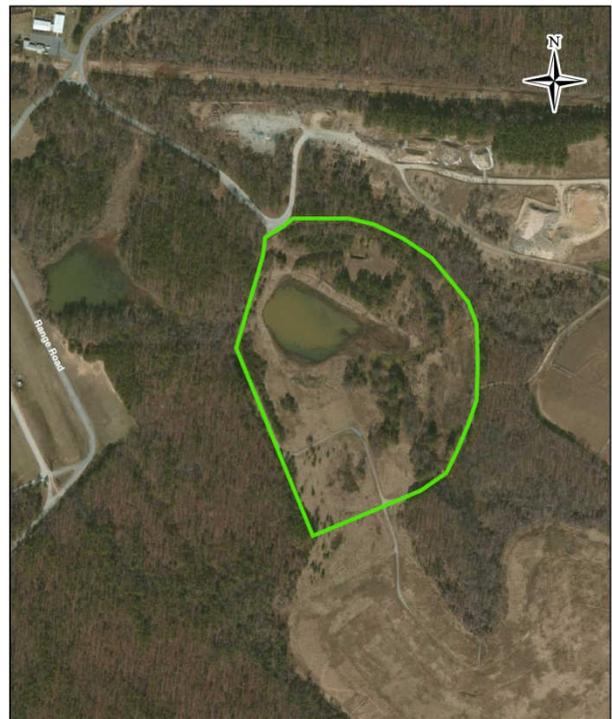
Contaminants of Potential Concern: Metals

Media of Concern: Soil

Site Location: Grid H5/I5 and H6/I6, in the middle of the CSL, in the southeastern portion of the cantonment area.

Site Description: This AOI is located within the outline of the CSL. Chemical munitions used at Fort Meade included smoke grenades and Riot Control Agents (RCAs) for training purposes (Argonne, 1989). These items were stored at ASP 1. Riot control agents were stored in bulk (50 pound (lb) drums), canister, and capsule form. The smoke grenade includes a mixture of grained aluminum, zinc oxide, and hexachloroethane as well as colored smokes. In the 1950s, an unknown number of chemical agent identification sets were stored in ASP 1. The final disposition of these sets is unknown.

Previous Studies: Over the course of previous investigations at this AOI, 21 surface soil, 6 subsurface soil, 1 surface water sample, and 6 sediment samples were collected and submitted for laboratory analysis. In addition, both shallow and deep groundwater at the CSL has been monitored, including explosives and some wells are located near ASP-1.



FGM 08 - Comp Ammunition Supply Point No. 1 (OU-7)
 0 200 400 600 Feet

Soil samples were collected around the magazine locations (EM Federal, 2007). One surface and 1 subsurface soil sample were collected from each of 6 former magazine locations in the former ASP area to assess the potential for soil contamination due to spills or leaks. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.

Current Use: Grass, trees, and a pond occupy this AOI.

Current Status: The current PA/SI recommended NFA for this AOI.

Cleanup/Exit Strategy: This site has an IRA and RI; closeout will require a Record of Decision (ROD). Since this AOI is located within the CSL, it will be included in the ROD for the CSL.

2.1.3 FGGM 11 (OU-9) – Gas Training Building 73

Regulatory Driver: CERCLA

Previous Environmental Investigations

Comprehensive Site Assessment..... 1997
PA..... 1997
SI 1997 to 2011
PA/SI 2010 to 2012

Contaminants of Potential Concern: Cyanide and “CS” tear gas (ortho-chlorobenzylidene malononitrile).

Media of Concern: Soil and groundwater

Site Location: Grid H6, Building 73 is in the southeast portion of the installation, in the southwest portion of the Closed Sanitary Landfill.

Site Description: Building 73 was formerly a Gas Training Building and is identified as a gas chamber on maps from 1976 (Defense Mapping Agency, 1976) and 1980 (USACE, 1980). Building 73 has concrete floors and walls. Building 73 was used for tear gas training during WWI and respiratory protection training for riot control agents from 1965 to 1979. Building 73 was later converted for use by the Defense Information School for urban facility inspection training.

Previous Studies: Over the course of previous investigations at this site, 7 wipe samples were collected from interior building material surfaces on March 14, 1997 and submitted for laboratory analysis. No tear gas components were reported in the analytical results.

Building 73 has concrete floors and walls and the tear gas agent was only released inside the building. There is very low potential for the tear gas agent or its decomposition products to have entered the soil or groundwater surrounding Building 73.



FGGM 11 - Gas Training Building 73
0 40 80 160 Feet

Current Use: Vacant building

Current Status: Although no tear gas components were detected on interior building material surfaces, the soil and groundwater surrounding the building have not been tested. A PA/SI is underway with a recommendation to collect 3 surface soil samples to be analyzed for CS and cyanide; install 3 groundwater monitoring wells, collect and analyze groundwater samples for CS and cyanide.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

Prior to AOI closeout, Building 73 should be properly decontaminated in a manner appropriate for CS, which is a strong irritant that is incompatible with strong oxidizers.

2.1.4 FGGM 13 (OU-10) – Former Pesticide Shop, Building 6621

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA/SI.....	1997
Site Investigations.....	1997, 2003, and 2004
RI/FS.....	2004-2012
RD	2012-2012
RA(C).....	2013-2013
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. Pesticides stored at the building included malathion, diazinon, and baygon. During this time, it was also used as a maintenance facility for lawn mowers, tractors, and other landscaping equipment. The building was demolished in 1996 and the area graded.

Previous Studies: Site investigations were conducted after the building was demolished and the site regraded. Soil sampling results indicate that the following chemicals were detected above EPA Region 3 risk-based concentrations (RBCs): chlordane, alpha-chlordane, gamma-chlordane, 4,4-DDD, 4,4-DDE, 4,4-DDT, 2,4-D, heptachlor, dieldrin, arsenic, and mercury. Groundwater was not assessed. In June 2007, the Draft Final RI determined that surface and shallow subsurface soils at the former Pesticide Shop are contaminated with pesticides (primarily chlordane) and arsenic. The pesticide contamination is more extensive than the arsenic contamination (URS Group, Inc., 2007a).

Additional RI work conducted in 2010 indicated that groundwater is contaminated with pesticides at low levels (primarily chlordane). Groundwater pesticide



FGGM 13 - Pesticide Shop Building 6621
0 25 50 100 Feet

concentrations decrease substantially away from the pesticide handling area. Tetrachloroethene (PCE) was also detected in 2 wells in the vicinity of the former pesticide shop and also decreases in concentration away from the pesticide handling area to non-detect. The human health risk assessment (HHRA) 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 1 for the future hypothetical resident.
- The cumulative non-cancer hazard estimates are greater than 1 for the future construction worker.

Current Use: The site is currently fenced and used for equipment storage.

Current Status: An FS is being developed.

Cleanup/Exit Strategy: Complete the FS. Possible soil actions include no action, land use controls (LUCs), and removal. Possible groundwater actions include no action, LTM, and in-situ bioremediation

2.1.5 FGGM 17 (OU-12) – Closed Sanitary Landfill

Regulatory Driver: CERCLA/ Resource Conservation and Recovery Act (RCRA) (for post closure LTM)

Previous Environmental Investigations

PA/SI..... 1980-1992
 RI/FS..... 2001-2012
 RD 2012-2013
 IRS..... 1998
 RA(C)..... 2013-2018
 RA(O)..... 2013-2018
 LTM 2018-2023

Contaminants of Potential Concern: VOCs, metals, and pesticides

Media of Concern: Groundwater

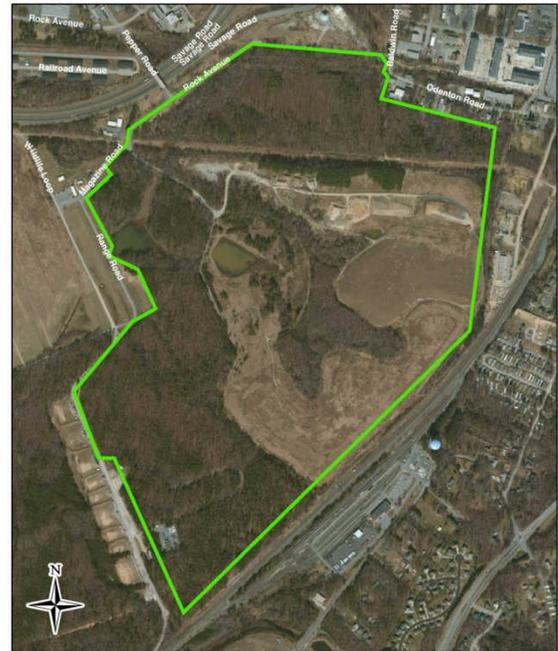
Site Location: Grids H5, I5, H6, I6, along the southeastern boundary of the installation, south of State Route 32.

Site Description: Landfilling operations were conducted at FGGM 17 from 1958-1976, using the trench fill method. FGGM 17 was constructed as an unlined facility with no leachate collection system and was initially designated as the Active Sanitary Landfill. FGGM 17 was divided into Cell 1 and Cell 2. These two cells were separated by a drainage swale. Cell 3 (a third area that lacks topographic expression) was the only trench type disposal area. Cells 1 and 2 were capped with clay in 1992.

Surface water retention ponds are located along a small stream that bisects the site. A landfill-gas collection and treatment system operates along the eastern edge of the landfill cells to control emissions from the site.

Previous Studies: Soil borings were drilled to characterize the depth and nature of the waste materials in the Cell 3 area. Surface soil samples were collected from the landfills to help assess potential exposure pathways. Groundwater and surface water samples are collected on a semi-annual schedule.

The HHRA completed as part of the RI found that:



- Surface / sub-surface soil, sediment, and surface water media from the CSL do not present unacceptable risk to human receptors on-site and off-site under current and future land use scenarios.
- Exposure to groundwater under the hypothetical future resident scenario exceeded the EPA target risk range and hazard level.

Current Use: The CSL was closed in January 1996 and is currently grass covered. Much of the surrounding area is wooded and several areas are identified as wetlands.

Current Status: Semiannual groundwater and surface water monitoring and active methane collection are ongoing at the CSL. The Army is also attempting to gain access to conduct an off-site investigation to further delineate the presence of benzene near the southeastern CSL boundary.

Cleanup/Exit Strategy: An FS is being completed for the CSL, possibly leading to a ROD with land use controls for the CERCLA site and continued post closure care monitoring of the landfill under RCRA.

2.1.6 FGGM 18 (OU-13) – Ammunition Supply Point No. 2

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA..... 1996
 SI.....2009-2011
 PA/SI 2010-2014

Contaminants of Potential Concern: metals and explosives

Media of Concern: Soil and groundwater

Site Location: Grid F6, FGGM 18 is in the north-central portion of the Patuxent Research Refuge-North Track (PRR-NT), south of the Tipton parcel.

Site Description: The 1989 Enhanced PA Report (Argonne, 1989) states the: “chemical munitions used at Fort Meade included smoke grenades and RCAs for training purposes. These items were stored at ASP 1. Riot control agents were stored in bulk (50 lb. drums), canister, and capsule form. The smoke grenade includes a mixture of grained aluminum, zinc oxide, and hexachloroethane as well as colored smokes. In the 1950s, an unknown number of chemical agent identification sets were stored in ASP 1. The final disposition of these sets is unknown.” The site is currently vacant and unused.

Previous Studies: According to the IAP (Fort Meade, 2008c), a PA was completed for this AOI in 1996. According to the analytical results provided in the Environmental Restoration Information System (ERIS) database, 1 surface water sample, 1 sediment sample, and 2 soil samples were analyzed for VOCs, semivolatile organic compounds (SVOCs), metals, pesticides, herbicides, and PCBs. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels. However, the AOI was in use after this sampling, so additional sampling to characterize current conditions is warranted.



FGGM 18 - Comp Ammunition Supply Point No. 2 (OU-13)
 0 250 500 1,000
 Feet

Current Use: Grass, trees, roadways, and igloos cover this AOI.

Current Status: An SI is underway with a recommendation to collect 12 surface soil samples to be analyzed for metals and explosives.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.7 FGGM 19 (OU-14) – Advanced Wastewater Treatment Facility

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA..... 1980-1982
 SI 1980-2012
 SWMU Study 1996
 RFA 3rd Phase..... 1999
 Geophysical Survey 2004
 PA/SI 2010-2014

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid E4, the Advanced Wastewater Treatment Facility is in the southwest portion of the installation, approximately 600 feet southwest of the intersection of State Route 32 and State Route 198.

Site Description: FGGM 19 is identified as the Advanced Wastewater Treatment Facility. FGGM 19 includes Building 9581 - Wastewater Treatment Facility (also identified as SWMU 138). SWMU 138 is discussed separately.

Previous Studies: Over the course of previous investigations at this site, 1 surface soil samples, 18 subsurface soil samples, and nine groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic and chromium elevate the risk numbers above the site-specific action levels.



Building 9581 - Wastewater Treatment Plant
 0 60 120 240 Feet

Current Use: Wastewater Treatment Facility

Current Status: The current PA/SI recommends NFA for this AOI. Since there is a duplication of site names for this AOI, Fort Meade can administratively close the AEDB-R number FGGM 19, any further action at this site can be covered under SWMU 138.

Cleanup/Exit Strategy: This site has been proposed for NFA in a Consensus Letter document and this document is currently under regulatory review.

2.1.8 FGGM 31 (OU-17) – Tipton Inactive Landfill 2

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA/SI 1980-1982
 Site Investigation 1994 and 1998
 RI/FS 1995-1998
 Ordnance Survey 1994
 Ordnance Clearance 1995–1997
 Miscellaneous Debris Removal 1998
 RD 1995-1999
 ROD 1999
 5 year reviews 2005, 2011

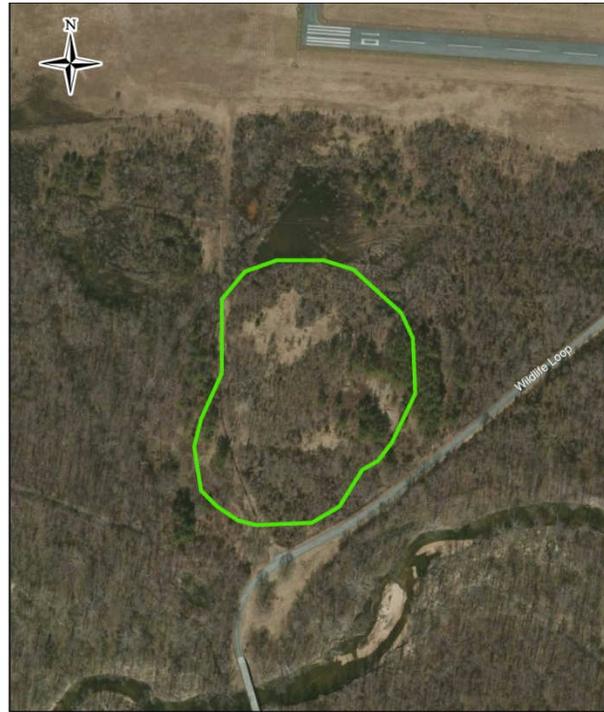
Contaminants of Potential Concern: VOCs, SVOCs, and total petroleum hydrocarbons (TPH)

Media of Concern: Groundwater

Site Location: Grid E6, east of State Route 198 and south of State Route 32 on the southern portion of the Tipton Army Airfield on approximately 10 acres of land north of New Tank Road (now Wildlife Loop).

Site Description: FGGM 31 is listed as Inactive Landfills (IALs) 2 and 3 in the AEDB-R. IAL2 and IAL3 are discussed separately in this SMP because they are funded under separate programs. IAL3 is a BRAC site, information about IAL3 can be found under the BRAC section (section 2.2.2) of the SMP. IAL2 was part of the BRAC Tipton Army Airfield parcel but was retained by the Army. IAL2 is an active Army site funded under the IRP.

IAL2 was initially operated as a soil borrow area starting around 1938. Sometime after 1952 the area was operated as an unlined rubble disposal area that reached its maximum extent by 1963. Continued disposal activity occurred after 1980 in the northern portion of IAL2 where graded and disturbed areas are visible in 1986 aerial photographs. During the RI fieldwork, piles of rubble (brush, concrete, and asphalt debris) which appear to be of more recent origin, were observed in a marshy area on the north side of IAL2.



FGGM 31 - Inactive Landfill 2
 0 150 300 600 Feet

Previous Studies: The RI report documents the findings associated with the TAP OU. These findings indicate that contaminants detected in the environment (including benzene and aminodinitrotoluene [amino-DNT]) do not pose unacceptable risks to human health and the environment.

Current Use: None, grass and trees cover this AOI.

Current Status: FGGM 31 is currently monitored under a 1999 ROD. The June 1999 ROD for TAP OU established the site remedy for IAL1 and IAL2 as NFA with groundwater monitoring and 5-year reviews. Groundwater is sampled every 2 years and the need for continued monitoring is evaluated on a 5-year review cycle. Two 5-year reviews have occurred since the ROD was signed (USACE, 2005c and 2011). A maintenance inspection of the fence surrounding IAL2 is conducted annually.

Cleanup/Exit Strategy: Future work includes continuation of the Corrective Measure Operation and Maintenance (O&M), which includes long-term groundwater monitoring (LTGM) 5-year reviews, and annual maintenance inspections as indicated in the schedule in Section 3.

2.1.9 FGGM 36 (OU-20) – Photographic Laboratory, Building 6530

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU 1996
Historic Aerial Photograph Study..... 1996
RFA 3rd phase 1999
Data Gap Investigation.....2002
PA/SI 2010-2014

Contaminants of Potential Concern: Metals

Media of Concern: Groundwater

Site Location: Grid F4, Building 6530 is in the southwestern portion of the installation, at the intersection of Taylor Avenue and Gordon Street.

Building 6530 is part of FGGM 36, an Auto Repair and Craft Center, which also includes Building 4553, which is discussed separately.

Site Description: Building 6530 is a vehicle maintenance facility (SWMU 105) with nearby oil/water separator (SWMU 106) and wash racks (SWMUs 107 and 108). Approximately 1/3 of the building used as a craft center for installation residents involved in woodworking, ceramics, framing, and similar recreational activities. No chemicals except typical cleaners are kept in the crafts portion of the building. The auto repair facility stores oil, anti-freeze, and Freon. Used oil cans, oil filters, and rags are stored in 55-gallon drums for eventual removal. All floor drains in the auto repair area flow to an oil/water separator (SWMU 106), which also receives Wastewater from two wash racks (SWMUs 107 and 108) at the site. An 800-gallon waste oil above-ground storage tank (AST) is located at the northern exterior wall of the building.

Previous Studies: As part of the RCRA Facility Assessment (RFA) 3rd Phase, 16 direct-push borings were advanced around the building. 3 surface soil samples, 12 subsurface soil samples, and 1 groundwater sample were collected using a direct-push sampling rig. Based on a risk analysis of the analytical results, mercury, arsenic, and chromium elevate the risk numbers above the site-specific action levels.



FGGM 36 (OU20) – Building 6530 - Auto Repair and Craft Center
0 30 60 120
Feet

Current Use: Auto Repair and Craft Center

Current Status: A PA/SI is underway with a recommendation to install 1 groundwater monitoring well and collect and analyze the groundwater sample for metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.10 FGGM 37 (OU-21) – Kimbrough Army Hospital Building 2480

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996

Sampling Visit 2000

PA/SI 2010-2014

Contaminants of Potential Concern: Metals

Media of Concern: Groundwater

Site Location: Grid H4, Building 2480 is in the southeastern portion of the installation, approximately 100 feet southeast of the intersection of Llewellyn and Wilson Avenues.

Site Description: Building 2480 (SWMU 71) has been used as a hospital since its construction in 1968. Hospital operations were downsized to those of a clinic in the early 1990s. Chemicals stored in flammable storage cabinets and on shelves during the SWMU study included acetic acid, acetone, alcohol, phenol, trichloric acid, silver nitrate, hydrochloric acid, fixer and developer, iodine, peroxides, and sodium chloride. Areas within the hospital that use chemicals include the pharmacy, laboratories, x-ray rooms, emergency rooms, operating rooms, dental labs, podiatry rooms, and orthopedic rooms.

Building 2480 routinely discharges waste from silver recovery units from photographic processing. Medical maintenance properly disposes of the chemicals from the silver recovery (BCM, 1996). Any other discharge would go to the sanitary sewer.

Previous Studies: Over the course of previous investigations at this AOI, 8 subsurface soil samples, and 1 groundwater sample were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic and chromium elevate the risk numbers above the site-specific action levels.



FGGM 37 (OU-21) – Kimbrough Army Hospital
0 50 100 200 Feet

Current Use: Medical Clinic

Current Status: A PA/SI is underway in order to "close" the current investigation of this AOI. The PA/SI recommendation is to install 1 groundwater monitoring well and analyze the groundwater sample for metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

Since the hospital is currently active, site closure will not be recommended until site usage changes.

2.1.11 OU-4

Regulatory Driver: CERCLA

Previous 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, 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 96: Building 2213
- FGGM 96: Building 2266
- FGGM 96: Furniture repair shop (Building 2276) (SWMU's 63 and 64)
- FGGM 96: Building 2287 (SWMU 68)
- FGGM 96: Paint storage shed Building 2288 (SWMU 69)
- Wash Rack 5
- Debris and Stain - 1975

Previous Studies: The precise location, history, and a summary of contamination of each site within OU-4 are presented in subsections 2.1.12.1 through 2.1.12.19.

Current Use: Administrative, storage, and commercial.

Current Status: RI is underway.

Cleanup/Exit Strategy: After characterization of the contamination, implementation of a remedy agreed upon by all interested parties will be conducted.

2.1.11.1 FGGM 33 (OU-19) – Battery Shop, Former Building 2283

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA..... 1991-1993
 SI 1991-1994
 IRA..... 1993-1994
 Comprehensive Site Assessment.....2000
 RI/FS 2002-2011
 Well Closure Report.....2003
 PA..... 2010-2012
 RI ongoing

Contaminants of Potential Concern: VOCs and metals

Media of Concern: Soil and groundwater

Site Location: Grid H5, Former Building 2283 was located in the southeast portion of the installation, approximately 500 feet west of the intersection of Morrison Street and Huber Road.

Site Description: Building 2283 was as a motor repair shop and storage facility (1941-1982) and a battery disposal facility (1982-1992) before being demolished in the mid-1990s.

From 1982 through 1985, battery acid was discharged directly to surface soil in a bermed area along the north wall of the former building (EA, 1994). An acid neutralization tank was installed in 1985.

In 1987, discharge of battery acid to the tank ended, but battery rinsing and cleaning operations continued in a sink in the northeast corner of the building; a drain pipe from the sink discharged to the surface soil outside the building.

Previous Studies: An interim removal action was completed in 1994 (EA, 1994). Over the course of previous investigations at this AOI, 59 surface soil samples, 67 subsurface soil samples, and 14 groundwater samples (plus 1 duplicate sample) were collected and submitted for laboratory analysis. A risk analysis was not performed on the chemical data because the data was pre-removal action.



FGGM 33 - Battery Shop Building 2283
 0 25 50 100 Feet

Current Use: Grass and tree covered

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes Former Building 2283.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.2 FGGM 45 (OU-22/OU-4) – Calibration Laboratory, Building 2220

Regulatory Driver: CERCLA

Previous Environmental Investigations

Sampling Visit 2000
 SI 2001
 PA 2010-2012
 RI ongoing

Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Soil

Site Location: Grid H5, Building 2220 is in the southeastern portion of the installation, approximately 150 feet east of the intersection of 3rd Street and Pepper Road.

Site Description: Building 2220 (SWMU 42) was constructed in the late 1950s or early 1960s and was used as a warehouse and troop training center. This site was used in the late 1960s as a missile repair shop, using solvents and producing solvent waste. Small amounts of cleaning solvent and gasoline were formerly stored in a shed outside the building. Two fuel oil underground storage tanks (USTs) were formerly located at the south side of the building; one was removed in 1992, and the other was removed and replaced in 1988 then removed in 1997. During the 1988 UST removal, corrosion holes were noted at the end of the tank. Building 2220 is also identified as FGGM 91, Former Missile Repair Shop groundwater.

Previous Studies: Over the course of previous investigations at this AOI, 4 surface soil samples, 6 subsurface soil samples, and 13 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



FGGM 45 - Building 2220 - Calibration Laboratory



Current Use: Administrative/Storage

Current Status: RI activities are currently underway as part of the OU-4 Investigation, which includes Building 2220.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.3 FGGM 47 (OU-4) – Post Laundry Facility, Building 2250

Regulatory Driver: CERCLA

Previous Environmental Investigations

Preliminary Soil Investigation 1989
Soil and Groundwater
Investigations 1990 and 1991
Quarterly Groundwater
Monitoring 1995-1998 and 2000
SWMU Study 1996
CSA 2000
RI ongoing

Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Soil, groundwater, and soil gas

Site Location: Grid H5, Building 2250 is approximately 400 feet northeast of the intersection of Rock Avenue and Huber Road.

Site Description: Building 2250 (SWMU 59 and 60) was constructed in 1941 and used as a laundry facility through 1991. Dry cleaning operations were introduced in the late 1960s. Trichloroethene (TCE), PCE, and carbon tetrachloride were used during dry cleaning operations. Laundry and dry cleaning operations were discontinued in 1991 and the facility was converted to a recycling center. This AOI is being investigated under OU-4.

Previous Studies: In 1989, a preliminary soil investigation identified PCE in soil in an area believed to be a former drum storage area north of the building. Surface water samples and sediment samples were collected from the retention pond near State Route 32 in 1998.



FGGM 47 - Post Laundry
0 25 50 100 Feet

Current Use: Building 2250 is currently used as a recycling center.

Current Status: An RI investigation is ongoing and levels of VOCs in perched groundwater are at parts per million (ppm) levels. Sub-slab vapor concentrations are above screening levels.

Cleanup/Exit Strategy: Actions will be evaluated to address groundwater and soil vapor concentrations in an RI/FS.

2.1.11.4 FGGM 49 (OU-23/OU-4) – DOL, Buildings 2286 and 2246

Regulatory Driver: CERCLA

Previous Environmental Investigations

Initial Delineation Report..... 2000

RI.....ongoing

Contaminants of Potential Concern: VOCs, SVOCs, PCBs/pesticides, herbicides, TPH-diesel-range organics (DRO), fuel oil, and metals

Media of Concern: Soil, groundwater, and soil gas

Site Location: Grid H5, Buildings 2286 is north of Morrison Street and Buildings 2246 is east of Huber Street.

Site Description: FGGM 49 includes Buildings 2286 and 2246. The soil and groundwater investigations and actions around Building 2286 are covered under FGGM 86. The soil and groundwater investigations and actions around Building 2246 are covered under FGGM 92. Both FGGM 86 and FGGM 92 are part of OU-4. The initial delineations of these two buildings were completed (Versar, Inc., 2000c and 2000b). Further actions are required for soil and groundwater and will be conducted under FGGM 86 (for Building 2286) and FGGM 92 (for Building 2246). FGGM 49 is part of OU-4.



FGGM 49 - DOL Buildings 2286 and 2246
0 125 250 500 Feet

Current Use: Industrial and administrative use.

Current Status: RI activities are currently underway as part of the OU-4 Investigation, which includes FGGM 49.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.5 FGGM 51 (OU-24/OU-4) – Spill Site, Former Building 2217

Regulatory Driver: CERCLA

Previous Environmental Investigations

MDE Inspection Report..... 1988
SWMU Study 1996
MDE Site Closeout..... 2000
PA..... 2010-2012
RI..... ongoing

Contaminants of Potential Concern: Soil

Media of Concern: Metals, polycyclic aromatic hydrocarbons (PAHs), and VOCs

Site Location: Grid H5, Spill Site Former Building 2217 is in the southeastern portion of the installation, west of the intersection of Chisholm Avenue and 2nd Street.

Site Description: Two heating oil USTs were near Building 2217. UST #2217A was installed 1 June 1970 and removed 14 July 1988; UST #2217B was a 1,000-gallon capacity steel UST installed 3 August 1988 and removed 11 December 1997 (FGGM, 2010; Horne, 1994). The first tank was removed due to corrosion; there were holes at the tank end (FGGM, 2010). Free product was observed, the saturated soils were removed, and the soil removal project stopped upon finding a good clay area (FGGM, 2010). Building 2217 was demolished in 2003. Petroleum contamination was encountered underneath the concrete slab. The soil was investigated. The slab and soil beneath it were removed on 24 April 2007 and post-excavation samples were collected.

Previous Studies: Over the course of previous investigations at this site, 6 surface soil samples and 17 subsurface soil samples were collected and submitted for laboratory analysis.

The soil chemicals of potential concern (COPCs) driving the risk are chromium, thallium, and 2-methylnaphthalene. Chromium and thallium appear to be consistent with background. The 2-methylnaphthalene risk is driven by a hot spot in Boring 3.

PCE was also noted in 2 toxicity characteristic leaching procedure (TCLP) samples, this indicates that some amount of PCE (a non-petroleum solvent) was also present in the soil.



FGGM 51 (OU-24) – Building 2217 (Spill Site)
0 25 50 100 Feet

Current Use: Grass field

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes Former Building 2217.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.6 FGGM 86 (OU-4) – Former Motor Pool Maintenance Facility

Regulatory Driver: CERCLA

Previous Environmental Investigations

- SWMU Study 1996
- RFA 3rd Phase..... 1999
- Site Investigations..... 2001 and 2002
- Investigation Data Report..... 2005
- RI ongoing

Contaminants of Potential Concern: VOCs, SVOCs, herbicides, and metals

Media of Concern: Groundwater and soil gas

Site Location: Grid H5, FGGM 86 is near the intersection of Wilson and Morrison Streets.

Site Description: FGGM 86 consists of Building 2286 and Former Buildings 2285 and 2290. Building 2286 (SWMUs 66 and 67) has been in use as a paint and body shop since the mid-1980s. Chemicals used in the building include paints, solvents, thinner, anti-freeze, acetylene, and argon gas cylinders.

Former Building 2285 (SWMU 65) was used for storage of paints and solvents until 1991. It was then mostly empty until 1995 when it was put into use by the 55th Signal for storage of cots, a lawnmower, and gasoline.

Former Building 2290 (SWMU 70) was used by Allied Trades for storage of paints, thinners, and enamels until 1988. It was empty from 1988 until it was also put to use by the 55th Signal for storage of equipment parts, wood, and metal. Buildings 2285 and 2290 were demolished in approximately 2000.

Previous Studies: Over the course of previous investigations at this site, 15 soil samples and 11 groundwater samples were collected and analyzed.

In an investigation of soils and groundwater at Building 2286 in 2004 (Versar, 2005b), lead was detected in soil at up to 892 milligram/ kilogram (mg/kg), and PCE and TCE were detected in groundwater at up to 2,960 microgram/liter (µg/L) and up to 342 µg/L, respectively.



FGGM 86 - Former Motor Pool
0 50 100 200 Feet

Current Use: The building is used for storage and administration.

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes FGGM 86.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.7 FGGM 88 (OU-4) – Former Tank Maintenance Facility Shop-1

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996
 Sampling Visit 1999
 Initial Delineation..... 2000
 RI ongoing

Contaminants of Potential Concern: VOCs, SVOCs, PCBs, and metals

Media of Concern: Soil and groundwater

Site Location: Grid H5, located approximately 150 feet southwest of the intersection of 1st Street and Chisholm Avenue.

Site Description: FGGM 88 includes Building 2207 (SWMU 37, DPW Storage and Receiving Warehouse), Building 2201 (DPW Storage and Supply Warehouse), Building 2206 (offices), Building 2204 (storage building), and Building 2200 (metal canopy for outdoor storage). Constructed in 1918, Building 2207 was used as a tank maintenance facility prior to 1973. Since at least the mid-1980s, it has been in use by the DPW as a receiving and storage facility.

Previous Studies: Over the course of previous investigations at this site, at least 17 soil samples and 11 groundwater samples were collected and analyzed. The following exceedances of screening criteria were noted:

Soil: Arsenic exceeded the residential RBC, the industrial RBC, and the background mean in 2 of 17 samples tested. TPH-DRO was detected at up to 650,000 µg/kg.

Groundwater: Dissolved arsenic exceeded its tap water RBC. TPH-DRO was detected at up to 120,000 µg/L. TPH-gasoline-range organics (GRO) was detected at up to 56,000 µg/L.



FGGM 88 - Former Tank Maintenance Facility Shop-1
 0 30 60 120 Feet

Current Use: FGGM 88 is currently used for receiving materials for distribution to other facilities (main floor) and storing supplies, such as filters, light bulbs, and pipe clamps (upper floor).

The grounds are also used for storage of construction materials, refrigerators, non-PCB-containing transformers, and fluorescent light bulbs.

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes FGGM 88.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.8 FGGM 89 (OU-4) – Former Tank Maintenance Facility Shop-2

Regulatory Driver: CERCLA

Previous Environmental Investigations

Sampling visits 1999, 2000, and 2001
 Delineation Report 2000
 SI 2001
 RI ongoing

Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Groundwater

Site Location: Grid H5, on 2nd and 3rd Streets between Pepper Road and Chisholm Avenue.

Site Description: FGGM 89 is part of OU-4 and comprises the DOL Electric Shop Former Building 2217 (SWMU 39) and the DPW storage yard. Building 2217 is in the southeast corner of the site. A former WR (SWMU 41) and a former oil/water separator (OWS) (SWMU 40) were in the northwest corner of the site. Constructed in 1918, Building 2217 was used as a tank maintenance facility until 1973. The associated WR was used to wash vehicles and construction equipment; wash water was discharged to the OWS and then to the sanitary sewer system. The WR and OWS were demolished and removed in 1999 or 2000.

Previous Studies: Over the course of previous investigations at this site, at least 32 soil samples and 30 groundwater samples were collected and analyzed. The following exceedances of screening criteria were noted:

Soil: Arsenic exceeded the residential RBC and the industrial RBC at 2 of 32 locations tested.
 Groundwater: Six metals (arsenic, beryllium, chromium, lead, mercury, and thallium) had concentrations that exceeded their maximum contaminate level (MCL) or tap water RBC value (or at-tap action level in the case of lead). Seven VOCs (benzene; naphthalene; n-propylbenzene; chlorobenzene; dichlorobenzene (DCB); 1,2,4-trimethylbenzene; and 1,3,5-trimethylbenzene) exceeded RBCs at 5 of 30 locations tested.



FGGM 89 - Former Tank Maintenance Facility Shop-2
 0 40 80 160 Feet

Current Use: Building 2217 is currently used for storage of military vehicles, equipment, and small motors. The asphalt and gravel yard is currently used for storage of electrical transformers (non-PCB), electrical cables, boilers, water heaters, dishwashers, motors, and other equipment and machinery.

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes FGGM 89.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.9 FGGM 90 (OU-4) – Former Tank Cleaning Supply Warehouse

Regulatory Driver: CERCLA

Previous Environmental Investigations

Sampling Visits 1999 and 2000
 SI 2000
 RI 2003
 RI ongoing

Contaminants of Potential Concern: VOCs, SVOCs, PAHs, herbicides, pesticides, TPH-DRO, and metals

Media of Concern: Soil, groundwater, and soil gas

Site Location: Grid H5, FGGM 90 comprises the DOL Storage Services and Supply Division Complex located in the northwest quadrant of the intersection of Pepper Road and Rock Avenue.

Site Description: The complex is in OU-4 and includes Buildings 2240 (SWMUs 45 and 46), 2241 (SWMUs 47 and 48), 2242 (SWMUs 49 and 50), 2243, 2247, 2248 (SWMUs 51 and 52), and 2249 (SWMUs 53 and 54). Building 2240 is a separate single-story brick structure. Buildings 2241, 2242, and 2243 are connected in sequence and are elevated on wooden piers. Buildings 2247, 2248, and 2249 are smaller, wooden garage-type structures located behind the larger buildings. Other features on the site include a propane storage pen (Building 2247A), a flammable gas storage pen (Building 2248A), an empty compressed gas storage pen north of Building 2249, and a former 1,000-gallon AST storing No. 2 fuel oil located behind Building 2242, was removed in 1995.

Previous Studies: Soil and groundwater samples were collected and analyzed for Buildings 2240, 2241, 2242, 2248, and 2249.



FGGM 90 - Former Tank Cleaning Supply Warehouse
 0 60 120 240 Feet

Current Use: Building 2240 has been used as a storage and supply facility since its construction in 1934, and currently is a receiving/transfer location for computer equipment and laundry/dry cleaning. Buildings 2241 and 2242 were constructed in 1918 and have always been used for receiving and short-term storage of supplies and materials before shipping. Buildings 2247, 2248, and 2249 are currently being used for furniture storage.

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes FGGM 90.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.10 FGGM 91 (OU-4) – Groundwater at Former Missile Repair Shop, Building 2220

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA/SI 1998-1999

Sampling Visits 1999 and 2000

SBCR 2001

RI.....ongoing

Contaminants of Potential Concern: VOCs, SVOCs, PCBs/pesticides, herbicides, TPH-DRO, fuel oil, and metals

Media of Concern: Soil, groundwater, and soil gas

Site Location: Grid H5, FGGM 91, the Former Missile Repair Shop is approximately 150 feet southeast of the intersection of Pepper Road and 3rd Street.

Site Description: Building 2220 (SWMU 42) is part of OU-4 and is currently used for an electronic maintenance and calibration shop, but in the 1960s it was used as a missile repair shop, warehouse, and troop training center. Building 2220 is designated as FGGM 45, and is discussed separately. The FGGM 45 designation is for the building, FGGM 91 is the groundwater at the site. Solvents, mineral spirits, cleaners, and lubricants were stored and used at the facility in the past. The site had two fuel oil USTs; one was removed in 1992, the other replaced in 1988 then removed in 1997. A 1-gallon spill of fuel oil reportedly occurred in 1993.

Previous Studies: Soil and groundwater samples were collected and analyzed for Building 2220.

Soil: 1 concentration of lead (6.1 mg/kg) exceeded its Soil Background Concentration Report (SBCR; USACE, 2001c) value (3.58 mg/kg). No other contaminants of concern were identified.

Groundwater: TPH-DRO was detected in groundwater samples at concentrations ranging from 160 µg/L to 1,700 µg/L. Several total metals were detected at elevated concentrations; however, this was attributed to turbid samples collected from temporary (undeveloped) well points. Dissolved arsenic, copper, iron, and manganese exceeded Tap Water RBCs. VOCs, SVOCs, PCBs, and pesticides.



Current Use: Administrative/Storage

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes FGGM 91.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.11 FGGM 92 (OU-4) – Former Heavy Gun Cleaning and Repair Shop

Regulatory Driver: CERCLA

Previous Environmental Investigations

Site Investigations 1999, 2000, and 2001

Delineation Report2005

RIongoing

Contaminants of Potential Concern: VOCs, SVOCs, PCBs/pesticides, herbicides, TPH-DRO, fuel oil, and metals

Media of Concern: Soil, groundwater, and soil gas

Site Location: Grid H5, south of the intersection of Huber and Pepper Roads.

Site Description: FGGM 92 is part of OU-4 and is currently the DOL Tactical and Support Vehicle/Heavy Equipment Maintenance Facility and includes Building 2246/2246D (SWMUs 55–58), Building 2253 (SWMUs 61–62), and two storage sheds (Buildings 2244 and 2245). Building 2246 has been used as a heavy gun repair shop from 1934 until the mid-1980s, and a military tank repair shop in the past. Since 1992, the Director of Community Activities has used the facility for storage and maintenance of grounds-keeping equipment and supplies. Building 2253 was constructed in 1934, and has been used for vehicle maintenance in the past. Prior to 1992, it was used by the DOL as a warehouse.

Building 2246 has been used as a heavy gun repair shop from 1934 until the mid-1980s, and a military tank repair shop in the past. Since 1992, the Director of Community Activities has used the facility for storage and maintenance of grounds-keeping equipment and supplies. Building 2253 was constructed in 1934, and has been used for vehicle maintenance in the past. Prior to 1992, it was used by the DOL as a warehouse.

FGGM 92 contains an 800-gallon used oil AST that serves as a collection point for used oil from vehicle maintenance, an out-of-service WR, and an out-of-service fuel pump.

Previous Studies Two investigations were conducted at the site of Building 2253 (CH2M HILL, 1999; Versar, 2001k).

Two investigations were conducted at the Building 2246 site (Versar, 1999ah and 2000g)

Soil and groundwater samples were collected and analyzed for both buildings.



FGGM 92 - Former Heavy Gun Cleaning and Repair Shop

0 60 120 240 Feet

Current Use: Industrial use.

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes FGGM 92. In addition, the MDE OCP is requesting analysis for LPH at Building 2253.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.12 FGGM 17 (OU-4) - Monitoring Wells 125d and 126d

Regulatory Driver: CERCLA

Previous Environmental Investigations

Site Investigation 2004
 Sampling Visits 2004, 2005, 2008, and 2009
 Work Plan 2009
 RI ongoing

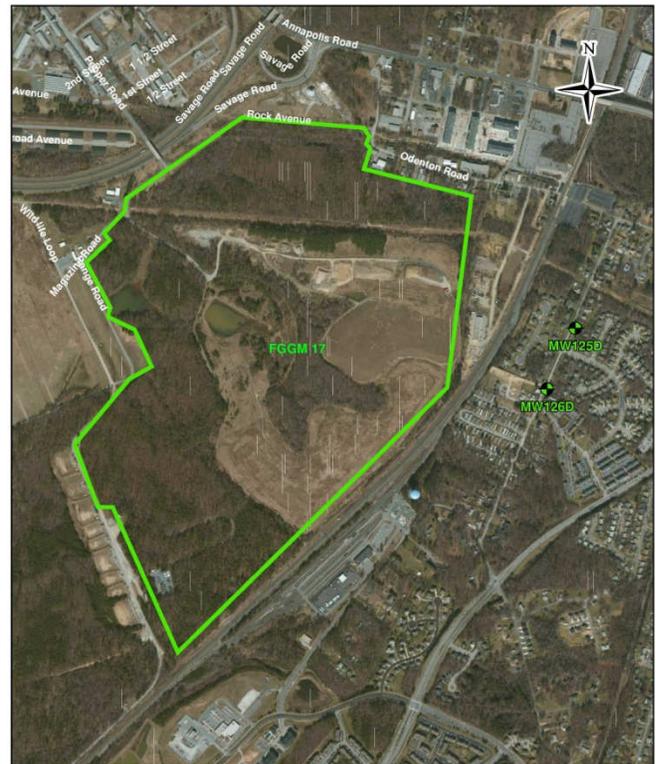
Contaminants of Potential Concern: PCE, carbon tetrachloride (CCl₄), and metals

Media of Concern: Groundwater

Site Location: Grid I6, two MW clusters (s-shallow and d-deep) 123s/125d and 124s/126d are located off post, east of the northern part of the CSL, at the intersection of North Patuxent and Dovetail Roads in Odenton, MD, in a residential area.

Site Description: MW-123s/125d and MW-124s/126d are part of OU-4 and were installed as part of the CSL RI. The RI determined that the CSL is not the source of contamination in the Lower Patapsco Aquifer. In March 2005, Anne Arundel County Health Department began an annual drinking water sampling program which included 13 residential drinking water wells downgradient from the CSL. Not all the same wells were sampled annually due to changes in home ownership and some homeowners elected not to participate in the program. The program continues and to date all samples collected have met primary EPA drinking water standards. Copper was detected above MCLs, lead was detected above its at-tap action level, but no VOC exceedances were detected in the wells tested by Anne Arundel County.

Previous Studies: MW-123s/125d and MW-124s/MW-126d were sampled in 2004, 2005, 2008, 2009, and 2012.



Current Use: Monitoring wells.

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes FGGM 17.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.13 FGGM 96 (OU-46/OU-4) - Painting and Sheet Metal Shop (SWMU 38), Former Building 2213

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study	1996
Historic Aerial Photograph Study	1996
Sampling Visit.....	2000
SI.....	2001
PA	2010-2012
RI.....	ongoing

Contaminants of Potential Concern: VOCs, SVOCs, TPH-DRO, TPH-GRO, and metals

Media of Concern: Groundwater

Site Location: Grid H5, Former Building 2213 was located in the southeastern portion of the installation, in the northeast quadrant of the intersection of Pepper Road and Rock Avenue. SWMU 38 is located within the outline of OU-4.

Site Description: Former Building 2213 is part of OU-4 and was identified as a potential SWMU in the 1996 SWMU study (BCM, 1996) because it was formerly used as a painting and sheet metal shop. Building 2213 had been a sheet metal and sign fabrication shop from the 1960s until it was demolished in the mid-2000s. Before its use as a sheet metal and sign shop, the building was used as administrative offices.

Building 2213 was used to store small quantities of paints, lubricants, cleaners, and mineral spirits. The building also formerly served as a drop-off point for un-used and waste oil-based and latex paints. The oil-based paints were stored as a hazardous waste in a hazardous waste locker located on the northern side of the building. Latex paints were bulked into a 55-gallon drum and processed as non-regulated waste. Two 550-gallon heating oil USTs, formerly located along the southeast exterior wall were removed in 1997.

Previous Studies: Over the course of previous investigations at this AOI, 4 surface soil samples (plus 1 duplicate), 11 subsurface soil samples (plus 2 duplicates), and 8 groundwater samples (plus 2 duplicates) were collected and submitted



for laboratory analysis. Based on a risk analysis of the analytical results, arsenic, cobalt, manganese, iron, and chromium elevate the risk numbers above the site-specific action levels.

Current Use: Grass and trees

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes Former Building 2213. In addition, since free product was observed at location SB-3, the MDE Oil Control Program (OCP) is requesting further analysis for liquid petroleum hydrocarbons (LPH).

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.14 FGGM 96 (OU-46/OU-4) - Former Building 2266

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996
SI 2002
PA 2010-2012
RI ongoing

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H5, in the southeastern portion of the installation, west of the intersection of Rock Avenue and Huber Road. Former Building 2266 falls within the geographical boundary of OU-4.

Site Description: Former Building 2266 is part of OU-4 and was identified as an AOI because the 2006 FGGM IAP had it listed in a line item as an AOI. No other information is available regarding past usage that would qualify this building as an environmental AOI.

Previous Studies: This AOI was not identified in the Solid Waste Management Unit study (BCM, 1996) or the EPA (1996) historic aerial photograph study of the installation. Past use of the building is unknown. No stains, stressed vegetation, debris, or solid waste were identified in this area. The 2006 FGGM IAP lists a 6 September 2002 SI Report for Building 2266. That report is not available for review. The 1952 land use map shows a spur of the railroad near Building 2266 and between Buildings 2271 and 2272. These buildings were probably used as warehouses.



Former Building 2266
0 25 50 100 Feet

Current Use: Grass covered field

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes Former Building 2266.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.15 FGGM 96 (OU-46/OU-4) - Furniture Repair Shop, Former Building 2276 (SWMUs 63 and 64)

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study	1996
Historic Aerial Photograph Study	1996
Sampling Visit.....	2000
SI.....	2001
PA	2010-2012
RI.....	ongoing

Contaminants of Potential Concern: VOCs and metals

Media of Concern: Soil and groundwater

Site Location: Grid G5 and H5, located in the southeastern portion of the installation, in the northeast corner of the intersection of Rock Avenue and Wilson Street. Former Building 2276 falls within the geographical boundary of OU-4.

Site Description: Building 2276 was constructed between 1910 and 1920 and used as a warehouse. Hazardous chemicals (paint thinners, adhesives, stains, and aerosols) were used and stored in small quantities at the facility. The building also contained a paint booth. The building was demolished in early 2012. Building 2276 is part of OU-4.

Previous Studies: Over the course of previous investigations at this site, 4 surface soil samples, 6 subsurface soil samples and 10 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, tetrachloroethene and some metals elevate the risk numbers above the site-specific action levels.



Building 2276 - Furniture Repair Shop
 0 25 50 100 Feet

Current Use: Administrative use

Current Status: RI activities are currently underway as part of the OU-4 Investigation, which includes Building 2276.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.16 FGGM 96 (OU-46/OU-4) - Former Building 2287 (SWMU 68)

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996
RFA 3rd Phase..... 1999
PA..... 2010-2012
RI..... ongoing

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H5, in the southeastern portion of the installation, approximately 550 feet from the northeast corner of the intersection of Morrison and Wilson Streets.

Site Description: Former Building 2287, NSA MP Equipment and Chemicals Storage Shed (SWMU 68), was constructed in 1941 and used as a vehicle maintenance shed and later as a carpentry shop and storage facility for airplane platforms associated with the DOL Allied Trades. In 1996, the NSA MP started storing equipment and small quantities of chemicals (lube oil, adhesives, and brake fluid) in the building. The building was demolished around 2000. Building 2287 is part of OU-4

Previous Studies: Over the course of previous investigations at this site, 6 subsurface soil samples and 2 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, no compounds elevate the groundwater or soil risk numbers above the site-specific action levels.



Building 2287 - NSA Motor Pool Storing Equipment and Chemicals



Current Use: Parking lot/grassy area.

Current Status: EPA concurred with the PA recommendation for NFA for this AOI.

Cleanup/Exit Strategy: This site has been approved by EPA for NFA.

2.1.11.17 FGGM 96 (OU-46/OU-4) - Paint Storage Shed, Former Building 2288 (SWMU 69)

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996

Historic Aerial Photograph Study 1996

RFA 3rd Phase 1999

PA 2010-2012

RI.....ongoing

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid G5 and H5, in the southeastern portion of the installation, approximately 300 feet northeast of the intersection at Rock Avenue and Wilson Street.

Site Description: Former Building 2288 was a small, concrete block storage building for Building 2276. The building was reportedly used in the past for storage of paints, thinners, and gasoline. Disposal practices in the building were unknown.

Previous Studies: Over the course of previous investigations at this site, 3 surface soil samples, 4 subsurface soil samples, and 2 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic, mercury, lead and chromium elevate the risk numbers above the site-specific action levels.



Building 2288 -- Paint Storage Shed
0 30 60 120 Feet

Current Use: Grass covered

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes Building 2288.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.18 FGGM 96 (OU-46/OU-4) - Wash Rack 5

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996

PA..... 2010-2012

RI..... ongoing

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO.

Media of Concern: Soil and groundwater

Site Location: Grid H5, Former WR-5 was located in the south-east portion of the installation, approximately 650 feet north east of the Morrison Street and Wilson Street intersection.

Site Description: WR-5 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed WR-5 in the southeastern portion of the installation. The 1996 SWMU study identifies a WR-5 associated with Building 940 located in the north-eastern portion of the installation. The circa 1952 land use map (Anon., 1952) did not identify a WR in the vicinity of Building 940. The naming of WRs in 1952 and 1996 may have been different. The WR associated with Building 940 will be addressed under separate cover in the report of Building 940. AOI WR-5 falls within the geographical boundary of OU-4 and is part of OU-4.

Previous Studies: Over the course of previous investigations, 3 subsurface soil samples and 1 groundwater sample were collected. Based on a risk analysis of the analytical results, arsenic, iron, cobalt, vanadium, aluminum, chloroform, and chromium elevate the risk numbers above the site-specific action levels (URS Group, Inc., 2011n).



Wash Rack 5
0 25 50 100 Feet

Current Use: Parking lot.

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes WR-5.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.11.19 FGGM 96 (OU-46/OU-4) - Debris and Stain – 1975

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996

PA..... 2010-2012

RI..... ongoing

Contaminants of Potential Concern: VOCs, SVOCs, metals

Media of Concern: Soil and groundwater

Site Location: Grid H5, Debris and Stain - 1975 AOI is located in the southeast portion of the installation, south of Morrison Street, east of Wilson Street, and west of Huber Road. Debris and Stain - 1975 falls within the geographical boundary of OU-4.

Site Description: The EPA (1996) study described this AOI in the 1975 aerial photograph as: “debris has been deposited in this area and a dark stain is visible adjacent to a small building. The stain is aligned along a drainage pathway that leads from the building northeast into the nearby woods.” The 1975 aerial photograph (EPA, 1996) does not have the stain labeled. The write-up for the 1988 aerial photograph (EPA, 1996) says that staining is still present along the drainage way and solid waste is present in an accumulation of debris, although these feature are not labeled on the photograph itself. The AOI is not labeled in the 1995 aerial photograph (EPA, 1996) and no debris or stains are visible.

Previous Studies: Over the course of previous investigations near this AOI, 15 subsurface soil samples (plus 1 duplicate sample) and 2 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic, cobalt, iron, manganese, and chromium elevate the risk numbers above the site-specific action levels (URS Group, Inc., 2011n).



Debris and Stain -- 1975
0 50 100 200 Feet

Current Use: Grass field and parking lot.

Current Status: RI activities are currently underway as part of the OU-4 investigation, which includes Debris and Stain - 1975.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, a decision document will be prepared, and a remedy agreed upon by all interested parties will be implemented.

2.1.12 FGGM 70 (OU-25) – Indoor Range, Former Building 6513 (SWMU 150)

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996
 Historic Aerial Photograph Study 1996
 Sampling Visit..... 2000
 SI 2001
 PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Soil and groundwater

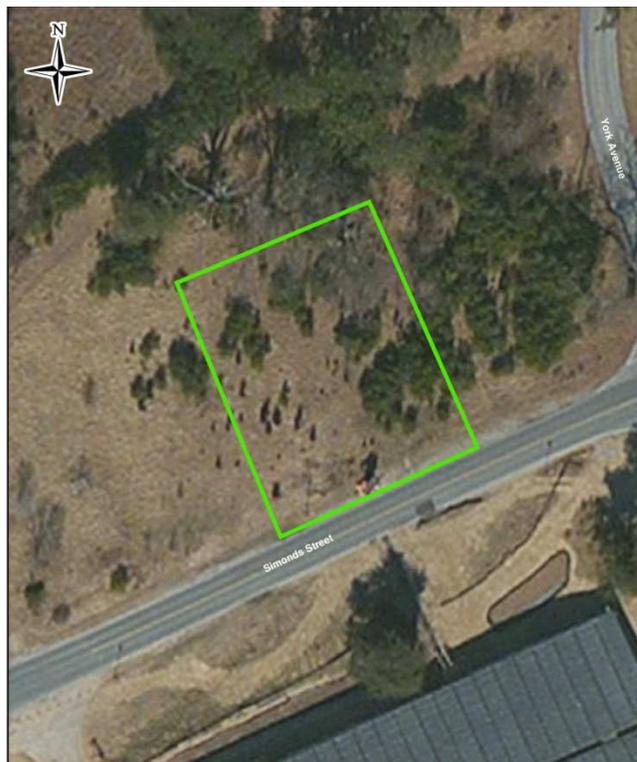
Site Location: Grid F4, Former Building 6513 was located in the southern portion of the installation, west of the intersection of York Avenue and Simonds Street.

Site Description: Building 6513 was identified as a past SWMU in the 1996 SWMU study (BCM, 1996) because it was formerly used as an indoor shooting range and disposal practices for the impact range were unknown. There were no spills or reported releases identified during the SWMU study (BCM, 1996). Building 6513 was demolished in 2001 after standing vacant (but locked) for several years. A 550-gallon heating oil UST was located outside the southeast corner of Building 6513. The UST was removed in January of 1997 (Versar, 2003).

Former Building 6513 was demolished in 2001.

Previous Studies: This AOI was not identified in the EPA (1996) review of historic aerial photographs; no stains, stressed vegetation, standing liquid, or other environmental concerns were identified at this location.

Over the course of previous investigations at this AOI, 4 surface soil samples (plus 1 duplicate sample), 5 subsurface soil samples, and 5 groundwater samples (plus 1 duplicate sample) were collected and analyzed. Based on a risk analysis of the analytical results, 1,2,4-trimethylbenzene and naphthalene elevate the risk numbers above the site-specific action levels.



FGGM 70 (OU-25) -- Indoor Range, Building 6513
 0 25 50 100 Feet

Current Use: Grass field

Current Status: A PA/SI is underway with a recommendation to collect 3 surface soil samples to be analyzed for metals, install 1 groundwater monitoring well, and collect and analyze the groundwater sample for VOCs and SVOCs.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.13 FGGM 71 (OU-26) – EX Indoor Range, Former Building 6522 (SWMUs 151-152)

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996
 Historic Aerial Photograph Study..... 1996
 Sampling Visits 2000
 PA/SI 2010-2014

Contaminants of Potential Concern: Metals

Media of Concern: Soil and groundwater

Site Location: Grid F4, Former Building 6522 is located in the southern portion of the installation, 100 feet northwest of the intersection of York Avenue and Simonds Street.

Site Description: Building 6522 (SWMUs 151-152) was identified as a past SWMU in the 1996 SWMU study (BCM, 1996) because it was formerly used as an indoor small arms target range and disposal practices for the impact range were unknown. There were no spills or reported releases identified by BCM during the SWMU study (BCM, 1996). Building 6522 was demolished in the late 1990s. A 550-gallon heating oil UST was located outside the eastern wall of Building 6522. The UST was removed in August of 1995 (Versar, 2003).

Previous Studies: This AOI was not identified in the EPA (1996) review of historic aerial photographs; no stains, stressed vegetation, standing liquid, or other environmental concerns were identified at this location.

Over the course of previous investigations at this site; 4 subsurface soil samples and 3 groundwater samples were collected and analyzed. Based on a risk analysis of the analytical results, mercury, arsenic, and chromium elevate the risk numbers above the site-specific action levels.



FGGM 71 (OU-26) -- EX Indoor Range, Building 6522
 0 25 50 100 Feet

Current Use: Grass and trees

Current Status: A PA/SI is underway with a recommendation to collect 3 surface soil samples, install 1 groundwater monitoring well, and collect and analyze the soil and groundwater samples for metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.14 FGM 74 (OU-29) – Architect of the Capitol (USAOC)

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study.....1996
 Phase I site assessment.....1994
 RI ongoing

Contaminants of Potential Concern: VOCs, SVOCs, PCBs, petroleum hydrocarbons, pesticides, and metals

Media of Concern: Groundwater, surface water, soil, and soil gas

Site Location: Grid G5/H5, FGM 74 is the USAOC parcel along the south border of Fort Meade. It is situated between State Route 32 and Rock Avenue and between Remount and Pepper Roads.

Site Description: This area was authorized by Congressional action for transfer in 1993 from the Department of the Army to the USAOC to accommodate long term storage and service needs of the Library of Congress (LOC) and other Legislative Branch agencies.

Contamination on the USAOC parcel is due to past Army activities. This area was evaluated in 1994 for feasibility of development for the needs of the Legislative Branch agencies. At the time of the study, the area contained a temporary warehouse area, buildings formerly used as the Fort commissary, and buildings associated with the Transportation Motor Pool (TMP). A stream (Rogue Harbor Branch) flows south through the site, and wetlands are present in the vicinity of the stream.

Previous Studies: A Phase I site assessment was performed as part of the 1994 development study (RK&K, 1994). The assessment identified VOCs, pesticides, PCBs, and metals contamination in the DRMO area. The assessment also identified petroleum hydrocarbon contamination at the TMP and in the vicinity of several USTs in the warehouse area. Based on the results of the 1994 assessment, a Phase II investigation was recommended.



Current Use: Currently, much of the improved areas of the USAOC parcel are used for storing documents. Approximately 10 acres of the western extreme part of the USAOC property are operated by the Army as a TMP.

Current Status: An RI is being finalized following completion of a supplemental lead delineation soil investigation, updated human health risk assessment (HHRA), and evaluation of background concentrations of inorganics in groundwater. The results of the HHRA and the background study for inorganics in groundwater, both still under regulatory review, indicate no active remedial action is necessary at AOC.

Cleanup/Exit Strategy: An FS and/or PP will be developed as necessary following approval of a Final RI for AOC.

2.1.15 FGGM 83 (OU-1) – Former Trap and Skeet Range

Regulatory Driver: CERCLA

Previous Environmental Investigations

EBS	1998
SRS and Risk Assessment ..	1999 and 2008
CSA	1999-2000
Corrective Action Plan.....	2002
SI	2004
Supplemental Testing Proposal	2007
HHRA	2009
RI	2010

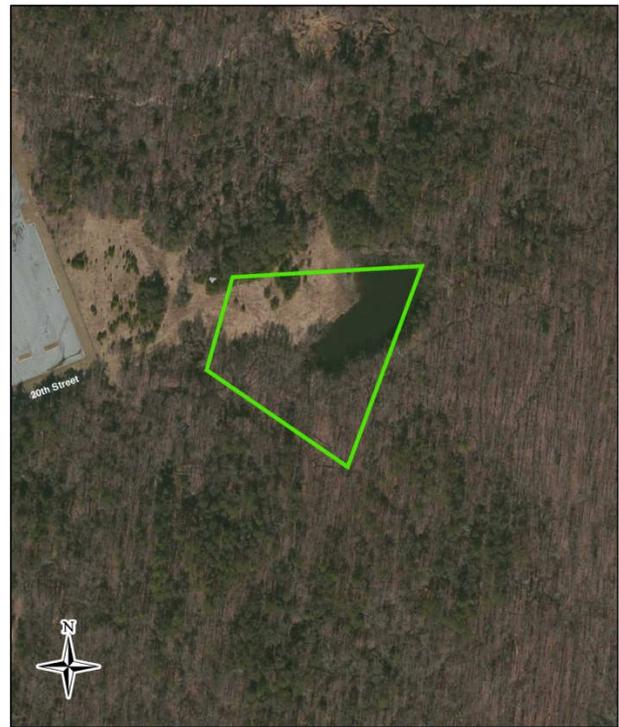
Contaminants of Potential Concern: PAHs and metals

Media of Concern: Sediment, soil, and surface water

Site Location: Grid H2, at the eastern extent of 20th Street, approximately 1,400 feet east of the intersection with State Route 175.

Site Description: FGGM 83 is a former recreational trap and skeet range used by Fort Meade from the mid-1970s through 1994. The site contains a small concrete-block storage shed, grass-covered areas, a gravel access road, and a manmade pond (Kemron, 2008I). The former range consisted of a firing line, skeet houses, and a manmade pond. Two former buildings (Buildings 2046 and 2047) were located near the western site boundary. Both buildings were demolished in 2001. Building 2046 was formerly used by Fort Meade for equipment storage during operation of the trap and skeet range. Building 2047 was identified in 1996 as SWMUs 153 and 154 because disposal practices for the range and other recreation sources were unknown.

Previous Studies: Over the course of previous investigations at this site, 49 shallow soil samples, sediment at 10 locations, surface water at 8 locations, and groundwater at 4 locations were collected and analyzed. In 2004, over 100 samples were collected from surface soil and shallow subsurface soil. In addition, 10 sediment samples and 7 surface water samples were collected and analyzed. Additional pond sediment samples were collected in 2010.



FGGM 83 - Trap and Skeet Range
0 100 200 400 Feet

Current Use: Vacant and tree covered

Current Status: The Army’s contractor completed additional site sampling and analysis in 2010, and submitted an RI for EPA and MDE review in December 2010. Regulatory comments were received in March 2011. Responses are under review by EPA and MDE, and a revised RI Report will be submitted for approval following resolution of the comments.

Cleanup/Exit Strategy: Future work includes final resolution of the EPA and MDE comments on the RI Report, preparing a Final RI Report and preparing an FS.

2.1.16 FGGM 87 (OU-3) – Former Nike Control Site

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study	1996
Site Investigation	2000
Delineation Report	2000
CEMP	2005
RI/FS	2008
Final Screening Level Ecological RA ...	2009
Final Addendum to SWP	2010

Contaminants of Potential Concern: VOCs, SVOCs, PAHs, TCE, bis (2-ethylhexyl) phthalate, and metals

Media of Concern: Soil, groundwater, and indoor air

Site Location: Grid H2, FGGM 87 is the Directorate of Office Management Complex located on Annapolis Road, approximately 200 feet south of the intersection of 20th Street and Annapolis Road.

Site Description: The site consists of four buildings that supported the former Nike missile fire control site from 1955 to 1972.

- Existing Buildings 1976 and 1978 are one-story, concrete block, warehouse type structures, connected to each other by a narrow hallway.
- Building 1978 (SWMU 24) provided storage of small quantities of hazardous materials.
- Building 1977 (SWMU 23) provided storage for hazardous materials including paints, gasoline, diesel fuel, and adhesives.
- Building 1974 (SWMU 145), formerly located east of Building 1976, was a generator building prior to its demolition sometime between mid-1996 and early 1999.

Previous Studies: Over the course of previous investigations at this site, soil and groundwater samples were collected and analyzed. An RI/FS was submitted in January 2008. Regulatory comments were received in November 2008 and April 2009. Additional soil and groundwater samples were collected in a supplemental RI field effort in 2009. Based on additional EPA comments, sediment sampling and analysis was conducted adjacent to the site in 2010.



FGGM 87 - Former Nike Control Site
0 100 200 400 Feet

Current use: Building 1976 (SWMU 22) is used as a supply warehouse to store electronic equipment and computers. Building 1978 (SWMU 24) provides administrative support. Building 1977 is used for metal storage.

Current Status: A Revised RI Report was submitted for EPA and MDE review in May 2011. MDE provided a No Further Comment letter on the RI report in June 2011. EPA provided additional comments in August 2011. The Army's contractor is preparing responses to all EPA comments and a revision to the RI Report.

Cleanup/Exit Strategy: Future work includes resolution of EPA's comments on the Draft Final RI Report, and development of a Revised FS.

2.1.17 FGGM 93 (OU-36) – Manor View Dump

Regulatory Driver: CERCLA

Previous Environmental Investigations

EBS.....2002
 PA/SI.....2003
 RI/FS.....2003-2012
 IRA.....2005-2012
 NTCRA.....2011-2012
 RA(C).....2007-2008
 RA(O).....2008-2023

Contaminants of Potential Concern: Metals and PAHs. Methane presents a safety hazard.

Media of Concern: Groundwater, soil, and soil gas

Site Location: Grid G3, near the intersection of MacArthur Road and 2nd Corps Boulevard.

Site Description: The boundaries of the site include a group of residential housing units to the north (Phelps Avenue), 2nd Corps Boulevard to the south, Hayden Drive to the west, and MacArthur Road to the east. The land developed surrounding the dump site includes the Potomac Place neighborhood and Manor View Elementary School. FGGM 93 was discovered in 2003 while moving earth for the housing privatization initiative at Fort Meade. Municipal waste from the 1940s (based on recovered, dated materials) was uncovered.

Previous Studies: Soil, groundwater, sediment, surface water, ambient/indoor air, and soil gas data were collected and analyzed.

The area of buried waste was temporarily fenced with barricade safety fencing and then replaced with chain link fence when the landfill gas migration control system was installed in August 2005 (Plexus, 2008b). A passive vent trench was installed and later upgraded to a soil vapor extraction system with a blower to enhance vapor capture (Plexus, 2006).



FGGM 93 - Manor View Dump
 0 60 120 240 Feet

Current Use: Grass field

Current Status: The extraction system is operated continuously. The residents of Hayden Drive and Phelps Avenue in the Potomac Place Neighborhood were relocated in December 2005, and the houses remain vacant. A NTCRA to remove roughly 12,000 tons of methane generating waste is underway. The NTCRA will be complete in Summer 2012.

Cleanup/Exit Strategy: Following the NTCRA an FS will be re-submitted to evaluate the remaining issues.

2.1.18 FGGM 95 (OU-45) – Former Landfill Sites

2.1.18.1 FGGM 95 (OU-45) – Possible Dump Site A – 1957

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996

Geophysical Investigation2004

PA/SI2010-2014

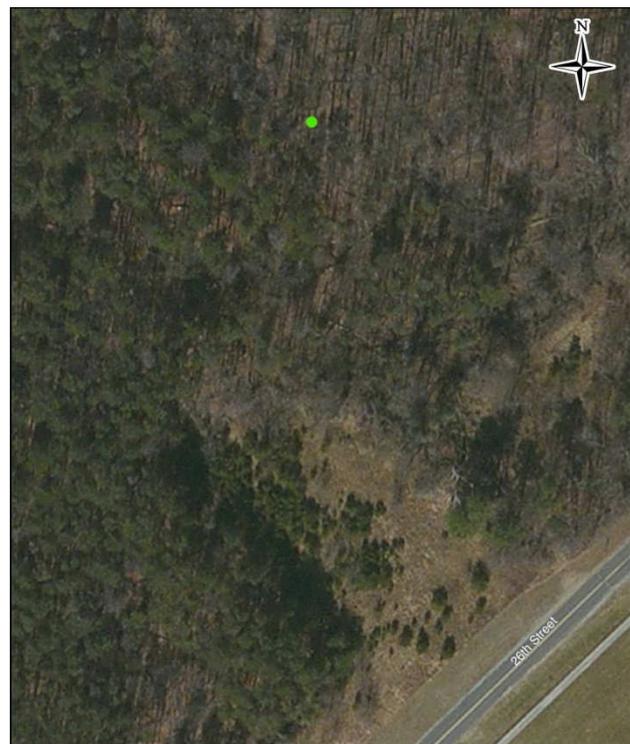
Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid G1, Possible Dump Site A was located near the northern border of the installation, 1,000 feet west of the Fort Meade Middle School.

Site Description: Possible Dump Site A – 1957 was identified as an AOI because the EPA (1996) study of the installation listed “possible solid waste” at this location during an analysis of a 1957 aerial photograph. No activity was visible at this AOI in subsequent aerial photographs. The EPA (1996) study did not identify stained soils or stressed vegetation in this area in any of the historic aerial photographs.

Previous Studies: A geophysical investigation of Possible Dump Site A - 1957 provided little evidence that the AOI contains metallic or conductive buried waste or disturbed soil. A magnetic anomaly on the eastern perimeter of the geophysical survey was further investigated with ground penetrating radar (GPR), which “*showed a well-developed soil column with no anomalies, indicating that soil at this site is undisturbed.*” No buried drums were apparent in the soil column and there doesn’t appear to be much indication that something is buried here (Versar, 2004).



Current Use: Wooded

Current Status: The current PA/SI recommends a test pit to investigate a geophysical anomaly and potential collection of a soil sample.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.18.2 FGGM 95 (OU-45) – Possible Dump Site B – 1957

Regulatory Driver: CERCLA

Previous Environmental Investigations
 Historic Aerial Photograph Study 1996
 Geophysical Investigation 2004
 PA/SI 2007
 PA/SI 2010-2014

Contaminants of Potential Concern: Metals, and dioxins

Media of Concern: Soil and groundwater

Site Location: Grid F2, in the northern portion of the installation, 200 feet north of Clark Road and 700 feet west of the Clark Road/ Rockenbach Road intersection.

Site Description: Possible Dump Site B - 1957 was classified as a “solid waste/ dump” by EPA during an analysis of a 1957 aerial photograph. The solid waste was no longer present in the 1963 aerial photograph (EPA, 1996). Bricks, steel pipes, and other construction debris were found at this AOI, but no drums were observed.

Previous Studies: A geophysical investigation (Versar, 2004a) revealed two areas of elevated terrain conductivity and numerous significant metal anomalies located throughout the AOI. The GPR profiles indicated disturbed soil to a depth of at least 5 feet.

The 2007 PA/SI included the excavation of 6 test pits and 4 direct push samples. Nine subsurface soil samples and 2 groundwater samples were collected and analyzed. Fill material approximately 1.5 feet thick and consisting of household trash and cinders was encountered in 2 of the direct push borings.

Based on a risk analysis of the analytical results, iron, cobalt, arsenic and chromium elevate the risk numbers above the site-specific action levels.



Current Use: Grass covered area surrounded by trees. The cleared area is littered with numerous piles of soil and debris.

Current Status: A PA/SI is underway with a recommendation to collect 1 subsurface sample for dioxins analysis, install 2 monitoring wells, and collect groundwater samples for metals analysis.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.18.3 FGGM 95 (OU-45) – Possible Dump Site E - 1957

Regulatory Driver: CERCLA

Previous Environmental Investigations

- Historic Aerial Photograph Study 1996
- Geophysical Survey 2004
- PA/SI 2007
- PA/SI 2010-2014

Contaminants of Potential Concern: Metals and dioxins

Media of Concern: Groundwater, sediment, and soil

Site Location: Grid F2, Possible Dump Site E-1957 was located in the northern portion of the installation, west of the intersection of Rockenbach Road and Cooper Avenue.

Site Description: Possible Dump Site E-1957 was identified as an AOI because the EPA (1996) historic aerial photographic study of the installation listed “burning waste” at this location during an analysis of a 1957 aerial photograph. The EPA (1996) study did not identify stained soils or stressed vegetation in this area in any of the historic aerial photographs.

Previous Studies: A geophysical investigation of Site 1957E showed erratic, lower intensity signals, nothing consistent enough to signify extensive buried material (Versar, 2004). During the geophysical investigation, rusted 55-gallon drums, tires, and construction debris were found within a stream that runs through this AOI. Several groundwater seeps were noted along the stream’s southern bank.

Over the course of previous investigations at this AOI, 5 subsurface soil samples, 4 groundwater samples, 3 sediment samples, and 3 surface water samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, cobalt, manganese, iron, arsenic, and chromium elevate the risk numbers above the site-specific action levels.



Possible Dump Site E - 1957
0 50 100 200 Feet

Current Use: Forested

Current Status: A PA/SI is underway with a recommendation to collect 1 soil sample and analyze for dioxins, collect 1 sediment and 1 surface water sample and analyze both for metals, install 1 groundwater monitoring well and analyze the groundwater sample for metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.18.4 FGGM 95 (OU-45) – Possible Dump Site G – 1957

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study1996
Geophysical Survey2004
PA/SI.....2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Soil

Site Location: Grid E5, in the southwest portion of the installation, just southwest of the pumping station where the Little Patuxent River crosses Maryland Route 198.

Site Description: Possible Dump Site G-1957 was identified as an AOI because the EPA (1996) study of the installation listed “possible dump” at this AOI during an analysis of a 1957 aerial photograph. In an analysis of a 1963 aerial photograph, the EPA labeled the AOI as a “re-vegetated dump site.”

Previous Studies: A geophysical investigation of Possible Dump Site G - 1957 provided little evidence that the AOI contains metallic or conductive buried waste. There is little geophysical evidence to suggest that this AOI is a former dump or landfill (Versar, 2004).



Possible Dump Site G - 1957
0 30 60 120 Feet

Current Use: Trees and grass

Current Status: A PA/SI is underway with a recommendation to collect 4 subsurface soil samples and analyze for VOCs, SVOCs, and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.18.5 FGGM 95 (OU-45) – Possible Dump Sites – 1970

Regulatory Driver: CERCLA

Previous Environmental Investigations
 Historic Aerial Photograph Study 1996
 PA/SI 2010-2014

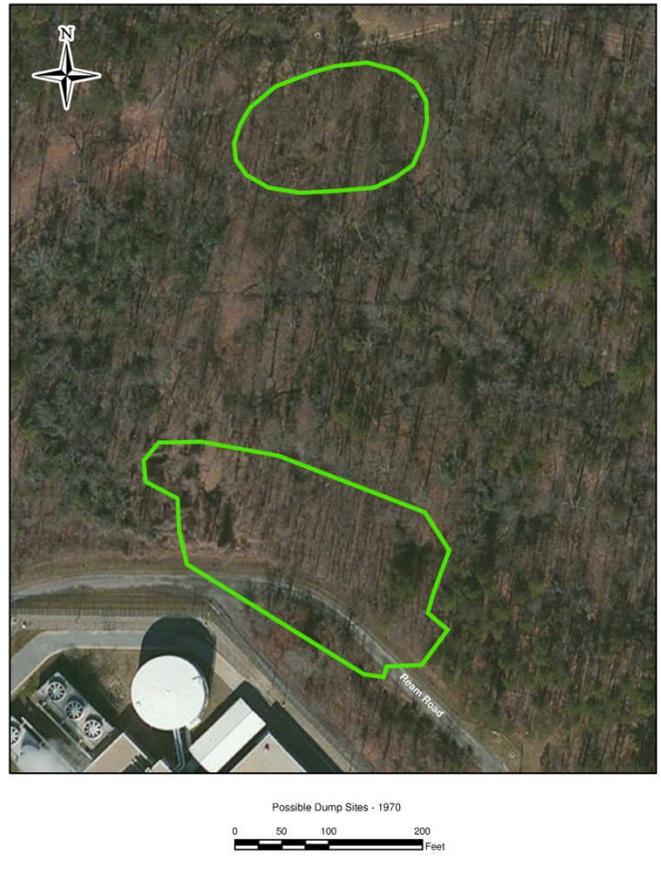
Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid E2, Possible Dump Sites-1970 was located in the northwest portion of the installation, east of the Baltimore-Washington Parkway.

Site Description: Possible Dump Sites – 1970 was identified as an AOI because the EPA (1996) historic aerial photographic study of the installation listed “Possible Dump Location” at this location during an analysis of a 1970 aerial photograph. The EPA (1996) study did not identify stained soils or stressed vegetation in this area in any of the historic aerial photographs.

Previous Studies: There has been no previous sampling or geophysical investigations at this AOI. Possible Dump Site 1970 has a long history of probable housing and farming. Agricultural activity may have been mistaken for dumping in the February 1970 aerial.



Current Use: Wooded

Current Status: A PA/SI is underway with a recommendation to excavate test pits and collect up to 10 subsurface soil samples and analyze for VOCs, SVOCs, metals, pesticides, herbicides, TPH-GRO, TPH-DRO, and PCBs.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.18.6 FGGM 95 (OU-45) – Site M - Parcel 3 (SWMUs 131-137)

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study.....	1996
SWMU Study	1996
EBS	2004
Geophysical Survey	2004
PA/SI	2007
PA/SI	2010-2012

Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Soil and groundwater

Site Location: Grid F3, Site M Parcel 3 is within the golf course complex, west of Zimborski Ave.

Site Description: Former Building 8880 (SWMU 131/132), constructed in 1949, was a storage area and a pesticide mixing area from 1955 to the late 1970s. It was demolished prior to 2005. Building 8860 (SWMU 133), constructed in 1949, is used for topsoil and chemical storage. The pump house is in the eastern half of the building with a well which distributed treated effluent water from the sanitary sewer to the sprinkler system for the former golf course.

Buildings 8870 (SWMU 134) and 8890A (SWMU 136) are used for storage. Building 8890 (SWMU 135) is a mechanic shop and storage area. Building 8891 (SWMU 137) is a storage building/maintenance area. Building 8881 is a storage/maintenance building. Building 21 is a metal storage locker that is used to store hazardous waste awaiting disposal. There is also a storage shed/rollaway (no building number) located north of Building 8890 that is used to store old tires and a lawnmower. Four ASTs and 1 UST were associated with the maintenance buildings.

Previous Studies: Over the course of previous investigations at this site, 8 surface soil samples, 35 subsurface soil samples, and 10 groundwater samples were collected and analyzed. Based on a risk analysis of the analytical results, arsenic, benzo(a)pyrene, mercury, heptachlor epoxide, and 1,1,2,2, tetrachloroethane elevate the risk numbers above the site-specific action levels.



Site M - Parcel 3
0 40 80 160 Feet

Current Use: Golf course maintenance.

Current Status: The PA/SI is complete, 1 subsurface soil sample was collected and analyzed for SVOCs and metals; 2 groundwater monitoring wells were installed and samples were collected and analyzed for VOCs.

Cleanup/Exit Strategy: This AOI requires NFA pending an Environmental Site Assessment after maintenance operations cease. Future construction is pending for this location.

2.1.18.7 FGGM 95 (OU-45) – Site M - Parcel 8

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study1996
 EBS.....2004
 PA/SI.....2007
 PA/SI.....2010-2014

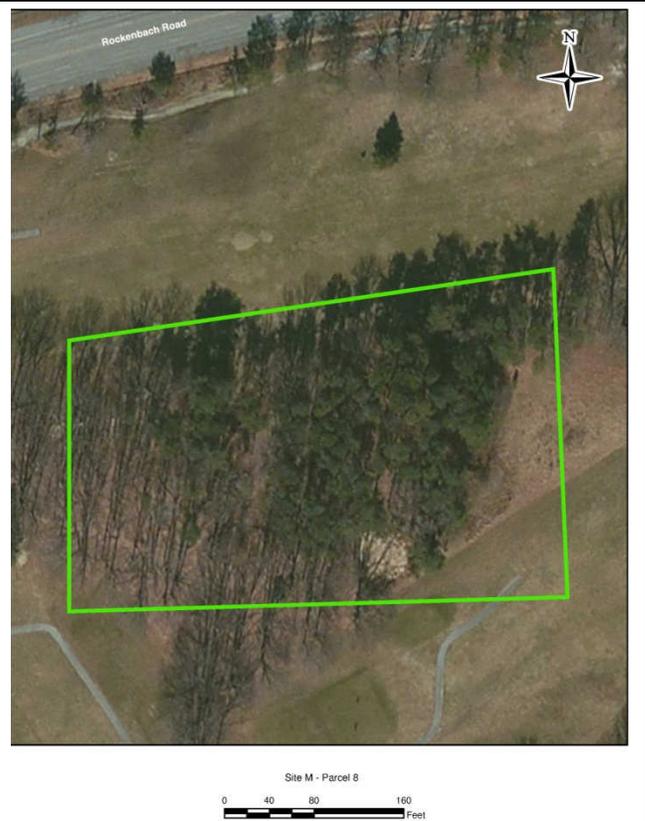
Contaminants of Potential Concern: Metals

Media of Concern: Soil and groundwater

Site Location: Grid F3, located in the 8800 Block, 500 feet southeast of the intersection of Rockenbach and 29th Division Roads.

Site Description: This location was identified in the EBS because a possible dump was identified at this location during a review of a 1938 aerial photograph (Berger EA, 2004).

Previous Studies: Over the course of previous investigations at this site, 1 surface soil sample, 6 subsurface soil samples, and 2 groundwater samples (1 total metals and 1 dissolved metals) were collected and analyzed at this site. Based on a risk analysis of the analytical results, antimony, arsenic, cobalt, nickel, and iron elevate the risk numbers above the site-specific action levels. Lead was detected above its MCL.



Current Use: Trees

Current Status: The PA/SI is complete, 5 surface soil samples were collected and analyzed for metals; 1 groundwater monitoring well was installed and 1 groundwater sample was collected and analyze for metals. Elevated lead in soil was detected.

Cleanup/Exit Strategy: An Enhanced Site Investigation is planned for FY2012 that will address the elevated lead in soils at this site. Future construction is pending for this location.

2.1.18.8 FGGM 95 (OU-45) – Inactive Landfill 4 (IAL4)

Regulatory Driver: CERCLA

Previous Environmental Investigations

SI 1992

Sampling Visit..... 1992

Historic Aerial Photograph Study 1996

RI 1998

PA/SI 2010-2014

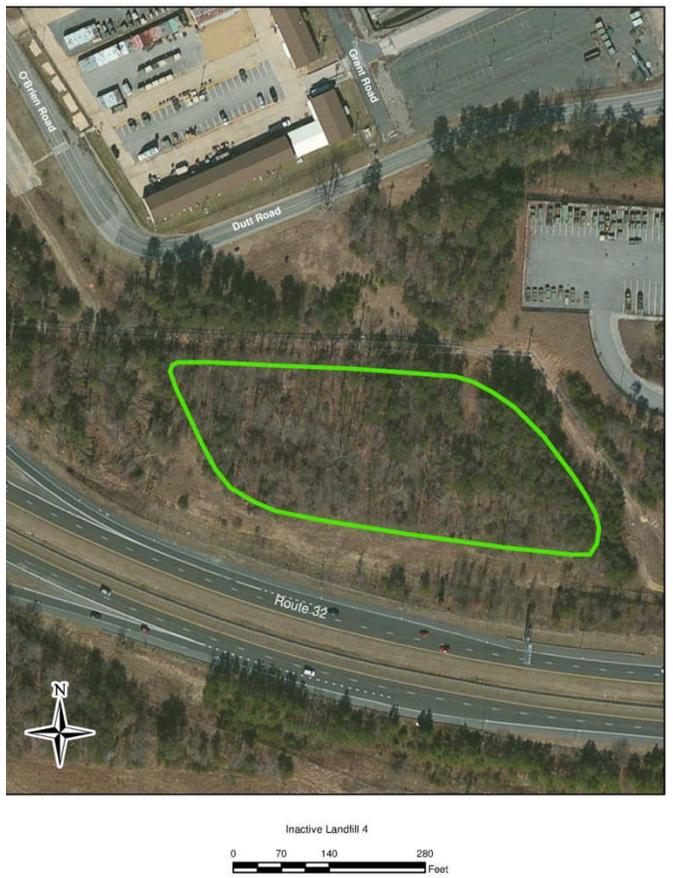
Contaminants of Potential Concern: VOCs, SVOCs, pesticides, PCBs, and metals

Media of Concern: Groundwater and sediment

Site Location: Grid F5, in the southwestern portion of the installation, north and adjacent to State Route 32 along the southwestern border of the installation.

Site Description: IAL4 is approximately 2 acres in size. Historic aerial photographs indicate that the AOI was active from the 1950s to the 1970s as a rubble disposal area.

Previous Studies: Although IAL4 is located within current installation boundaries, it was initially characterized during a Site Inspection Study for the BRAC parcel (EA, 1992). Over the course of previous investigations at this AOI, 2 sediment samples (plus 1 duplicate sediment sample) and nine groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



Current Use: Wooded area

Current Status: The current PA/SI recommends characterization of the landfill.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.18.9 FGGM 95 (OU-45) – Pre-WWII Laundry

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

RI 2007-2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H5, the Pre-WWII Laundry Facility was located in the southern portion of the installation, on the northern boundary of the USAOC parcel.

Site Description: The Pre-WWII Laundry Facility was identified as an AOI because the 1934 Special Military Map (Camp Meade, 1934) listed a laundry facility at this location in the southern portion of the installation. The laundry was also identified on a circa 1917 map of Camp Meade (Maryland Geological Survey [MGS], 1917) and a 1923 Special Military Map (Camp Meade, 1923). The laundry was demolished (date unknown) and the USAOC firefighting water tank now resides on the former laundry site. The EPA reviewed historic aerial photographs (from 1938 to 1995) of Fort Meade and found no stains, stressed vegetation, debris, solid waste or other areas of environmental concern (EPA 1996) at this AOI.

Previous Studies: Two Geoprobe™ borings (DPT/GW9 and DPT/GW10) were advanced near this site in 2007. Soil and groundwater grab samples were collected. Arsenic was detected in surface and subsurface samples at concentrations above industrial and residential RSLs, but below background concentrations for Fort Meade. Iron, lead, vanadium, and zinc were detected in water samples collected from DPT/GW9 at concentrations above RSLs for tap water. In 2010, 2 closely spaced wells (MW-102s and MW-101d) were installed just east of the site. Monitoring wells MW-102s and MW-101d were sampled in 2010 and volatile organics, most notably tetrachloroethene, were detected at 3.82 µg/L and 139 µg/L, respectively.



Pre-WWII Laundry - USAOC
0 25 50 100 Feet

Current Use: USAOC firefighting water tank. The area is fenced.

Current Status: RI activities are currently underway.

Cleanup/Exit Strategy: Upon full identification of the nature and extent of contamination, prepare a decision document and implement a remedy agreed upon by all interested parties.

2.1.18.10 FGGM 95 (OU-45) – Waste Storage/Disposal Area – 1938

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Soil

Site Location: Grid I5, Waste Storage/Disposal Area – 1938 was located in the southeast corner of the installation, at the State Route 175/32 interchange.

Site Description: Waste Storage/Disposal Area – 1938 was identified as an AOI because possible waste storage or disposal was identified at this AOI during analysis of a 1938 aerial photograph. However, the EPA (1996) aerial photographic study of the installation did not identify this AOI until 1943.

Previous Studies: The EPA (1996) aerial photographic study of the installation identified a “Possible Dump or Waste Storage” area approximately 1,000 feet west of this AOI in the 1938 aerial. That site is being further studied under OU-4 as FGGM 88. In 1943, a building and vehicles are observed at the AOI. The building number or past use is not known. The description for the 1952 aerial photograph states “*This possible waste storage/disposal site has changed since 1943. It is now being used to store stockpiled raw materials. No evidence of waste material exists.*” The outline of the eastern area appears on the 1963 aerial but there is no discussion of this area in the text of the EPA (1996) report. A possible ground scar can be seen in the 1970 aerial; however the EPA (1996) study does not address it. The description for the 1975 aerial photograph states “*almost all of the raw materials previously stored at this site are removed.*”



WASTE STORAGE / DISPOSAL AREA- 1938
0 50 100 200 Feet

Current Use: This AOI is currently the on/off ramp for the State Route 175/32 interchange.

Current Status: A PA/SI is underway with a recommendation to collect 2 subsurface soil samples to be analyzed for VOCs, SVOCs, and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.18.11 FGGM 95 (OU-45) – Fill-1988

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Soil

Site Location: Grid E4, Fill-1988 is near the southwest perimeter of the installation, north of Perimeter Road and west of O'Brien Road.

Site Description: Fill-1988 is an AOI because the EPA (1996) aerial photographic investigation of Fort Meade labeled potential fill in this area in a 1988 historic aerial photograph; however, the potential fill was not discussed in the text of the EPA report. Fill was also labeled in this area on the 1995 aerial photograph, but it also was not discussed in the text of the report (EPA, 1996).

No stained soils or stressed vegetation were identified at this location or the surroundings on any of the historic aerial photographs. In the 1984 aerial photograph, this AOI and the adjacent square lot to the northwest are graded, possibly as part of site preparation for construction. By 1988, a building has been constructed on the adjacent lot to the west and the "Fill-1988" lot is covered with piles of dirt. By 1993, the AOI is graded, but by 1996, additional fill is brought in, most likely, to complete leveling of the site. By 1999, the AOI is again leveled and by 2002 a building and parking lot are constructed on this AOI.

Previous Studies: A historic aerial photograph study was completed. No previous sampling was undertaken.



Current Use: Administrative, parking lot, and grass areas

Current Status: A PA/SI is underway with a recommendation to collect 8 subsurface soil samples and analyze for VOCs, SVOCs, and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.18.12 FGGM 95 (OU-45) – Small Pit – 1952

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996
 PA/SI 2007
 PA/SI 2010-2014

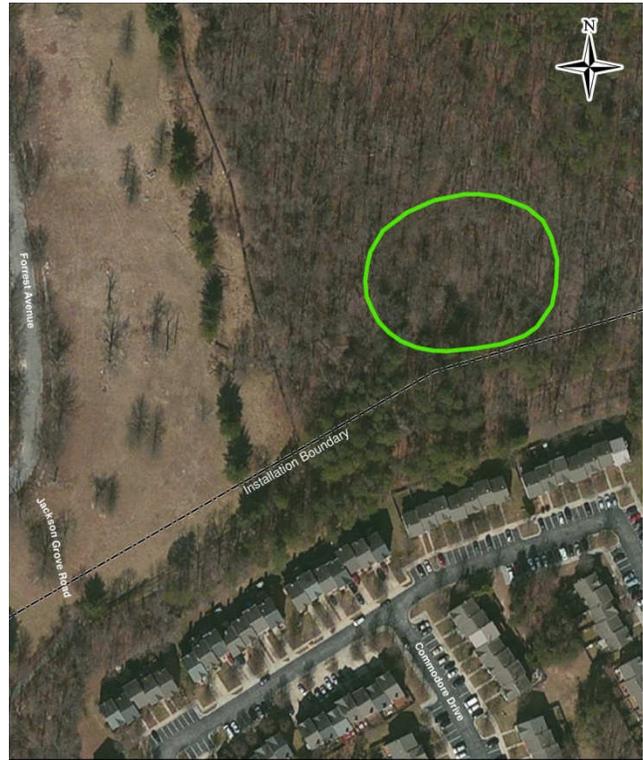
Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Small Pit-1952 was located in the northeast portion of the installation, northeast of Forrest Avenue.

Site Description: Small Pit-1952 was identified as an AOI because the EPA (1996) historic aerial photographic study of the installation listed a small pit on the 1952 aerial. The small pit was not specifically called out in the text of the EPA (1996) report. The small pit was not called out in subsequent aerial photographs, nor did the EPA (1996) suggest it was filled in. There is no evidence of scaring, staining, or disturbance in any of the historic aerial photographs (EPA, 1996).

Previous Studies: No previous sampling was undertaken. This area was extensively walked as part of a PA/SI (URS Group, Inc., 2007d), and no signs of pits or stressed vegetation were identified. The EPA (1996) study did not identify stained soils or stressed vegetation in this area.



FGGM 95 - Small Pit - 1952
 0 60 120 240 Feet

Current Use: Wooded

Current Status: A PA/SI is underway with a recommendation to collect 2 subsurface soil samples and 1 groundwater sample and analyze for VOCs, SVOCs, metals, pesticides, herbicides, and PCBs.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19 FGGM 96 (OU-46) – Former Motor Pools, Wash Racks, and Buildings

2.1.19.1 FGGM 96 (OU-46) – Former MP-1/WR-4

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, and metals

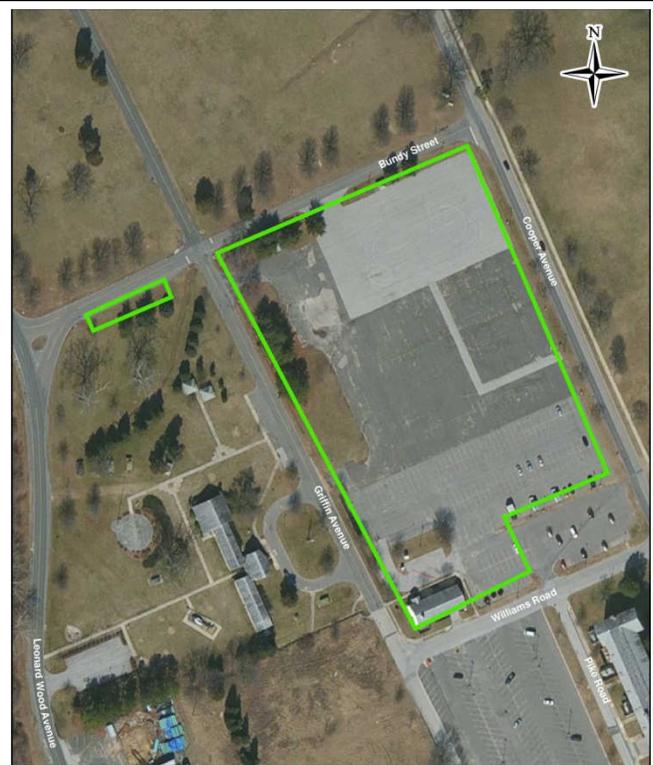
Media of Concern: Soil

Site Location: Grid G4, Former MP-1 and WR-4 were located in the south-central portion of the installation, west of Cooper Avenue, east of Griffin Avenue, south of Bundy Street, and north of Williams Road.

Site Description: MP-1/WR-4 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed them in the south-central portion of the installation. The EPA (1996) study identified a vehicle service and storage area at this location on the 1963 and 1970 aerial photographs. The write-up for the 1975 aerial photograph specifically states “No Longer a Vehicle Service and Storage Area, Now a Parking Lot” for this location.

Previous Studies: Potential environmental concerns were not cited for this location in the EPA report. There are no recent or historical indications of releases or contamination at this AOI. Also, there is no evidence of scarring, staining, or disturbance in any of the historic aerial photographs. This site may have been used as a parking lot (MP) and for washing cars (WR) for a limited time period. It is unknown if vehicles were serviced at any of the former buildings at this AOI. Three of the four buildings have been removed, and most likely, the soils have been graded. No stains or stressed vegetation was observed on any of the historic aerial photographs of this location.

There has been no previous environmental sampling at MP-1/WR-4.



Current Use: Parking lot and grassy area.

Current Status: A PA/SI is underway with a recommendation to collect 14 surface soil samples to be analyzed for VOCs, SVOCs, and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.2 FGGM 96 (OU-46) – Former MP-2

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996

Soil and Groundwater Quality

Investigation..... 2009

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, TPH-DRO, TPH-GRO, and metals

Media of Concern: Soil and groundwater

Site Location: Grid G4, MP-2 was located in the south central portion of the installation, west of Griffin Avenue and north of Simonds Street.

Site Description: MP-2 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed it in the south-central portion of Fort Meade. This AOI was also identified in the EPA (1996) review of historic aerial photographs, which shows a vehicle service and storage area at this location on the 1963, 1970, 1975, and 1988 aerial photographs.

Previous Studies: Stains, standing liquid, or vegetation stress was observed at this AOI in the 1963, 1970, 1975, and 1988 aerial photographs (EPA, 1996). Presently, the AOI does not exhibit signs of staining, runoff, or vegetation stress.

Over the course of previous investigations at this AOI, 5 surface soil samples, 5 subsurface soil samples (plus 1 duplicate sample), and 4 groundwater samples were collected and submitted for laboratory analysis.

The soil and ground-water quality investigation (USACHPPM, 2009) concluded that the results of the soil and groundwater analytical data suggest there has not been a contaminant release at the Former MP-2 area. However, the four areas of historic surficial staining have not been fully evaluated.



Current Use: Grassy field/vacant lot

Current Status: A PA/SI is underway with a recommendation to collect 4 surface soil samples, install 4 groundwater monitoring wells and analyze soil and groundwater samples for VOCs, SVOCs, TPH-GRO, TPH-DRO, and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, either the site will require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.3 FGGM 96 (OU-46) – Former MP-3/WR-2

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Soil

Site Location: Grid F4, Former MP-3 and WR-2 were located east of Zimborski Avenue, north of Simonds Street, in the southern portion of the installation.

Site Description: MP-3/WR-2 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed them in the southern portion of the Installation. The EPA (1996) report shows a vehicle service and storage area at this location on the 1963, 1970, 1975, and 1988 aerial photographs. The write-up for the 1995 aerial photograph specifically states “Former Vehicle Service and Storage Area” for this location. The EPA study did not report any environmental conditions for this location. There are no recent or historical indications of releases or contamination at this AOI. Also, there is no evidence of scarring, staining, or disturbance in any of the historic aerial photographs. This site may have been used as a parking lot (motor pool) and for washing cars (wash rack) for a limited time period. The potential for contamination in this area is minimal. It is unknown if vehicles were serviced at any of the former buildings at this AOI. All buildings have been removed and the soils have been excavated and graded.

Previous Studies: No previous sampling was conducted at this AOI.



MP-3 and WR-2
0 30 60 120 Feet

Current Use: Parking lot with grassy areas surrounding it.

Current Status: A PA/SI is underway with a recommendation to collect 13 surface soil samples and analyze for VOCs, SVOCs, and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.4 FGGM 96 (OU-46) – Former MP-4

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996

PA/SI 2010-2011

Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Soil

Site Location: Grid F5, Former MP-4 was located in the southern portion of the installation, south of Dutt Road, west of Zimborski Avenue.

Site Description: MP-4 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed it in the southern portion of the installation. The EPA (1996) study shows a vehicle service and storage area at this location on the 1943 and 1947 aerial photographs. Potential environmental concerns (i.e., stained soil or stressed vegetation) were not cited for this location in the EPA (1996) report.

Previous Studies: No previous sampling was conducted at this AOI.



MP-4
0 40 80 160
Feet

Current Use: MP-4 is currently a grassy area with several trees along the edges of the AOI.

Current Status: A PA/SI is underway with a recommendation to collect 5 surface soil samples and analyze for VOCs, SVOCs, and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.5 FGGM 96 (OU-46) – Former MP-5

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Soil and groundwater

Site Location: Grid G5, MP-5 was located in the southern portion of the installation, approximately 50 feet northeast of the intersection of Taylor Avenue and Hodges Street.

Site Description: MP-5 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed MP-5 in the southern portion of the Installation. This AOI was also identified in The EPA (1996) historic aerial photograph study of the installation, which shows a vehicle service and storage area at this location on the 1943, 1947, 1952, 1957, 1963, and 1975 aerial photographs. The outline of the AOI changed during those periods.

The 1963 aerial photograph summary identifies ground staining with a drainage pattern that flows east into an adjacent wooded area. The 1988 aerial photograph write-up states that there is a persistent drainage pattern leading from a small building to the adjacent woods but no stains or stressed vegetation are noted. The 1995 aerial photograph summary specifically states “Former Vehicle Service and Storage Area” for this location.

Previous Studies: No previous sampling was undertaken at this AOI.



Current Use: Grassy field and trees.

Current Status: A PA/SI is underway with a recommendation to collect 2 surface soil samples and analyze for VOCs, SVOCs, TPH-DRO and TPH-GRO, and metals; collect 2 subsurface soil samples and analyze for SVOCs, TPH, and metals; install 2 groundwater monitoring wells and analyze groundwater samples for VOCs, SVOCs, metals TPH-DRO, and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.6 FGGM 96 (OU-46) – Former MP-6

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Soil

Site Location: Grid H5, Former MP-6 was located in the southeastern portion of the Installation, at the State Route 175/32 interchange.

Site Description: MP-6 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed it in the south-eastern portion of the installation. According to the 1952 map, there are no buildings located within the outline of this MP. Building 111, however, was located on the north-eastern edge of this AOI. This AOI was not identified in the EPA (1996) historic aerial photograph study of the installation. Since there were no former buildings at this AOI, it is unknown and unlikely that vehicles were serviced at this AOI. All surrounding buildings have been removed by 1993 and the soils have been excavated and graded. No stains or stressed vegetation was observed on any of the historic aerial photographs of this location. The buildings were gone at the time of the 1996 SWMU study (BCM, 1996), so the SWMU study did not cover this portion of the installation.

Previous Studies: No previous sampling was undertaken.



Current Use: MP-6 is currently a grassy area and part of State Route 175/32 interchange.

Current Status: A PA/SI is underway with a recommendation to collect 2 surface soil samples and analyze for VOCs, SVOCs, and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.7 FGGM 96 (OU-46) – Former MP-7/WR-6

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996
 PA/SI 2007
 PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Soil and groundwater

Site Location: Grid H4/5, MP-7, and WR-6 were located in the southeastern portion of the Installation, northeast of Chamberlain Avenue, southwest of State Route 175, southeast of 4th Street, and northwest of State Route 32. SWMU 10 - Building 294 is in the northwest corner of this AOI. SWMU 10 is being addressed separately.

Site Description: Staining was observed at this AOI in the 1943, 1957, and 1963 aerial photographs (EPA, 1996). In the write-up for the 1995 aerial photograph, the EPA (1996) no longer identifies this AOI as a vehicle service and storage area.

Previous Studies: Over the course of previous investigations at this AOI, 5 subsurface soil and 3 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic, iron, vanadium, and chromium elevate the risk numbers above the site-specific action levels.



MP-7 and WR-6
 0 100 200 400 Feet

Current use: Building 294 and a grass field occupy this AOI.

Current Status: A PA/SI is underway with a recommendation to sample soil and groundwater in the areas of past staining. Six surface soil samples will be collected and analyzed for VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO. Two subsurface soil samples will be collected and analyzed for metals. Five groundwater monitoring wells will be installed and groundwater samples will be collected and analyzed for VOCs, total metals, dissolved metals, TPH-DRO, and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.8 FGGM 96 (OU-46) – Former MP-8

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996
Historic Aerial Photograph Study..... 1996
PA/SI..... 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Soil and groundwater

Site Location: Grid H4, Former MP-8 was located in the southeastern portion of the Installation, east of Ernie Pyle Street, west of Chisholm Road, south of 4th Street, and north of Huber Road.

Site Description: MP-8 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed it in the southeastern portion of the Installation. The EPA (1996) study shows a vehicle service and storage area at this location on aerial photographs from 1943, 1952, and 1957. This area is not covered in the 1947 aerial photograph. The 1952 land use map (Anon., 1952) identifies MP-8 in the southwestern portion of the AOI outlined in the EPA study (1996).

Previous Studies: No previous sampling was undertaken. The EPA (1996) study did not identify stained soils or stressed vegetation at this location.



MP-8
0 40 80 160 Feet

Current Use: Grass field

Current Status: A PA/SI is underway with a recommendation to collect 2 surface soil samples, install 1 groundwater monitoring well, and analyze soil and groundwater samples for VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.9 FGGM 96 (OU-46) – Former MP-9

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

PA/SI 2007

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Soil and groundwater

Site Location: Grid H4, MP-9 was located in the eastern portion of the Installation, east of Chamberlain Avenue, west of State Route 175, halfway between 6th Street and 4th Street and near present Building 375.

Site Description: The EPA (1996) historic aerial photograph study of the installation listed a vehicle service and storage area in this area on the 1943, 1947, 1952, 1957, 1963, 1970, and 1975 aerial photographs. This vehicle service and storage area was expanded after 1943; it covers more area on the 1947 aerial photograph and is larger yet on the 1952 aerial photograph, extending down to 4th Street. Stains appear in the 1952, 1957, 1963, and 1970 aerial photographs (EPA, 1996).

Previous Studies: Over the course of previous investigations at this AOI, 4 subsurface soil samples and 2 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic, iron, vanadium, and chromium elevate the risk numbers above the site-specific action levels.



Current Use: Administrative and a grass field

Current Status: A PA/SI is underway with a recommendation to sample soil and groundwater in the areas of past staining. Three surface soil, 3 subsurface soil and 4 groundwater samples (from 4 new groundwater monitoring wells) will be collected and analyzed for VOCs, SVOCs, TPH-DRO, TPH-GRO, and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.10 FGGM 96 (OU-46) – Former MP-10

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

PA/SI 2010-2014

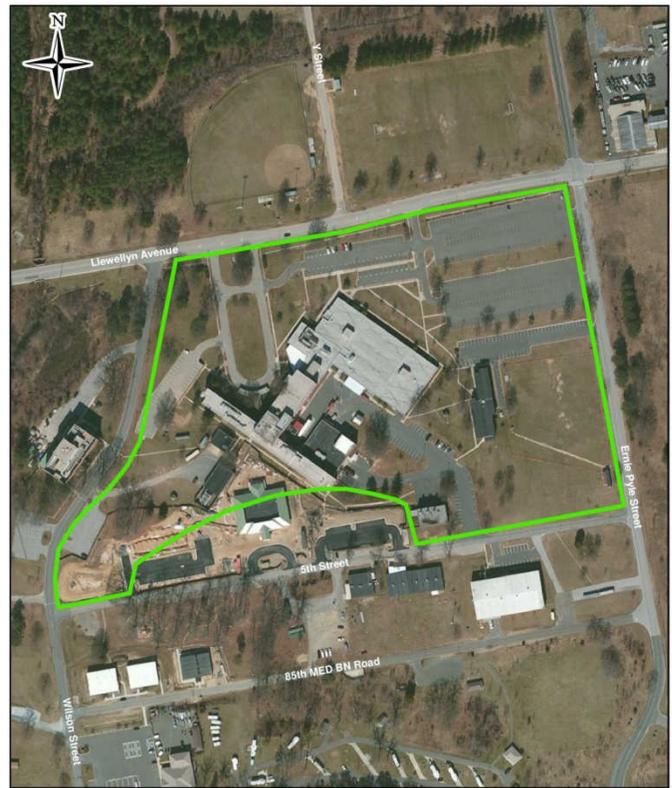
Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Soil and groundwater

Site Location: Grid H4. Former MP-10 was located in the southeastern portion of the Installation, north of 5th Street, south of Llewellyn Avenue, east of Wilson Street, and west of Ernie Pyle Street.

Site Description: MP-10 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed MP-10 in the southeastern portion of the Installation. This AOI was also identified in the EPA (1996) review of historic aerial photographs, which shows a vehicle service and storage area at this location on the 1938 aerial photograph. Part of this AOI is currently covered by the Kimbrough Army Community Hospital (identified as FGGM 37) and the boiler plant for the hospital (identified as SWMU 72). The 1952 land use map (Anon., 1952) locates MP-10 in a small portion of the middle of this AOI. The 1943 historic aerial photograph (EPA, 1996) outlines a larger area.

Previous Studies: Staining is observed in the 1943, 1947, and 1957 aerial photographs. By 1963, this former vehicle service and storage area has been converted into the Kimbrough Army Community Hospital. As part of the investigations of Buildings 2480 and 2482, soil and groundwater samples have been collected within the outline of MP-10. Previous samples are discussed under Buildings 2480 and 2482.



Current Use: Kimbrough Army Community Hospital, parking lots, and grass areas occupy this AOI.

Current Status: A PA/SI is underway with a recommendation to sample soil and groundwater in the areas of past staining. Two soil and 2 groundwater samples (from 2 new groundwater monitoring wells) will be collected and analyzed for VOCs, SVOCs, and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.11 FGGM 96 (OU-46) – Former MP-11/WR-7

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Soil and groundwater

Site Location: Grid H3. MP-11 and WR-7 were located in the eastern portion of the Installation, east of Ernie Pyle Street, west of State Route 175, north of Mapes Road, and south of 13th Street.

Site Description: MP-11/WR-7 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed them in the eastern portion of the Installation. This AOI is also identified in the EPA (1996) study, which shows a vehicle service and storage area at this location in the 1947 and 1952 aerial photographs. Ground staining is visible at three locations and standing liquid is noted at one location on the 1947 aerial photograph (EPA, 1996). The standing liquid was not discolored or stained. No staining is visible in the 1952 aerial photograph. A smaller area at this location is shown as a vehicle service and storage area in the 1963, 1970, and 1975 aerial photographs.

Previous Studies: There has been no previous sampling at this AOI.



MP-11 and WR-7
0 40 80 160 Feet

Current Use: Open field

Current Status: A PA/SI is underway with a recommendation to sample soil and groundwater in the areas of past staining. Four soil and 4 groundwater samples (from 4 new groundwater monitoring wells) should be collected and analyzed for VOCs, SVOCs, metals, TPH-DRO and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.12 FGGM 96 (OU-46) – Former MP-12/WR-8

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

PA/SI 2010-2014

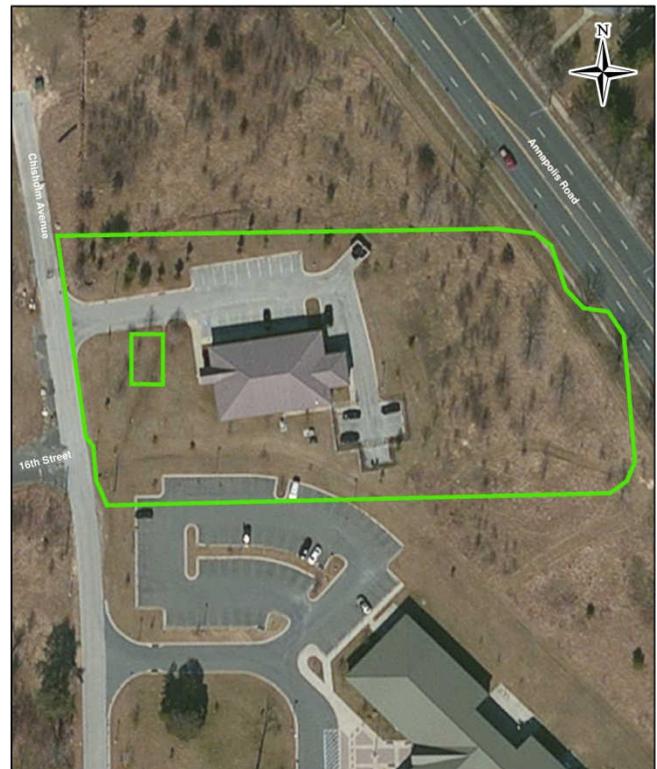
Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Soil and groundwater

Site Location: Grid H3. MP-12 and WR-8 were located in the eastern portion of the Installation, east of Chisholm Avenue, south of Reece Road, and west of State Route 175.

Site Description: MP-12/WR-8 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed this AOI in the eastern portion of the Installation. The AOI is also identified in the EPA (1996) study, which shows a vehicle service and storage area at this location on the 1957, 1963, 1970, and 1975 aerial photographs. Staining is visible in the southeast portion of this AOI in the 1957 and 1963 aerial photographs and standing liquid is noted in the same area on the 1963 aerial photograph (EPA, 1996). The standing liquid was not discolored or stained. The write-up for the 1988 aerial photograph specifically states “Vehicle Service and Storage Area No Longer Present.”

Previous Studies: There has been no previous sampling at this AOI.



MP-12 and WR-8
0 40 80 160 Feet

Current Use: Administrative and a grass area

Current Status: A PA/SI is underway with a recommendation to sample soil and groundwater in the areas of past staining. Two soil and 2 groundwater samples (from 2 new groundwater monitoring wells) should be collected and analyzed for VOCs, SVOCs, metals, TPH-DRO and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.13 FGGM 96 (OU-46) – Former MP-13/WR-9

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study. 1996

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Soil and groundwater

Site Location: Grid H2. MP-13 and WR-9 were located in the northeastern portion of the Installation, north of Reece Road, east of Chisholm Avenue, and west of State Route 175.

Site Description: MP-13/WR-9 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed them in the north-eastern portion of the installation. This AOI is also identified in the EPA 1996 historic aerial photograph study of the installation which shows a vehicle service and storage area at this location on the 1943, 1947, 1957, 1963, 1970, and 1988 aerial photographs. Staining is visible in the northwest portion of this AOI in the 1963 and 1970 aerial photographs (EPA, 1996).

Previous Studies: There has been no previous sampling at this AOI.



MP-13 and WR-9
0 30 60 120 Feet

Current Use: Parking lot.

Current Status: A PA/SI is underway with a recommendation to sample soil and groundwater in the area of past staining. One soil and 1 groundwater sample (from 1 new groundwater monitoring well) should be collected and analyzed for VOCs, SVOCs, metals, TPH-DRO and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.14 FGGM 96 (OU-46) – Former MP-14

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study.....1996

PA/SI.....2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Soil and groundwater

Site Location: Grid H2. MP-14 was located in the northeastern portion of the Installation, east of State Route 175 and south of 20th Street.

Site Description: MP-14 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed it in the northeastern portion of the Installation. The AOI is also identified in the EPA (1996) historic aerial photograph study of the installation, which shows a vehicle service and storage area at this location on the 1943, 1947, 1952, 1957, 1963, 1970, and 1975 aerial photographs. Five sumps are shown in the southern and eastern portion of this area on the 1957 aerial photograph (EPA, 1996). The sumps, or the area around them, were not discolored or stained. A stain is visible in the southwest portion of this area in the 1963 aerial photograph but not in subsequent aerial photographs.

Previous Studies: There has been no previous sampling at this AOI.



Current Use: Parking lot and grass field

Current Status: A PA/SI is underway with a recommendation to sample soil and groundwater in the area of past staining. One soil and 1 groundwater sample (from 1 new groundwater monitoring well) should be collected and analyzed for VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.15 FGGM 96 (OU-46) – Former MP-17

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996

PA/SI..... 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Soil and groundwater

Site Location: Grid G2. MP-17 was located in the northeastern portion of the Installation, north of Clark Road, east of Macarthur Road, and west of 21st Street.

Site Description: MP-17 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed MP-17 in the northeastern portion of the Installation. This AOI was also identified in the EPA (1996) historic aerial photograph study of the installation, which shows a vehicle service and storage area at this location on the 1943, 1947, 1957, 1963, and 1970 aerial photographs.

Previous Studies: No stains or stressed vegetation was observed at this AOI during the EPA (1996) review of historic aerial photographs of this AOI. There has been no previous sampling at this AOI.



Current Use: Ball field and grassy area.

Current Status: A PA/SI is underway with a recommendation to collect 6 soil samples install 1 groundwater monitoring well. Both soil and groundwater samples will be analyzed for VOCs, SVOCs, metals TPH-DRO, and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.16 FGGM 96 (OU-46) – Former MP-18/WR-12

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Soil and groundwater

Site Location: Grid G2. MP-18 and WR-12 were located in the northern portion of the Installation, south of Ernie Pyle Street, at Fryar Loop.

Site Description: MP-18/WR-12 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed them in the northern portion of the Installation. The AOI is also identified in the EPA 1996 historic aerial photograph study of the installation, which shows a vehicle service and storage area at this location on the 1943, 1947, 1957, 1963, and 1970 aerial photographs. Vegetation stress is noted in the 1952 aerial photograph. Also, a runoff pattern was noted in the 1957 aerial photograph. The runoff pattern and vegetation stress in the area were not present in subsequent historic aerial photographs.

Previous Studies: No previous sampling was undertaken.



Current Use: Administrative and parking areas

Current Status: A PA/SI is underway with a recommendation to sample soil and groundwater in the areas of past staining. Four soil and 4 groundwater samples (from 4 new groundwater monitoring wells) should be collected and analyzed for VOCs, SVOCs, metals, TPH-DRO and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.17 FGGM 96 (OU-46) – Former MP-19/WR-13

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Soil and groundwater

Site Location: Grid G2. MP-19 and WR-13 are in the northern portion of the Installation, north of Clark Road, east of 27th Street, and west of Oliver Street.

Site Description: MP-19/WR-13 was identified as an AOI because the circa 1952 land use map (Anon., 1952) listed them in the northern portion of the Installation. The AOI was also identified in the EPA (1996) review, which shows a vehicle service and storage area at this location on the 1943, 1952, 1957, 1963, 1970, and 1975 aerial photographs.

Previous Studies: The EPA (1996) study identified a stain in the southwest portion of the AOI, stressed vegetation directly to the north, and a runoff pattern off the northwest corner of the vehicle service and storage area on the 1957 aerial photograph. Over the course of previous investigations at this AOI, 6 surface soil samples (plus 1 duplicate sample), 6 subsurface soil samples, and 3 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic and chromium elevate the risk numbers above the site-specific action levels.



MP-19 and WR-13
0 75 150 300 Feet

Current Use: Buildings, parking areas, and a grass field

Current Status: A PA/SI is underway with a recommendation to sample soil and groundwater in the areas of past staining. Seven soil and 7 groundwater samples (from 7 new groundwater monitoring wells) should be collected and analyzed for VOCs, SVOCs, metals, TPH-DRO and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.18 FGGM 96 (OU-46) – Former WR-3

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996
Historic Aerial Photograph Study..... 1996
PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Soil

Site Location: Grid F4. Former WR-3 was located in the southern portion of the installation, north of Simonds Street and east of York Avenue.

Site Description: This wash rack was probably used for washing cars. Chemicals potentially used at this wash rack may have included soap and car wax. Neither this wash rack nor nearby Building 6507 were identified as SWMUs during the SWMU study (BCM, 1996), so there are no reports of hazardous chemicals being used or stored at the building or the wash rack. Access to WR-3 appears to be from York Avenue or along a path leading from Building 6507.

Previous Studies: The wash rack first appears on the 1943 aerial and is last seen on the 1977 aerial. By 1984, it is no longer visible. The EPA (1996) review of historic aerial photographs did not identify potential concerns at this area. No stained soils or stressed vegetation were identified on any aerial photographs. There was no previous sampling for this AOI.



Current Use: Trees

Current Status: A PA/SI is underway with a recommendation to collect 4 surface soil samples and analyze for VOCs, SVOCs, and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.19 FGGM 96 (OU-46) – Chisholm Avenue and 6th Street

Regulatory Driver: CERCLA

Previous Environmental Investigations

Site Assessment 2010

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

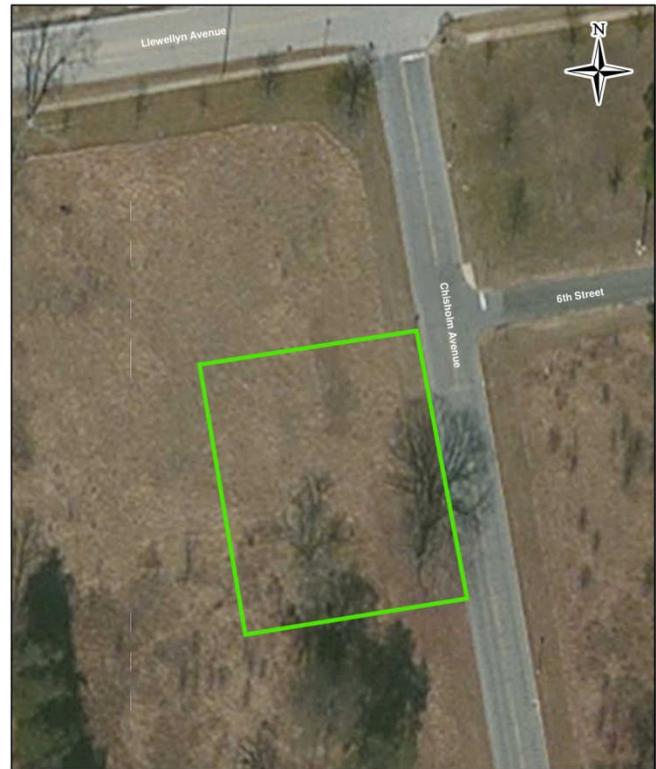
Media of Concern: Soil and groundwater

Site Location: Grid H4, Chisholm Avenue and 6th Street is in the southeastern portion of the installation, along Chisholm Avenue and 6th Street.

Site Description: Chisholm Avenue and 6th Street is an AOI because discolored soil with an unusual odor was uncovered during trenching for the installation of a communications duct bank.

Previous Studies: Over the course of previous investigations at this AOI, 10 subsurface soil samples (plus 1 duplicate) and 3 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic, 1,2,4-trimethylbenzene, iron, naphthalene, cobalt, and chromium elevate the risk numbers above the site-specific action levels.

The U.S. Army Public Health Command (2010) report recommends the installation of 2 additional temporary monitoring wells. One temporary monitoring well should be installed to the east of former temporary monitoring well 6TH-TWP-1. The second monitoring well should be installed to the northwest of former temporary monitoring well 6TH-TWP-1. The additional monitoring wells will be used to determine the horizontal extent of petroleum affected groundwater.



Chisholm Avenue and 6th Street
0 25 50 100 Feet

Current Use: Grass and trees

Current Status: A PA/SI is underway with a recommendation to collect 2 soil samples to be analyzed for VOCs, TPH-DRO, and TPH-GRO; install 2 groundwater monitoring wells; collect and analyze groundwater samples for VOCs, SVOCs, metals TPH-DRO, and TPH-GRO. It was also recommended to develop an appropriate corrective measure for soils and groundwater at the 6th Street and Chisholm Avenue site following the additional monitoring well installations and groundwater sampling. In addition, the MDE OCP is requesting further analysis for LPH.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.20 FGGM 96 (OU-46) – Photography Lab, Building 546 (SWMU 011)

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU 1996
 Sampling Visit. 1999
 Delineation Reports..... 2000
 PA/SI 2010-2014

Contaminants of Potential Concern: SVOCs and metals

Media of Concern: Groundwater

Site Location: Grid H4, Building 546 is located in the eastern portion of the installation, on 8th Street between Chamberlin and Chisholm Avenues.

Site Description: Building 546 was identified as a SWMU because of routine discharge of water from a silver recovery unit (BCM, 1996). The discharge point was the Fort Meade sanitary sewer system. There were no spills or reported releases identified during the SWMU study (BCM, 1996). Prior to 1985, the building was used as a visual information training center, and since 1985 it has been used as a full service photographic laboratory, offices, and graphic arts department.

Previous Studies: Over the course of previous investigations at this AOI, 12 subsurface soil samples (plus 1 duplicate subsurface soil sample) and 12 groundwater samples (plus 1 duplicate groundwater sample) were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic, copper, mercury, and chromium elevate the risk numbers above the site-specific action levels.



Building 546 - Photography Laboratory
 0 25 50 100 Feet

Current Use: Administrative

Current Status: A PA/SI is underway with a recommendation to install 3 groundwater monitoring wells and analyze groundwater samples for SVOCs and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.21 FGGM 96 (OU-46) – MP, WR, and OWS, Building 940

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996

Sampling Visits 1999

SI 2001

PA/SI 2010-2014

Contaminants of Potential Concern: Metals

Media of Concern: Groundwater

Site Location: Grid G3/H3, The former MP at Building 940 and the associated WR and OWS were located in the eastern portion of the installation, in the northwest corner of the intersection of 18th Street and Ernie Pyle Street.

Site Description: Former Building 940 (SWMU 146) was identified as a potential past SWMU in the 1996 SWMU study (BCM, 1996) because it was formerly used as a MP and the exact management of waste from the MP is unknown. The associated former WR (SWMU 13) and OWS (SWMU 12) were identified as potential SWMUs because there was systematic discharge of wash water to the OWS from the WR (BCM, 1996). There were no spills or reported releases identified during the SWMU study (BCM, 1996). Building 940 was vacant for a period of time and was demolished in 1999. The OWS and WR were also removed in 1999.

Previous Studies: Over the course of previous investigations at this AOI, 4 surface soil samples (plus 1 duplicate surface soil sample), 14 subsurface soil samples (plus 1 duplicate subsurface soil sample), and 6 groundwater samples (plus 2 duplicate groundwater samples) were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic, cobalt, iron, aluminum, manganese, and chromium elevate the risk numbers above the site-specific action levels.



Building 940 - Motor Pool, Wash Rack and Oil/Water Separator

0 35 70 140 Feet

Current Use: Parking lot.

Current Status: A PA/SI is underway with a recommendation to install 3 groundwater monitoring wells and analyze groundwater samples for metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.22 FGGM 96 (OU-46) – Army Reserves MP (SWMUs 14-18), Building 1007

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996
SWMU Study 1996
Sampling Visits 1999
Draft Delineation Reports 2000
PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-GRO, and TPH-DRO

Media of Concern: Soil and groundwater

Site Location: Grid H2, Building 1007 is located in the northeastern portion of the installation, northwest of the intersection of 20th Street and State Route 175/Annapolis Road.

Site Description: This AOI is comprised of Building 1007 (SWMUs 14 and 15), OWS (SWMU 16), Vehicle WR (SWMU 17), and Pump station (SWMU 18). Since its construction in 1941, Building 1007 has had a variety of uses including equipment and vehicle storage, motor repair, and shipping of equipment. The shop used petroleum products, solvents, paints, and cleaning materials. Military vehicles were stored at the AOI by the U.S. Army Reserves.

The vehicle WR, OWS, and pump station were used to wash vehicles, collect the discharge water into the OWS and then pump it into the sanitary sewer until it was demolished and removed from service in 1999/2000.

Previous Studies: During previous sampling at this AOI, 1 surface soil sample (plus 1 duplicate surface soil sample), 17 subsurface soil samples (plus 1 duplicate subsurface soil sample), and 5 groundwater samples were collected and analyzed. Based on a risk analysis of the analytical results, arsenic, naphthalene, 1,2,4-trimethylbenzene, 1,1,2,2-tetrachloroethane, and chromium elevate the risk numbers above the site-specific action levels. Benzene and lead were detected above their MCLs.



Building 1007 - Army Reserves Motor Pool
0 50 100 200 Feet

Current Use: Parking lot

Current Status: A PA/SI is currently underway with a recommendation to collect 2 soil samples, install 2 monitoring wells, and collect 2 groundwater samples. The soil samples will be analyzed for VOCs. The groundwater samples will be analyzed for VOCs, SVOCs, TPH-GRO, and TPH-DRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.23 FGGM 96 (OU-46) – Vehicle Maintenance, WR, and OWS, Building 2120c

Regulatory Driver: CERCLA

Previous Environmental Investigations

- SWMU Study.....1996
- Sampling Visits.....1999
- SI2001
- Project Summary Report.....2003
- PA/SI.....2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals TPH-DRO, and TPH-GRO

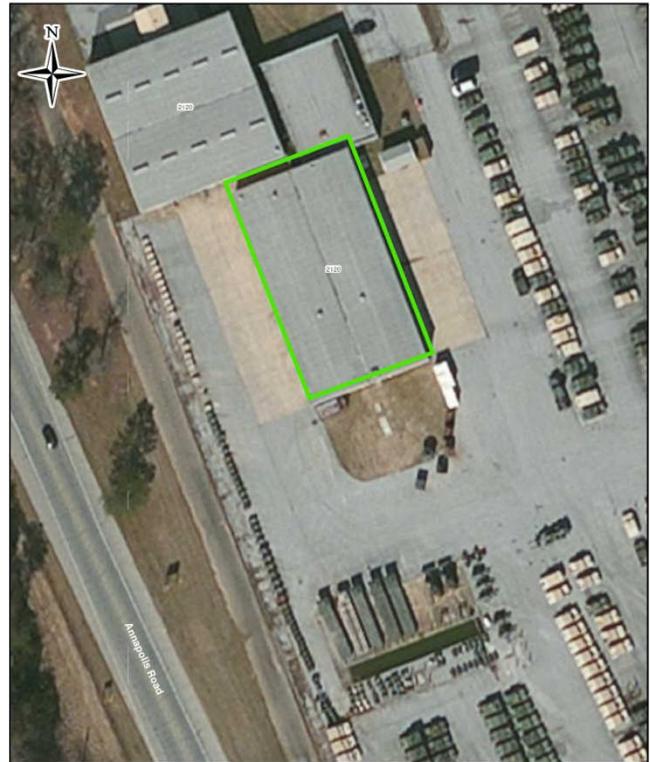
Media of Concern: Groundwater

Site Location: Grid H2, Building 2120c is located in the northeastern portion of the installation, in the southeast quadrant of the intersection of 21½ Street and Annapolis Road.

Site Description: Building 2120c Vehicle Storage and Maintenance was identified as Equipment Concentration Station 86 in the SWMU study (BCM, 1996). Building 2120c was identified as SWMU 25 because it had been used to maintain and repair motor vehicles (BCM, 1996). Hazardous chemicals and petroleum products used and stored in the building included motor and lubricating oil, sulfuric acid, anti-freeze, used oil, degreasers, and batteries.

The OWS south of Building 2120c (SWMU 26) and the truck wash pit (SWMU 27) and associated OWS (SWMU 28) south of SWMU 26 were identified as SWMUs because there was systematic discharge of wash water into the OWS from the building and truck wash pit (BCM, 1996).

Previous Studies: Over the course of previous investigations at this AOI, 2 surface soil samples (plus 1 duplicate surface soil sample), 22 subsurface soil samples (plus 2 duplicates), and 5 groundwater samples (plus 2 duplicates) were collected and submitted for chemical analysis. Based on a risk analysis of the analytical results, arsenic, cadmium, and chromium elevate the risk numbers above the site-specific action levels.



Building 2120c - Vehicle Storage and Maintenance
 0 30 60 120 Feet

Current Use: Administrative

Current Status: A PA/SI is underway with a recommendation to install 3 groundwater monitoring wells and analyze groundwater samples for VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.24 FGGM 96 (OU-46) – Vehicle Maintenance, MP-16/WR-11, Former Building 2128

Regulatory Driver: CERCLA

Previous Environmental Investigations

- Historic Aerial Photograph Study..... 1996
- SWMU Study 1996
- Sampling Visits 1999
- Initial Delineation.....2000
- Data Gap Investigation.....2003
- PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

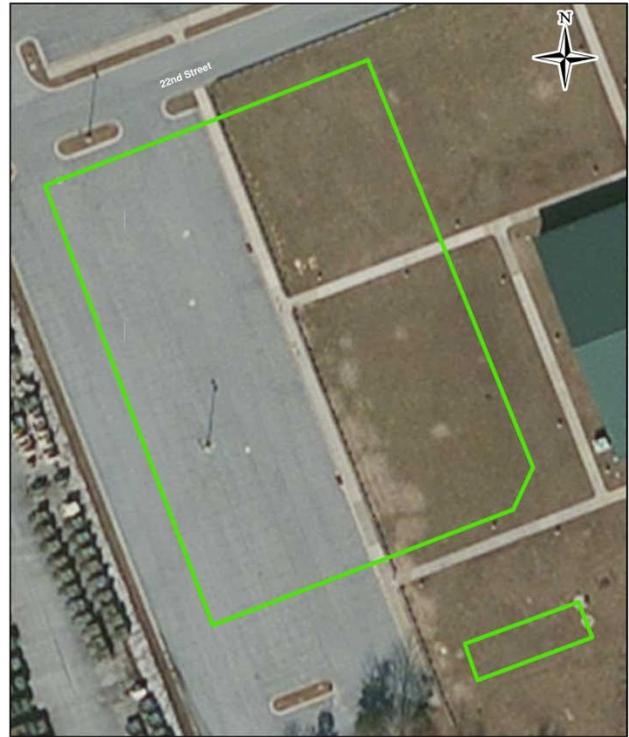
Media of Concern: Soil and groundwater

Site Location: Grid H2, Building 2128 is in the northeastern portion of the installation, approximately 600 feet east of the intersection of Annapolis Road and 21½ Street.

Site Description: Building 2128 (SWMUs 35 and 36) was a former Heavy Equipment and Generator Maintenance Shop constructed in 1941. It was used for maintenance of vehicles, generators, and forklifts. A parts cleaner, serviced by Safety Kleen, was used in the building. Wastes generated by routine oil changes and vehicle maintenance were taken to Building 2120c, located approximately 300 feet to the west, pending proper disposal.

A circa 1952 land use map (Anon., 1952) shows former MP-16 located at this AOI and former WR-11 immediately south of this AOI.

Previous Studies: During previous investigations at Building 2128, 4 surface soil samples (plus 1 duplicate), 22 subsurface soil samples (plus 2 duplicates), and 6 groundwater samples (plus 2 duplicates) were collected. Based on a risk analysis of the analytical results, arsenic, lead, mercury, and chromium elevate the risk numbers above the site-specific action levels.



Building 2128 - Vehicle Maintenance
0 25 50 100 Feet

Current Use: Parking lot.

Current Status: A PA/SI is underway with a recommendation to collect 6 surface (analyze for VOCs and SVOCs) and 6 subsurface (analyze for VOCs, SVOCs, and metals) soil samples, install 6 groundwater monitoring wells and analyze groundwater samples for VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.25 FGGM 96 (OU-46) – Maintenance Shop, WR, and OWS, Former Buildings 2224 and 2227

Regulatory Driver: CERCLA

Previous Environmental Investigations

- Historic Aerial Photograph Study..... 1996
- SWMU Study 1996
- Sampling Visit 1999
- Initial Delineation Report 2001
- PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, TPH-DRO, TPH-GRO, and metals

Media of Concern: Soil and groundwater

Site Location: Grid H5, Former Building 2227 was located in the southeastern portion of the installation, northeast of the intersection of 3rd Street and Pepper Road.

Site Description: Constructed in 1941, Building 2227 (SWMU 147) was used as a vehicle repair shop until the mid-1980s. The WR (SWMU 44 and Building 2224) was used to wash vehicles and equipment; it discharged waste wash water to the OWS (SWMU 43), which discharged to the sanitary sewer system. By 1996, Building 2227 was no longer in use, and by 1999 the building, WR, and OWS had been demolished and removed. A former gas station was located southwest of Building 2224.

Previous Studies: Over the course of previous investigations at this AOI, 27 subsurface soil samples (plus 2 duplicate samples) and 17 groundwater samples (plus 1 duplicate sample) were collected and submitted for laboratory analysis. Petroleum free product was observed at locations GW18 and GW25. Based on a risk analysis of the analytical results, arsenic, chromium, naphthalene, benzene, toluene, xylenes (total), ethylbenzene, mercury, and toluene elevate the risk numbers above the site-specific action levels.



Current Use: Grass and trees

Current Status: A PA/SI is underway with a recommendation to collect 4 soil samples, install 4 groundwater monitoring wells, and analyze soil and groundwater samples for VOCs, metals TPH-DRO, TPH-GRO, and SVOCs (soil only). In addition, since free product was observed at locations 13, 15, 18, and 25, the MDE OCP is requesting further analysis for LPH.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.26 FGGM 96 (OU-46) – Boiler Plant (SWMU 72), Building 2482

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study	1996
Sampling Visit	2000
SI	2001
Data Gap Investigation.....	2002
PA/SI	2010-2014

Contaminants of Potential Concern: SVOCs, metals, PCBs, and dioxin

Media of Concern: Soil and groundwater

Site Location: Grid H4, in the southeastern portion of the installation, south of Kimbrough Army Community Hospital on 5th Street, approximately 500 feet west of the intersection with Ernie Pyle Street.

Site Description: Building 2482 was formerly used as a boiler plant to provide steam to Kimbrough Army Community Hospital. The plant contains three oil-fired boilers. A 400-gallon AST located in the parking lot on the north side of the building stored used oil collected throughout the installation for recycling. Chemicals for boiler water treatment, including neutralizing solutions, phenolphthalein, hardness solution, iodine, sodium sulfate, phosphates, and caustic soda, were stored in the boiler room. Two 20,000-gallon fuel oil steel USTs were removed from the south side of the building in January 2001. An 8,000-gallon fuel oil fiberglass-reinforced plastic UST was abandoned in place on the northeast corner of the building.

Previous Studies: Over the course of previous investigations at this site, 10 surface soil samples, 14 subsurface soil samples, and 13 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic, benzo(a)pyrene, benzo(a)anthracene, iron, naphthalene, cobalt, aluminum and manganese elevate the risk numbers above the site-specific action levels.



Building 2482 - Used Oil Recycling Tank at Hospital Boiler Plant
0 30 60 120 Feet

Current Use: Administrative

Current Status: A PA/SI is underway with a recommendation to collect 4 surface soils samples and analyze for PCBs and dioxins, collect 1 subsurface soil sample and analyze for SVOCs, install 1 groundwater monitoring well and analyze the groundwater sample for metals and SVOCs.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.27 FGGM 96 (OU-46) – Medical Lab (SWMU 74), Building 2490

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996
Sampling Visit..... 1999
PA/SI 2010-2014

Contaminants of Potential Concern: Metals
TPH-DRO, and TPH-GRO

Media of Concern: Groundwater

Site Location: Grid H4, in the southeastern portion of the installation, approximately 500 feet south of the intersection of Wilson Street and Llewellyn Avenue.

Site Description: Building 2490 has been used as a medical laboratory since its construction in the late 1950s. The basement was used as a radioactive section of a clinical laboratory from 1960 to 1994. Chemicals used in the radioactive section include buffer solutions, alcohol, and WD-40. The radioactive materials are stored in a refrigerated room. Chemicals used in the lab include methanol, acid dichromate, 2-proponal, hexanes, and 2,2,4-trimethyl pentane. Chemicals which are being used are kept in the refrigerated room; otherwise, new chemicals are stored in flammable cabinets.

Previous Studies: Over the course of previous investigations at this site, nine surface soil samples, 21 subsurface soil samples, and nine groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic, mercury, and chromium elevate the risk numbers above the site-specific action levels.



Building 2490 - Forensic Toxicology and Drug Testing Lab
0 25 50 100 Feet

Current Use: Administrative

Current Status: A PA/SI is underway with a recommendation to install 3 groundwater monitoring wells and analyze groundwater samples for dissolved and total metals, TPH-DRO, and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.28 FGGM 96 (OU-46) – Maintenance (SWMUs 75 and 76), Building 2501

Regulatory Driver: CERCLA

Previous Environmental Investigations

- SWMU Study 1996
- Sampling Visit..... 2000
- RCRA and Data Gap Reports..... 2003
- PA/SI 2010-2014

Contaminants of Potential Concern: TPH-DRO, TPH-GRO, VOCs, and metals

Media of Concern: Groundwater

Site Location: Grid H4, located in the eastern portion of the installation, northwest of the intersection of Chisholm and Llewellyn Avenues.

Site Description: Building 2501 was used as an equipment receiving and shipping facility in support of intelligence agencies. The facility had a foam pack machine that uses a foam component and a hardener component (polymeric isocyanate). The polymeric isocyanate was stored in drums inside the building, and when the drums were empty they were disposed through the DRMO.

Previous Studies: Over the course of previous investigations at this site, 5 surface soil samples, 18 subsurface soil samples, and 1 groundwater sample were collected and submitted for analysis. Based on a risk analysis of the analytical results, arsenic elevates the risk numbers above the site-specific action levels. A sheen was observed at location SB-1.



Building 2501 - Shipping and Receiving
 0 25 50 100 Feet

Current Use: Administrative

Current Status: A PA/SI is underway with a recommendation to install 1 groundwater monitoring well and analyze groundwater samples for VOCs, total and dissolved metals, TPH-DRO, TPH-GRO, and cyanide. In addition, since a sheen was observed at location SB-1, the MDE OCP is requesting further analysis for LPH.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.29 FGGM 96 (OU-46) – OWS and WR near Building 2630

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996
 Sampling Visits 1999
 SI 2001
 PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, TPH-GRO, herbicides, and pesticides

Media of Concern: Soil and groundwater

Site Location: Grid H4, located in the eastern portion of the installation, west of the intersection of Ernie Pyle and 10th Streets, and north of Building 2630.

Site Description: The SWMU 78 WR was used for washing military vehicles and was constructed of a bermed concrete platform with a catch basin which drained to the OWS (SWMU 77).

Formerly two WRs, identified as SWMU 79, were in a former building north of Building 2630. Based on facility drawings, the former WR was constructed of a bermed concrete platform with a catch basin. It was removed sometime prior to 1999.

Previous Studies: Over the course of previous investigations at this site, 17 direct-push borings were completed; 4 surface soil, 17 subsurface soil, and 2 groundwater samples were collected and submitted for analysis. Based on a risk analysis of the analytical results, methylchlorophenoxypropionic acid (MCP) and arsenic elevate the risk numbers above the site-specific action levels.



Building 2630 - Dispatch, Storage, and Parking Area for Emergency Medical Units Wash Rack
 0 25 50 100 Feet

Current Use: Administrative and vacant lot

Current Status: A PA/SI is underway with a recommendation to collect 2 surface soil samples and analyze for herbicides, install 2 groundwater monitoring wells and analyze groundwater samples for VOCs, SVOCs, metals, TPH-DRO, TPH-GRO, herbicides, and pesticides.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.30 FGGM 96 (OU-46) – Outdoor Recreation Equipment Rentals WR, Building 2724

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996
 RFA 3rd Phase 1999
 Sampling Visits 1999 and 2001
 SI 2001
 PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, metals, TPH-DRO, TPH-GRO, herbicides, and pesticides

Media of Concern: Soil and groundwater

Site Location: Grid H3, located in the eastern portion of the installation, 700 feet north of the intersection of Mapes Road and Ernie Pyle Street.

Site Description: Building 2724 was constructed in the 1950s and used by the Directorate of Personnel & Community Activities for outdoor recreation equipment rental.

Four WRs and two associated OWS were located approximately 100 feet to the west-southwest of Building 2724. The WRs consisted of concrete basins that discharged into the two OWS. The OWS discharged into the hazardous waste storage shed, located in the parking lot. The WRs and OWS were removed and paved over with concrete in 1999-2000.

Previously, larger quantities of hazardous chemicals and petroleum products were used and stored within and outside the building, including motor and lubricating oil, anti-freeze, used oil, degreasers, and batteries.

Previous Studies: Over the course of previous investigations at this site, 4 surface soil, 18 subsurface soil, and 19 groundwater samples were collected and submitted for analysis. Based on a risk analysis of the analytical results, 2-methyl-4-chlorophenoxyacetic acid (MCPA), iron, aluminum, mercury, cobalt, manganese, arsenic, copper, and chromium elevate the risk numbers above the site-specific action levels.



Current Use: Outdoor Recreation Equipment storage

Current Status: A PA/SI is underway with a recommendation to collect 4 soil samples and analyze for VOCs, install 4 groundwater monitoring wells and analyze groundwater samples for metals, VOCs, herbicides, pesticides, TPH-GRO, and TPH-DRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.31 FGGM 96 (OU-46) – WR and Associated OWS, Building 2728

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996

RFA 3rd Phase 1999

SI 2001

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, metals, herbicides, and pesticides

Media of Concern: Soil and groundwater

Site Location: Grid H3, located in the eastern portion of the installation, 700 feet north of the intersection of Mapes Road and Ernie Pyle Street. The WRs associated with the building are located approximately 800 feet west of Ernie Pyle Street and 500 feet north of Mapes Road.

Site Description: Building 2728 (SWMU 148) was built in the 1950s and was formerly used as a military vehicle and equipment maintenance facility, which stored relatively small quantities of hazardous chemicals (motor and lubricating oil, anti-freeze, used oil, degreasers, and batteries). There are four WRs (SWMUs 89-92) and two OWS (SWMUs 87 & 88) that were removed and paved over with concrete in 1999 and 2000.

Previous Studies: Over the course of previous investigations at this site, 20 direct-push borings were completed; 4 surface soil, 20 subsurface soil, and 10 groundwater samples were collected and submitted for analysis. Based on a risk analysis of the analytical results, MCPA, MCPP, chloroform, and bromodichloromethane elevate the risk numbers above the site-specific action levels.



Current Use: Storage of outdoor recreational equipment/vehicles

Current Status: A PA/SI is underway with a recommendation to collect 2 surface soil samples and analyze for herbicides, install 2 groundwater monitoring wells and analyze groundwater samples for VOCs and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.32 FGGM 96 (OU-46) – Lab and Barracks Former Buildings 2810, 2811, and 2832

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996
SWMU Study 1996
PA/SI 2010-2014

Contaminants of Potential Concern: Metals

Media of Concern: Soil and groundwater

Site Location: Grid H3, located in the eastern portion of the installation, northeast of the intersection of Ernie Pyle Street and 14th Street.

Site Description: Former Building 2810 – Lab and 1941 Dayroom (Non-SWMU 6) was constructed in the early 1940s and has only been used for administrative purposes. A library moved here in the 1990s.

Former Building 2811 – Lab and 1941 Barracks (Non-SWMU 7) was constructed in the early 1940s. It was used as a barracks in the 1970s. The Army Dental Research Detachment moved into the building in the 1980s; the first floor was used as a dental research laboratory, and the second floor was administrative. All chemicals were used entirely, and the building did not generate waste.

Former Building 2832 – Administrative and 1941 Unknown (Non-SWMU 8) has been used solely for administration since its construction in the early 1940s and did not generate waste. The Army Dental Research Detachment moved into this building in the 1980s and used it for administrative purposes.

All of the buildings were demolished in 1999 or 2000.

Previous Studies: No soil or groundwater samples have been collected over the course of previous studies at this AOI.



Current Use: Grassy field

Current Status: A PA/SI is underway with a recommendation to collect 1 soil sample, install 1 groundwater monitoring well, and analyze soil groundwater samples for metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.33 FGGM 96 (OU-46) – Screen Repair Industrial Shop (SWMU 98), Building 3000

Regulatory Driver: CERCLA

Previous Environmental Investigations

- SWMU Study 1996
- Sampling Visit 2000
- Data Gap Investigation..... 2002
- PA/SI..... 2010-2014

Contaminants of Potential Concern: VOCs

Media of Concern: Groundwater

Site Location: Grid G2, Building 3000 is located in the northeastern portion of the installation, approximately 300 feet east of the intersection of 21st Street and Ernie Pyle Street.

Site Description: Building 3000 was identified as a SWMU because there is systematic waste discarded and contained at the facility (BCM, 1996). In addition there was potential of spillage from the materials stored in the parking lot. There were no spills or reported releases identified during the SWMU study (BCM, 1996). Freon recovery and disposal also occurs. The building was surrounded by pavement. This AOI was handling chemicals properly, they used secondary containment, and everything was on paved surfaces. No spills or leaks were reported and no signs of spills or leaks were noted during site visits.

Previous Studies: Over the course of previous studies at this AOI, nine surface soil samples (plus 1 duplicate surface soil sample) and 11 subsurface soil samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



Building 3000 - Maintenance Shop
0 25 50 100 Feet

Current Use: Administrative

Current Status: A PA/SI is underway with a recommendation to install 1 groundwater monitoring well and analyze groundwater samples for VOCs.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.34 FGGM 96 (OU-46) – 1941 Cold Storage (Non-SWMU 9), Building 4272

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996

SWMU Study 1996

PA/SI 2010-2014

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid G5, located in the southern portion of the installation northeast of the intersection of Rock Avenue and Leonard Wood Avenue.

Site Description: Building 4272 was used as a cold storage facility for the commissary from the early 1940s until 1994, and was a vacant warehouse at the time of the 1996 SWMU study. The building contained a Freon unit that was stored in a machine room. Freon 22 was used from 1981 to 1996; Freon 12 was used prior to 1981. All of the Freon has been drained from the refrigeration units. The 1996 SWMU study reported that any leaks of Freon or oils would have been contained within the building.

Building 4272 was not identified as a SWMU in the 1996 SWMU study. The SWMU study recommended NFA for this AOI.

Previous Studies: There have been no soil or groundwater samples collected at this AOI over the course of previous studies.



Building 4272 - Vacant Warehouse
0 25 50 100 Feet

Current Use: Vacant lot

Current Status: A PA/SI is underway with a recommendation to collect 1 surface soil sample and analyze for Freon.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.35 FGGM 96 (OU-46) – Former Hospital (SWMU 99), Building 4411

Regulatory Driver: CERCLA

Previous Environmental Investigations

- SWMU Study..... 1996
- Sampling Visit 1999
- Data Gap Investigation.....2002
- PA/SI.....2010-2014

Contaminants of Potential Concern: SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Groundwater

Site Location: Grid G4, in the southeastern portion of the installation, approximately 100 feet southwest of the intersection of McKay Street and Llewellyn Avenue.

Site Description: Building 4411 was formerly used as a hospital from 1926 to 1974. A 1,000-gallon heating oil UST is located beneath the porch on the southern side of the building. The exact management of waste from the hospital is unknown.

Previous Studies: Over the course of previous investigations at this AOI, 16 direct push borings were advanced around Building 4411; 5 surface soil, 13 subsurface soil, and ten groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic, mercury, and chromium elevate the risk numbers above the site-specific action levels.



Building 4411
0 25 50 100 Feet

Current Use: Administrative

Current Status: A PA/SI is underway with a recommendation to install 4 groundwater monitoring wells and analyze groundwater samples for SVOCs, TPH-DRO, TPH-GRO, and total metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.36 FGGM 96 (OU-46) – Motor Repair and Garage (SWMUs 101 and 102), Building 4587

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study	1996
Historic Aerial Photograph Study.....	1996
RFA 3 rd Phase.....	1999
SI	2001
PA/SI	2010-2014

Contaminants of Potential Concern: VOCs, metals, herbicides, and PCBs

Media of Concern: Groundwater

Site Location: Grid G4, located in the southern portion of the installation approximately 150 feet southeast of the intersection of Leonard Wood Avenue and Simonds Street.

Site Description: Building 4587 was used as a personal vehicle repair shop and was formerly used as a MP. An oil crusher and parts washer are located in Building 4587 for vehicle and equipment maintenance activities. The crushed filters are placed in 55-gallon drums. The used oil goes into a double-walled 800-gallon AST located outside of the east wall of the building. When the 55-gallon drums become full, the drums are turned into DRMO for disposal. The used oil and cleaner from the parts washer are also managed through the DRMO. An OWS is located in the southern end of Building 4587. The OWS accepts runoff from the floor drains within the building. Five former USTs were located at Building 4587. All five USTs were 550-gallon tanks that stored No. 2 fuel oil for heating the building.

Previous Studies: Over the course of previous investigations at this AOI, 6 surface soil samples, 7 subsurface soil samples, and 11 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic, MCPA, MCP, iron, and chromium elevate the risk numbers above the site-specific action levels.



Current Use: Administrative

Current Status: A PA/SI is underway with a recommendation to install 3 groundwater monitoring wells and analyze groundwater samples for VOCs, both total and dissolved metals, herbicides, and PCBs.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.37 FGGM 96 (OU-46) – Service Station and Past Vehicle Repair Shop (SWMU 103), Building 4680

Regulatory Driver: CERCLA
Previous Environmental Investigations
 SWMU Study 1996
 Historic Aerial Photograph Study 1996
 RFA 3rd Phase 1999
 SI 2001
 PA/SI 2010-2014
Contaminants of Potential Concern: VOCs, SVOCs, metals, and PCBs

Media of Concern: Groundwater
Site Location: Grid G4, located in the southern portion of the installation approximately 150 feet northeast of the intersection of Leonard Wood Avenue and Simonds Street.

Site Description: Building 4680 was used as an auto-detailing shop and gas station with paved parking, gas pump islands, and an AST enclosure. The AST enclosure was a membrane-lined concrete structure which provided fuel to dispenser islands throughout the AOI. At the time of the SWMU study the AOI contained a 500-gallon used oil tank, an OWS, and a non-operable oil filter crusher. There were 12 active gasoline pumps associated with the gasoline service station. Since 1985, the USTs were removed and replaced with ASTs. Personnel at Building 4680 at the time of the SWMU study thought that several USTs that were removed had been leaking fuel oil.

Previous Studies: Over the course of previous investigations at this AOI, 4 surface soil samples, 23 subsurface soil samples, and 25 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, chromium, naphthalene, arsenic, acrolein, benzene, and 1,2,4-trimethylbenzene elevate the risk numbers above the site-specific action levels.



Building 4680 - Gas Station and Detailing Shop
 0 25 50 100 Feet

Current Use: Automotive detailing shop
Current Status: A PA/SI is underway with a recommendation to install 5 groundwater monitoring wells and analyze groundwater samples for VOCs, SVOCs, metals, and PCB. An additional well is planned to confirm the presence of acrolein at GW078.
Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.38 FGGM 96 (OU-46) – WR and OWS Southeast of Former Building 8480

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study	1996
RFA 3 rd Phase	1999
SI	2001
Data Gap Investigation	2002
PA/SI	2010-2014

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid F5, located in the southwestern portion of the installation north of O'Brien Street.

Site Description: This AOI is comprised of a former wash rack (SWMU 111) which discharged wash water to an oil/water separator (SWMU 110), which in turn discharged to a sanitary sewer line south of the wash rack. The discharge water was treated at a wastewater treatment plant. This former wash rack and oil/water separator were located southeast of former Building 8480.

Previous Studies: Over the course of previous investigations at this AOI, 14 surface soil samples and 20 subsurface soil samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, MCPP elevates the risk numbers above the site-specific action levels.



Building 8480 - Military Vehicle and Equipment Storage
 0 25 50 100
 Feet

Current Use: Parking lot and grass areas.

Current Status: A PA/SI is underway with a recommendation to collect 1 subsurface soil sample and analyze for herbicides.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.39 FGGM 96 (OU-46) – Vehicle Maintenance and Former WR, Building 8485

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996
Historic Aerial Photograph Study 1996
RFA 3rd Phase 1999
SIs 2001 and 2002
PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, and PCBs

Media of Concern: Soil and groundwater

Site Location: Grid F5, in the southwest portion of the installation in the southeast quadrant of the intersection of O'Brien Road and Simonds Street.

Site Description: Building 8485 (SWMUs 115 and 116) was a MP and maintenance shop. A former WR (SWMU 116A) located west of Building 8485 was discontinued in 1994 and paved with concrete in 1999. The WR discharged wash water to the sanitary sewer, where it was treated at a sewage treatment plant.

A used oil AST was located on the north side of the building. A 2,000-gallon UST used to store No. 2 heating oil was formerly located on the eastern side of the building. It was removed and clean closed in 1989 and replaced by another 2,000-gallon heating oil UST that was removed and clean closed in 1999.

Previous Studies: A dark stained liquid (1970), vertical tanks (1943-1947), and possible dump/waste storage (1943) were identified in the EPA (1996) study.

Over the course of previous investigations at this AOI, 5 surface soil samples, 35 subsurface soil samples (plus 3 duplicates), 23 groundwater samples (plus 5 duplicates) were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, chromium, benzene, arsenic, naphthalene, 1,2,4-trimethylbenzene, ethylbenzene, iron, and toluene elevate the risk numbers above the site-specific action levels.



Building 8485 - Military Vehicle and Equipment Storage
0 40 80 160 Feet

Current Use: Parking lot.

Current Status: A PA/SI is underway with a recommendation to collect 4 surface soil samples, install 13 additional groundwater monitoring wells, collect groundwater samples, and analyze both the soil and groundwater samples for VOCs, SVOCs, metals, and PCBs. In addition, the MDE OCP is requesting further analysis for LPH.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.40 FGGM 96 (OU-46) – Maintenance Shop, Building 8486

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996
 SWMU study..... 1996
 RFA 3rd Phase 1999
 SI 2001
 PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, PCBs, TPH-DRO, and TPH-GRO

Media of Concern: Groundwater

Site Location: Grid F5, in the southwest portion of the installation southeast of the intersection of Grant Road and Simonds Street.

Site Description: Building 8486 (SWMUs 117 and 118) was constructed in 1950 and used as a military vehicle and equipment maintenance and repair shop.

Asphalt and concrete parking lots that contain several sheds used to house paints, oils, anti-freeze, and used oil are located west of Building 8486.

A used oil 800-gallon AST is present on the east side of Building 8486.

Two USTs were formerly present between the building and Grant Road. The tanks were used to store heating oil for the building's furnace. The 2,000-gallon tank was installed in 1979 and was removed in 1994. The 2,500-gallon tank was installed in 1995 and was removed in 1999.

Small quantities of hazardous chemicals have historically been used and stored in storage cabinets at designated storage areas at this AOI.

Previous Studies: Over the course of previous investigations at this AOI, 19 subsurface soil samples and 19 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, 1,2,4-trimethylbenzene, arsenic, naphthalene, and chromium elevate the risk numbers above the site-specific action levels.



Building 8486 - Motor Pool
 0 30 60 120
 Feet

Current Use: Maintenance

Current Status: A PA/SI is underway with a recommendation to install 5 groundwater monitoring wells and analyze groundwater samples for VOCs, SVOCs, total and dissolved metals, PCBs, TPH-DRO, and TPH-GRO. In addition, the MDE OCP is requesting further analysis for LPH.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.41 FGGM 96 (OU-46) – Former MP and WR (SWMU 121-128 and 149), Buildings 8549, 8550, and 8551

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study	1996
Historic Aerial Photograph Study.....	1996
RFA 3 rd Phase.....	1999
SI	2001
Project Summary Report.....	2003
PA/SI	2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, TPH-GRO, cyanide, and PCBs

Media of Concern: Soil and groundwater

Site Location: Grid F4, located in the southwest portion of the installation near the intersection of O'Brien Road and Simonds Street

Site Description: Building 8549 was constructed in the mid-1950s, served as a MP (SWMU 122) until the mid-1990s and as a biomedical maintenance area (SWMU 121) from 1994 to the late 1990s. Since then, it has been used as a practice hall and instrument storage for military musicians.

Building 8550 was constructed in the mid-1950s and used as a motor pool (SWMU 126) until December of 1993, when the 85th General Hospital Maintenance (SWMU 125) moved in.

Building 8551 was used as a vehicle maintenance shop (SWMU 149). The wash rack (SWMU 128) and oil/water separator (SWMU 127) were identified as SWMUs because there was systematic discharge of wash water to the oil/water separator (BCM, 1996).

Previous Studies: Over the course of previous investigations at this AOI, 3 surface soil samples, 36 subsurface samples (plus 1 duplicate sample), and 29 groundwater samples (plus 1 duplicate sample) were collected and analyzed. Based on a risk analysis of the analytical results, benzo(a)pyrene, cadmium, lead, arsenic, and chromium elevate the risk numbers above the site-specific action levels.



Buildings 8549 - 8550 - 8551
0 40 80 160 Feet

Current Use: Practice hall and instrument storage.

Current Status: A PA/SI is underway with a recommendation to collect 3 surface soil samples and analyze for VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO; collect 1 subsurface soil sample and analyze for SVOCs; install 6 groundwater monitoring wells, sample the wells and analyze the groundwater samples for VOCs, SVOCs, metals, TPH-DRO, TPH-GRO, cyanide, and PCBs.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.42 FGGM 96 (OU-46) – Wastewater Treatment Plant (SWMU 138), Building 9581

Regulatory Driver: CERCLA

Previous Environmental Investigations

- SWMU Study 1996
- Historic Aerial Photograph Study..... 1996
- RFA 3rd Phase..... 1999
- PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, metals, and pH

Media of Concern: Groundwater

Site Location: Grid E4 and E5, in the southwest portion of the installation, approximately 600 feet southwest of the intersection of State Routes 32 and 198.

Site Description: Building 9581 is a sewage treatment facility that was constructed in the late 1970s or early 1980s. Building 9581 contains a 4,000-gallon hydrochloric acid AST, a lime silo, a 4,000-gallon steel UST containing heating oil that was abandoned in November 2000, a 10,000-gallon steel UST containing diesel fuel that was abandoned in 1990, and multiple open-top, below-ground wastewater treatment tanks.

Previous Studies: Over the course of previous investigations at this AOI, 1 surface soil sample, 22 subsurface soil samples, and nine groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic and chromium elevate the risk numbers above the site-specific action levels.



Building 9581 - Wastewater Treatment Plant
 0 60 120 240
 Feet

Current Use: Sewage treatment facility.

Current Status: A PA/SI is underway with a recommendation to install 2 groundwater monitoring wells and analyze groundwater samples for VOCs, metals, and pH.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.43 FGGM 96 (OU-46) – Possible Vehicle Service Area A – 1943

Regulatory Driver: CERCLA

Previous Environmental Investigations
 Historic Aerial Photograph Study 1996
 PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Soil and groundwater

Site Location: Grid H4, located in the eastern portion of the installation, east of Ernie Pyle Street, west of Chisholm Avenue, south of 9th Street, and north of 8th Street.

Site Description: A possible vehicle service and staging area was identified at this location in the 1943, 1947, and 1952 aerial photographs (EPA, 1996). Staining was also noted in the 1943 aerial photograph. The circa 1952 land use map identifies 19 MPs on the installation, but it did not identify a MP at the location of Possible Vehicle Service Area A – 1943. According to the 1952 land use map, Buildings 2511 and 2517 were located in the northern portion of this AOI and Buildings 2504 and 2509 were located in the southern portion of this AOI. There is ample evidence to suggest that this AOI was not used to service vehicles.

Previous Studies: No previous sampling has been undertaken.



Current Use: Grass field and parking lot.

Current Status: A PA/SI is underway with a recommendation to sample soil and groundwater in the areas of past staining. Three soil and 1 groundwater sample (from 1 new groundwater monitoring well) should be collected and analyzed for VOCs, SVOCs, metals, TPH-DRO and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.44 FGGM 96 (OU-46) – Possible Vehicle Service Area B – 1943

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996
PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

Media of Concern: Soil and groundwater

Site Location: Grid H3, located in the eastern portion of the installation, north of Mapes Road and west of Ernie Pyle Street.

Site Description: A possible vehicle service and staging area was identified at this location in a 1943 aerial photograph (EPA, 1996). The EPA (1996) study did not identify stained soils or stressed vegetation in this area in any of the historic aerial photographs. According to the 1952 land use map, Building 2722 was located on the eastern edge of this AOI and Building 2720 was located in the southern portion of the AOI. By 1988, most of this AOI is tree covered. There is little evidence to suggest that vehicles were serviced at this AOI; it was probably used as a parking lot.

Previous Studies: No previous sampling has been undertaken. The EPA (1996) study did not identify stained soils or stressed vegetation at this location.



Possible Vehicle Service Area B -- 1943
0 100 200 400 Feet

Current Use: Tree and grass occupy this AOI.

Current Status: A PA/SI is underway with a recommendation to collect 3 surface soil samples, install 1 groundwater monitoring well, collect a groundwater sample, and analyze the soil and groundwater samples for VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.45 FGGM 96 (OU-46) – Former Incinerator Building – 1943 (21 ½ Street)

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996
EBS 1998
Comprehensive Site Assessment 1999
PA/SI 2010-2014

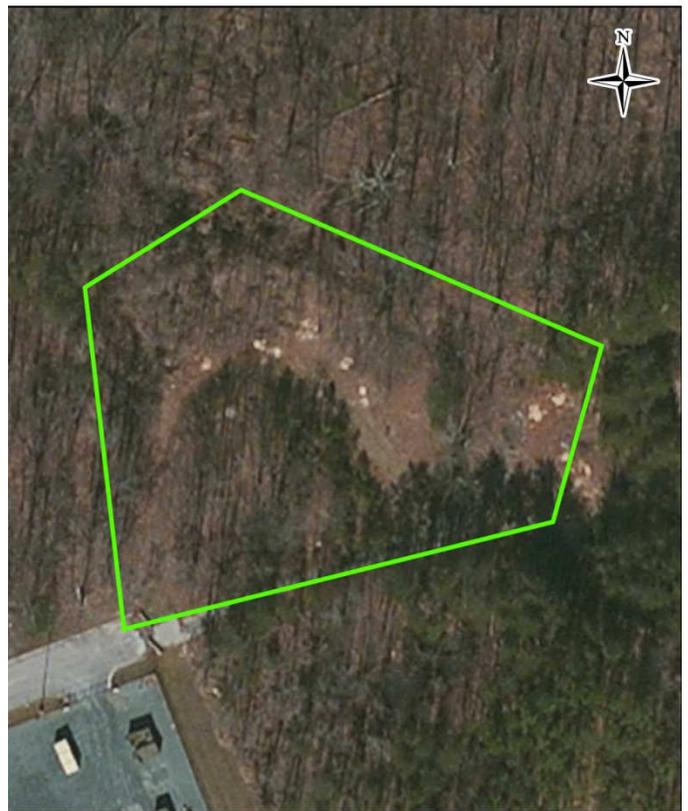
Contaminants of Potential Concern: metals and dioxins

Media of Concern: Soil and groundwater

Site Location: Grid H1 and H2, in the northeastern portion of the installation, 1,000 feet east of the intersection of 21½ Street and MD 175 (Annapolis Road).

Site Description: Former Incinerator Building – 1943 was identified as an AOI because a 1998 EBS identified this AOI. The incinerator was present from 1947 to 1975 (Versar, 1999). The EPA (1996) study of the installation did not identify this incinerator, stained soils, or stressed vegetation in this area in any of the historic aerial photographs. The outline of a building at this location is visible in the 1943 through 1977 historic aerial photographs (EPA, 1996).

Previous Studies: Over the course of previous investigations at this site, nine subsurface soil samples were collected. A review of historical aerial photographs suggests that the former incinerator may have been located west of the location sampled in the Comprehensive Site Assessment.



Former Incinerator -- 1943
0 30 60 120 Feet

Current Use: None/Vacant

Current Status: A PA/SI is underway with a recommendation to collect 5 surface and 5 subsurface soil samples to be analyzed for metals and dioxins, install 3 groundwater monitoring wells, and analyze groundwater samples for metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.46 FGGM 96 (OU-46) – Stained Soils along 3rd Street

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

Initial Response 2009

PA..... 2009

PA/SI 2010-2014

Contaminants of Potential Concern: VOCs, SVOCs, and metals

Media of Concern: Soil and groundwater

Site Location: Grid H5, in the southeast portion of the installation, along 3rd Street, between Chisholm Avenue and Pepper Road.

Site Description: Stained Soils Along 3rd Street is an AOI because on 9 March 2009, discolored soils with an unusual odor were encountered during trenching operations for a communications duct bank. The location is near former Building 2227, a former vehicle maintenance shop. Along a 30-foot section of the trench, there appeared to be areas of petroleum seepage from the trench wall at a depth of 3 feet. Approximately 160 feet of excavated soil was screened with a photoionization detector (PID).

Previous Studies: Over the course of previous investigations at this AOI, 8 subsurface soil samples (plus 1 duplicate sample) and 1 groundwater sample were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, di(2-ethylhexyl) phthalate, iron, arsenic, chromium, and manganese elevate the risk numbers above the site-specific action levels. Di(2-ethylhexyl) phthalate was detected above its MCL.



Stained Soils along 3rd Street
0 30 60 120 Feet

Current Use: Open field.

Current Status: A PA/SI is underway with a recommendation to collect 3 surface soil samples to be analyzed for VOCs, SVOCs, and metals; install 3 groundwater monitoring wells, and collect and analyze groundwater samples for VOCs, SVOCs, and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.1.19.47 FGGM 96 (OU-46) – Former Incinerator Site

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study..... 1996
Historical Records Review2006
Subsurface Soil Investigation2006
PA/SI 2010-2014

Contaminants of Potential Concern: Metals, dioxins, and furans

Media of Concern: Soil

Site Location: Grid G3, in the central part of the installation, north of Reece Road and west of the intersection of Reece Road and MacArthur Boulevard.

Site Description: This AOI was labeled “incinerator” on the 1922–1923 War Games Map (Anon., 1922) and is shown at the west end of Incinerator Road, west of the intersection of Portland Road and Jessup Road. On the 1922-1923 map, MacArthur Boulevard is identified as Jessup Road; the part of Reece Road that is east of Jessup Road is identified as Portland Road and the part that is west of Jessup Road is identified as Incinerator Road.

In a 1942 map of Fort Meade (685th Engineer Company, 1942), this site is identified as the “C.W. Gas Cham” and is shown at the same location. There is no legend identifying what “C.W.” stands for.

Map 4-6 of the Historical Records Review report (Malcolm Pirnie, 2006a) incorrectly locates the site northeast of Site M Parcel 9 at the end of Reece Road, west of Cooper Avenue. The EPA (1996) study of the installation did not identify this incinerator or stained soils or stressed vegetation in this area in any of the historic aerial photographs.

Previous Studies: Over the course of previous investigations at this AOI, 3 surface soil and 12 subsurface soil samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



Former Incinerator Site
0 25 50 100 Feet

Current Use: The AOI is currently developed with housing, Larkin Road, and grass cover.

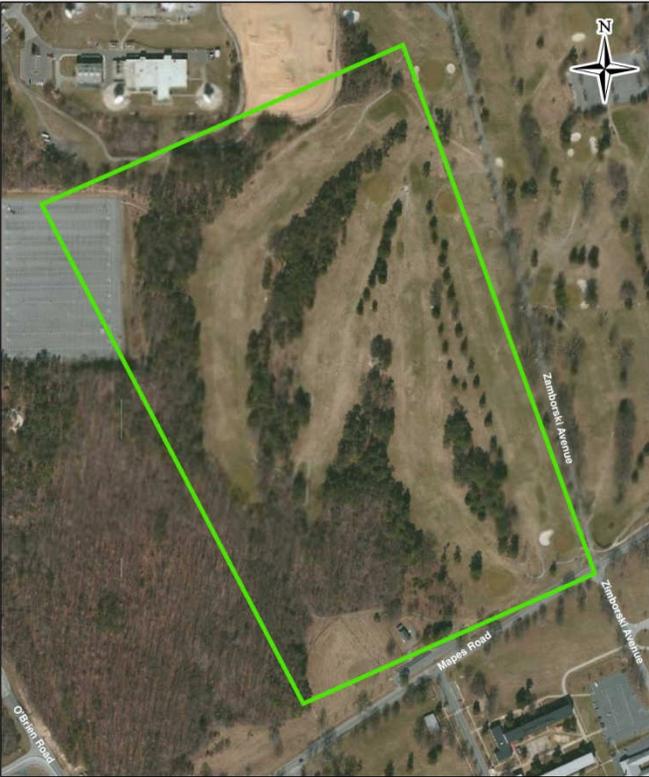
Current Status: A PA/SI is underway with a recommendation to collect 6 surface soil samples to be analyzed for dioxins, furans, and metals.

Cleanup/Exit Strategy: Collect and analyze the chemical data. Based on the results, the AOI will either require NFA or be moved forward into the RI phase of CERCLA.

2.2 Military Munitions Response Program Open Sites

2.2.1 FGGM 003-R (OU-40) – Former Mortar Range Munitions Response Site

2.2.1.1 FGGM 003-R-01 – Mortar Area MRS

<p>Regulatory Driver: CERCLA</p> <p>Previous Environmental Investigations</p> <p>Geophysical Survey 2004</p> <p>EBS 2007</p> <p>SI 2007</p> <p>RI 2008-2011</p> <p>FFS 2012</p> <p>PP 2012</p> <p>ROD 2012</p> <p>RD 2012</p> <p>Contaminants of Potential Concern: MEC</p> <p>Media of Concern: Soil</p> <p>Site Location: In Grid F4, it is located in the southern portion of the Munitions Response Area (MRA), extending from Mapes Road northwest.</p> <p>Site Description: This AOI consists of the approximately 291 acre former mortar range. The period of use for the Mortar Area MRS is estimated as the early 1920s to the early 1940s. Evidence supports that only practice mortar rounds were fired at the Mortar Area MRS. The firing point is estimated to be in the southwest corner of the Mortar Area MRS. Also, unused small arms ammunition was likely discarded at the MRS, as it was uncovered in ammunition boxes, but no evidence supports the use of small arms ammunition at this MRS.</p> <p>Previous Studies: Over the course of previous investigations at this site approximately 36 soil samples and 2 groundwater were collected and analyzed for selected metals and explosives in the Mortar Area MRS. NFA for MC was recommended.</p>	 <p>FGGM-003-R-01 - Mortar Range</p> <p>0 175 350 700 Feet</p> <p>Current Use: A secure DoD facility is currently under construction on the MRS.</p> <p>Current Status: The qualitative risk evaluation performed revealed a low probability for human receptors to encounter MEC on the MRS. The low probability result of this evaluation is compatible with current and determined or reasonably anticipated future use.</p> <p>Cleanup/Exit Strategy: An FFS has been developed that evaluates no action, LUCs, and full clearance. A PP has been developed and recommends LUCs as the preferred alternative.</p>
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2.2.1.2 FGGM 003-R-02 – Training Area MRS

Regulatory Driver: CERCLA

Previous Environmental Investigations

Geophysical Survey	2004
EBS.....	2004
SI	2007
RI	2008-2011
FFS	2012
PP	2012
ROD.....	2012
RD.....	2012

Contaminants of Potential Concern: MEC

Media of Concern: Soil

Site Location: In Grid F4, it is located in the northern portion of the Munitions Response Area (MRA), extending from Mapes Road northwest to Rockenbach Road. The Training Area MRS surrounds the Mortar Range boundary (see FGGM 003-R-01).

Site Description: This AOI consists of the 260-acre Training Area MRS where five munitions debris items were found, including practice grenades, an expended flare, and a small arms ammunition casings disposal pit. The practice grenades and expended flare are indicative of general troop training, and the small arms ammunition casing disposal pit is indicative of disposal.

Previous Studies: Over the course of previous investigations at this site approximately 20 soil and 6 groundwater samples were collected in the Training Area MRS and analyzed for selected metals and explosives. NFA for MC was recommended.



FGGM-003-R-02 - Training Area
 0 350 700 1,400
 Feet

Current Use: A Secure DoD Facility is currently under construction on the majority of the MRS.

Current Status: The qualitative risk evaluation performed revealed a low probability for human receptors to encounter MEC on the MRS. The low probability result of this evaluation is compatible with current and determined or reasonably anticipated future use.

Cleanup/Exit Strategy: An FFS has been developed that evaluates no action, LUCs, and full clearance. A PP has been developed and recommends LUCs as the preferred alternative.

2.2.2 FGGM 007-R-01 (OU-44) – Inactive Landfill 2 – Tipton Army Airfield

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA.....	1989
SI.....	1991
RI.....	1998
DD Safety Precautions.....	1998
ROD.....	1999
LTMP.....	2001
Maintenance Inspection Reports.....	yearly
MMRP Historical Records Review.....	2006
MMRP SI.....	2007

Contaminants of Potential Concern: MEC

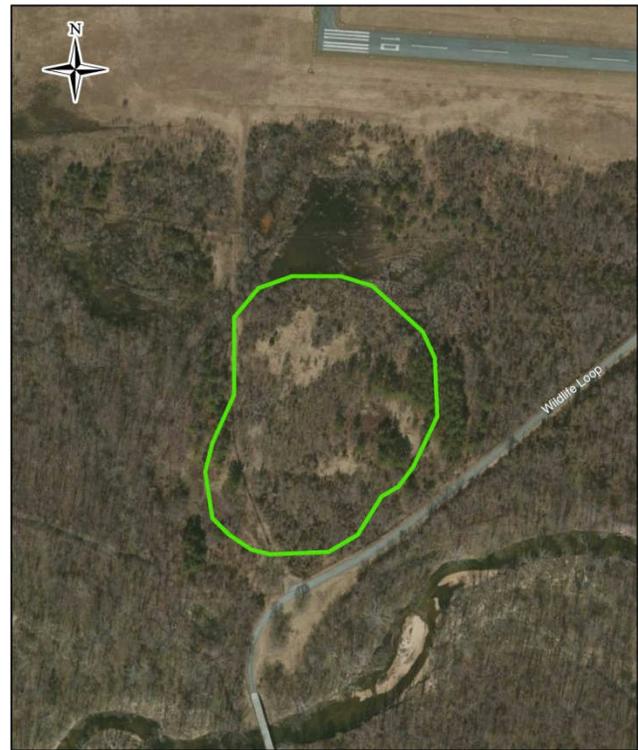
Media of Concern: Soil and groundwater

Site Location: Grid E6, east of State Route 198 and south of State Route 32 on the southern portion of the Tipton Army Airfield on approximately 10 acres of land north of New Tank Road (now Wildlife Loop).

Site Description: FGGM 31 is listed as Inactive Landfills (IALs) 2 and 3 in the AEDB-R. IAL2 and IAL3 are discussed separately in this SMP because they are funded under separate programs. IAL3 is a BRAC site. IAL2 was part of the BRAC Tipton Army Airfield parcel but was retained by the Army. IAL2 is an active Army site funded under the IRP. Information about IAL2 can be found under the IRP section (section 2.1.8) of the SMP

IAL2 was initially operated as a soil borrow area starting around 1938. Sometime after 1952 the area was operated as an unlined rubble disposal area that reached its maximum extent by 1963. Continued disposal activity occurred after 1980 in the northern portion of IAL2 where graded and disturbed areas are visible in 1986 aerial photographs. During the RI fieldwork, piles of rubble (brush, concrete, and asphalt debris) which appear to be of more recent origin, were observed in a marshy area on the north side of IAL2.

The site could not be cleared of ordnance due to large amounts of rubble debris and wetlands. This site is currently in the MMRP.



FGGM 31 - Inactive Landfill 2
0 150 300 600 Feet

Previous Studies: Over the course of previous investigations, a fence was constructed around IAL2. During the 2010 inspection, the fence was intact, but thick vegetation was observed on approximately 60% of the fence. The 2010 Annual Maintenance Report recommended to continue inspection, repair the north gate, clear vegetation from the fence line, remove downed trees, and replace faded signs.

Current Use: Grass and trees

Current Status: Groundwater is covered under FGGM 31 and is currently monitored under a 1999 ROD. A maintenance inspection of the fence and signage surrounding IAL2 is conducted annually. Vegetation clearing along the perimeter fence, fence repair, and culvert clearing were conducted in 2012.

Cleanup/Exit Strategy: Future work includes annual maintenance inspections as indicated in the schedule in Section 3. Maintenance, if required, will be conducted as recommended in the annual reports.

2.3 Base Realignment and Closure Open Sites

2.3.1 FGGM 10 (OU-8) – Inactive Landfill 1

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA.....	1989
SI	1991
RI	1998
DD Safety Precautions.....	1998
ROD.....	1999
LTMP	2001
5 year reviews.....	2005, 2011
LTM	2004-2010

Contaminants of Potential Concern:

Arsenic, iron, manganese, and MEC

Media of Concern: Groundwater

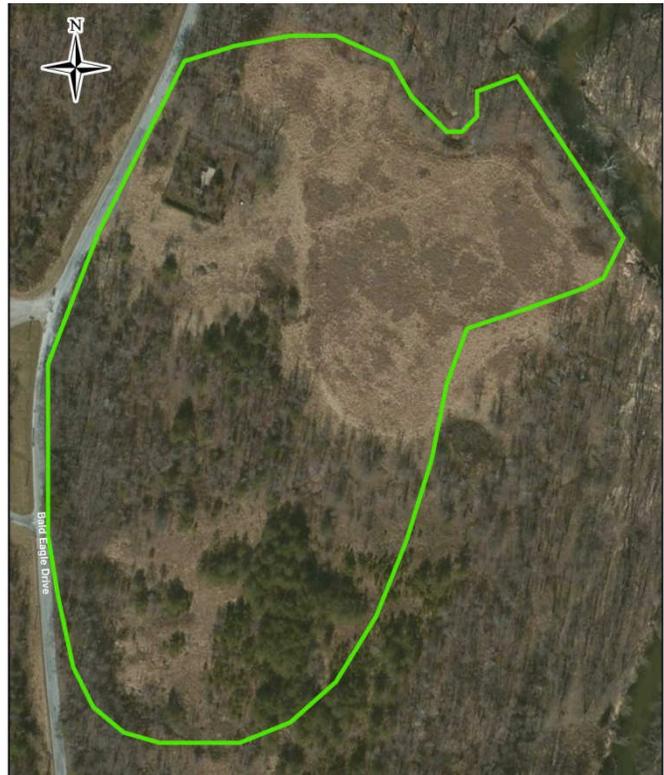
Site Location: Grid E5, located east of State Route 198 and south of State Route 32, in the western portion of the Tipton Airfield Parcel (TAP), between Bald Eagle Drive and the Little Patuxent River.

Site Description: IAL1 was used as an unlined sanitary landfill from approximately 1950 to 1964. No information has been found indicating the types of material disposed of at this location. A small concrete blockhouse, formerly used as a communications building, is present on the northwest corner of IAL1.

Previous Studies: Over the course of previous investigations at this site an earthen MEC safety cap was installed over IAL1.

Current Use: Grass and trees

Current Status: Land use controls (LUCs) have been established and enforced that prohibit conducting any surface or subsurface excavations, digging, well drilling, or other disturbances of soil, or areas below paved surfaces. Annual LTGM has been implemented. The Revised Draft Final Tipton



FGGM 10 - Inactive Landfill 1 - Tipton Army Airfield
 0 75 150 300 Feet

Airfield Parcel (TAP) Explanation of Significant Difference (ESD) will be submitted in October 2012. The ESD will modify the June 1999 ROD to address 1) the need for sweeps or ordnance; 2) appropriate disposal of ordnance if discovered, and 3) land use control requirements. The Army plans to submit a TAP LUC Remedial Design (RD) in November 2012 to implement, maintain, and enforce the LUCs at IAL1 and incorporate them into the CERCLA process.

Cleanup/Exit Strategy: Continue the corrective measures O&M (LUCs with LTGM on an annual basis) per the results of the September 2011 TAP 5-Year Final Review. Inspection and monitoring of the LUCs will be implemented and documented in accordance with the LUC RD.

2.3.2 FGGM 20 (OU-15) – Ordnance Demolition Area

Regulatory Driver: CERCLA

Previous Environmental Investigations

SI 1994
 Sampling Visits 1996, 1999, 2000, 2002, 2004
 RI/FS 2002
 FFS 2002
 LTM 2004-2010

Contaminants of Potential Concern:

Cyclotrimethylene trinitramine (RDX), TNT, amino-DNTs, chlorinated VOCs, cadmium, MEC, and Monitored Natural Attenuation (MNA) parameters

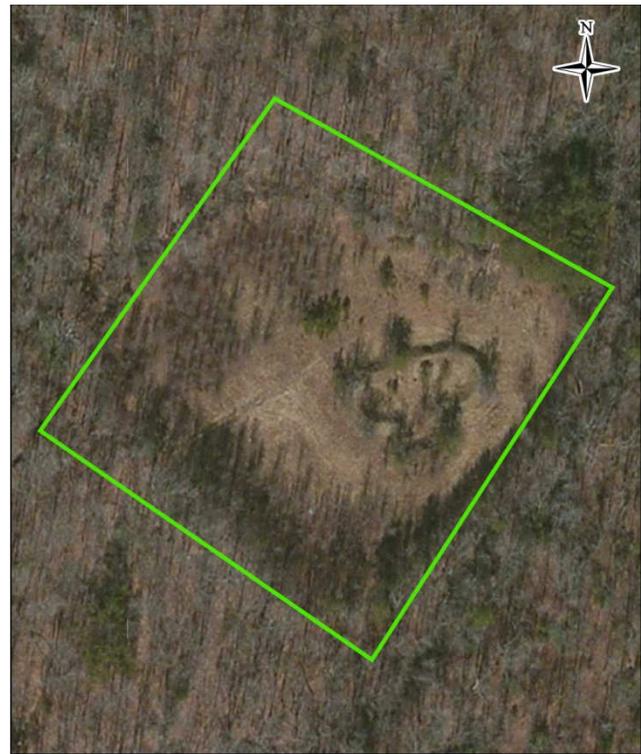
Media of Concern: Groundwater

Site Location: Grid F10, in the southern part of the BRAC parcel, in an otherwise undeveloped wooded area south of Wildlife Loop Road.

Site Description: This Ordnance Demolition Area (ODA) covers 2.5 acres and is bounded by an outer berm, approximately 8 feet high, constructed of rubble and earthen material. The area outside the berm is heavily forested and contains wetlands to the east and south. An inner berm, constructed similarly to the outer berm, bounds the demolition pit. The demolition pit area inside the inner berm is approximately 40 feet by 80 feet and is predominantly filled with sand.

Previous Studies: Over the course of previous investigations at this site soil and groundwater samples were collected for the RI, FFS, and LTM.

Current Use: Inactive



FGGM 20 - Ordnance Demolition Area
 0 40 80 160 Feet

Current Status: The Decision Document of 2005 selected MNA as a remedial alternative in conjunction with Institutional Controls that limit the use of groundwater until Remedial Action Objective (RAOs) have been met. The Army has rescinded the 2005 Decision Document and submitted a Final Proposed Plan in FY11. A Final ROD was submitted in September 2011. The Army will submit a LUC RD in August 2012 to better implement, maintain and enforce LUCs at the ODA and incorporate them into the CERCLA process.

Cleanup/Exit Strategy: Eight shallow wells will be sampled until compliance with RAOs has been established. Future work includes continuing the corrective measures O&M in accordance with the approved ROD. In addition, 5-year reviews will be implemented and documented in accordance with the LUC RD. Inspection and monitoring of the LUCs will be documented once the LUC RD is approved.

2.3.3 FGGM 31 (OU-17) – Inactive Landfill 3

Regulatory Driver: CERCLA

Previous Environmental Investigations

Enhanced PA	1989
Superfund Record of Decision	1998
RI	1998
ROD	1999
5 year reviews	2005, 2011
LTM.....	2004-2010

Contaminants of Potential Concern: Benzene, 1122 TCA, CCl4, cis-1,2-DCE, VC, As, Fe, Mn and MEC

Media of Concern: Groundwater

Site Location: Grid E5 and F5, in the Tipton Airfield Parcel (TAP), in the eastern portion of the runway area.

Site Description: FGGM 31 includes IAL2 and IAL3. IAL2 is an active Army site, funded under the IRP. Information about IAL2 can be found under the IRP section (section 2.1.10) of the SMP. IAL3 is a BRAC site and is discussed here. IAL3 is 78-acres and originally used as a sand borrow area. During the late 1940s and 1950s, the area was used as a sanitary and “leaf-dump” landfill. The Tipton Army Airfield was constructed over the fill area in 1963. Landfill materials were removed from beneath all runway construction areas for structural reasons, but landfill materials are still present in areas subjacent to the runways.

Previous Studies: The Decision Document (U.S. Army, 1998) stated that surface sweeps will be performed at years 3 and 7, and every 5 years thereafter at the landfill to remove any potential MEC that might migrate to the surface. Ordnance sweeps were conducted in 2001, 2006, and 2011 at the IAL3.



Current Use: Runway and grassy areas.

Current Status: The ROD requires 5-year reviews, and LTGM. The Revised Draft Final TAP ESD will be submitted in October 2012. The ESD will modify the December 1998 and June 1999 RODs for IAL3 to address 1) the needs for sweeps of ordnance; 2) appropriate disposal of ordnance if discovered; and 3) land use control requirements. The Army plans to submit a TAP LUC RD in November 2012 to implement, maintain, and enforce the LUCs at IAL3 (i.e., incorporate the LUCs into the CERCLA process).

Cleanup/Exit Strategy: Continue the corrective measures O&M in accordance with the June 1999 ROD. Inspection and monitoring of the LUCs will be implemented and documented in accordance with the LUC RD.

2.3.4 FGM 81 (OU-33) – Clean Fill Dump

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA..... 1989

SI..... 1992

RI.....1992 and 1998

Action Memorandum..... 2000-2001

PP..... 2000

ROD 2000

LTMP..... 2002

5-Year Review2009 and 2011

LTM 2004-2010

Contaminants of Potential Concern: VOCs, metals, and MEC

Media of Concern: Groundwater

Site Location: In Grids G7 and H7, in the southeastern portion of the BRAC parcel along Boundary Road. The Clean Fill Dump (CFD) covers approximately 13 acres and is partially within the boundaries of the Firing Range 9 downrange fan.

Site Description: The CFD was used approximately from 1972 until 1985 for the disposal of miscellaneous debris. Because the property has not yet been transferred to the DOI, this site is separate from FGM 002-R-01.

Previous Studies: Previous studies have resulted in a ROD and LTMP with 5-year reviews.

Current Use: None, this AOI is covered in grass and trees.



FGM 81 - Clean Fill Dump
0 60 120 240 Feet

Current Status: The ROD (U.S. Army, 2000b) identified the selected remedial alternative for the CFD OU (U.S. Army, 2000a) as “NFA with monitoring.” The Lower Patapsco aquifer is monitored on an annual basis. The ROD incorporates the 2000 *Action Memorandum Safety Precautions to be taken at Clean Fill Dump*, which includes provisions for residential use restrictions, groundwater use limitations, and UXO issues (Army, 2000b). MEC LUCs for the Military Munitions Response Program (MMRP) portion of the CFD will be addressed under the LUC RD for the HEI Area (FGM 002-R-01).

Cleanup/Exit Strategy: Continue the corrective measures O&M (LUCs with LTGM on an annual basis) per the results of the September 2011 CFD Final 5-Yr Review.

2.3.5 FGM 85 (OU-35) – MEC Tipton Army Airfield

Regulatory Driver: CERCLA

Previous Environmental Investigations

ROD..... 1999
 Historical Records Review 2006
 5 year review..... 2011

Contaminants of Potential Concern: MEC

Media of Concern: Soil and groundwater

Site Location: Grid E5, east of State Route 198 and south of State Route 32.

Site Description: This AOI is comprised of sites HHA, Fire Training Area (FTA), IAL1, IAL2, and IAL3. It is also bisected by the Little Patuxent River.

Previous Studies: Over the course of previous investigations at this site, an earthen MEC safety cap was installed over IAL1, a fence is installed and maintained around IAL2, and surface sweeps for MEC have been conducted in IAL3.

Current Use: Airfield



FGM 85 - UXO Tipton Army Airfield
 0 600 1,200 2,400 Feet

Current Status: Annual inspections of the earthen cap and annual sweeps of a portion of the Little Patuxent River are conducted. 5-year reviews are conducted, as well as LTM inspections of IAL1 and IAL2, and MEC sweeps of the Little Patuxent River and IAL3. The TAP Revised Draft Final Explanation of Significant Difference (ESD) will be submitted in October 2012. The Army will submit a TAP LUC RD in November 2012 to better implement, maintain, and enforce the MEC LUCs and incorporate them into the CERCLA process.

Cleanup/Exit Strategy: MEC sweeps and inspections will continue for the foreseeable future. The river sweeps will continue to be evaluated annually. As stated above, the Army will submit a TAP LUC RD which will clearly identify the MEC LUCs requirements to ensure the continued protectiveness of the MEC removal action at TAP. Inspection, monitoring, and documentation procedures will be incorporated into the CERCLA process for the TAP.

2.3.6 FGGM 94 (OU-37) – Trap and Skeet Range 17

Regulatory Driver: CERCLA

Previous Environmental Investigations

- Ordnance Survey1995
- Site-Wide Groundwater Study 1999
- Human Health Risk Assessment/Ecological Risk Assessment2004
- Statement of Work for RI.....2008
- Draft RI/FS.....2011

Contaminants of Potential Concern: Arsenic, lead, copper, and MEC

Media of Concern: Soil

Site Location: Grid D7, in the central portion of the Patuxent Research Refuge-North Tract (PRR-NT).

Site Description: This AOI is comprised of the remnants of trap and skeet ranges. The skeet range was present as early as 1965, and the trap range was present as early as 1984. Features that were present include a high house, low house, cement walkways, and a rather heavily forested area.

Previous Studies: Over the course of previous investigations at this site: 74 XRF samples for Pb, As, Cu, and 10 lead shot samples were collected for analysis during the 2004 HHRA/ERA study. 237 samples were collected for Fe, As, Pb and Cu and 110 lead shot samples were collected for analysis for the 2011 draft RI/FS.



FGGM 94 - Trap and Skeet Range 17
0 150 300 600 Feet

Current Use: Unused, grass and trees covered.

Current Status: An RI/FS is currently underway to determine human health and ecological risk per CERCLA, the National Contingency Plan (NCP), and Army procedures. The Army, EPA, and MDE agreed in January 2011 to amend the RI/FS Work Plan in FY12 to collect additional soil samples for PAHs and nitroglycerin. The Army intends to finalize the RI/FS in FY13.

Cleanup/Exit Strategy: Future work includes preparing a Proposed Plan and ROD in FY13. Remedial Design will occur in FY13. Remedial Construction will occur in FY14.

2.3.7 FGGM 001-R-01 (OU-38) – Clean Fill Dump

Regulatory Driver: CERCLA

Previous Environmental Investigations

- PA..... 1989
- SI..... 1992
- RI.....1992 and 1998
- Action Memorandum..... 2000-2001
- PP..... 2000
- ROD 2000
- LTMP..... 2002
- 5-Year Review 2011
- LTM Report..... 2004-2011

Contaminants of Potential Concern: MEC

Media of Concern: Groundwater

Site Location: In Grids G7 and H7, located in the southeastern portion of the BRAC parcel along Boundary Road. The Clean Fill Dump (CFD) covers approximately 13 acres and is partially within the boundaries of the Firing Range 9 downrange fan.

Site Description: The CFD was used from approximately 1972 until 1985 for the disposal of miscellaneous debris. Because the property has not yet been transferred to the DOI, this AOI is separate from FGGM 002-R-01.

Previous Studies: Previous studies have resulted in a ROD and Long Term Monitoring Plan (LTMP) with 5-year reviews.

Current Use: None, this AOI is covered in grass and trees.



FGGM 81 - Clean Fill Dump
0 60 120 240 Feet

Current Status: The ROD (U.S. Army, 2000b) incorporates the Action Memorandum (July 2000) which addresses the risks related to MEC at the CFD and protects human health and the environment. The Action Memorandum includes the establishment and enforcement of MEC land use restrictions.

Cleanup/Exit Strategy: The Army intends to transfer the property to DOI in FY13. After transfer, FGGM 001-R-01 will be administratively closed and MEC related work at the CFD will be associated with FGGM 002-R-01 - High Explosive Impact and Disposal (HEI) Area. A PP and ROD, and will be submitted in FY13 for the HEI Area to better enforce and maintain the existing MEC LUCs at the PRR-NT parcel, which includes the CFD OU. Once the HEI Area ROD is approved, the Army will submit a LUC RD.

2.3.8 FGGM 002-R-01 (OU-39) – High Explosive Impact and Disposal Area

Regulatory Driver: CERCLA

Previous Environmental Investigations

- Ordnance Survey 1992-1993
- Engineering Evaluation 2001
- MEC Survey 2001
- MEC LUC Action Memo 2001

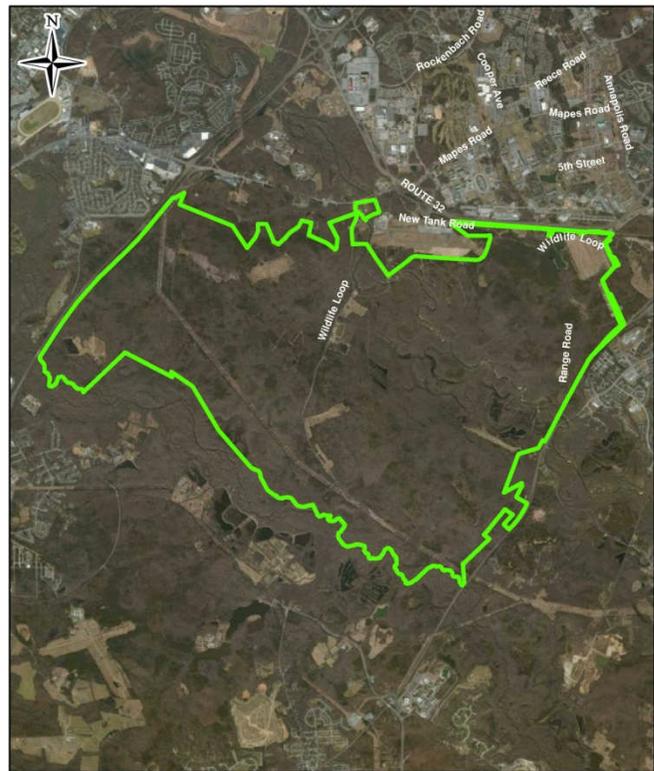
Contaminants of Potential Concern: MEC and MC

Media of Concern: Soil

Site Location: In Grids B5-H5, A6-I6, A7-H7, C8-G8, C9-G9, D10-G10; FGGM 002-R-01 consists of the approximately 8,100-acre Patuxent Research Refuge-North Tract (PRR-NT), south of Fort Meade and the Tipton Army Airfield parcel.

Site Description: This AOI consists of the PRR-NT, which is composed of two areas, one totaling 7,600 acres and the other 500 acres. Both areas were transferred to the DOI in the early 1990s. Numerous ordnance and explosive (OE) training and MEC items were found in this tract during site investigations. The potential munitions suspected on the PRR-NT are representative of troop training and fighting using live and practice items designed to simulate a service item in weight and ballistic properties. These items may be inert or have a small quantity of explosive filler.

Previous Studies: Over the course of previous investigations at this site, surveys were conducted to locate, identify, and remove MEC located on the surface and within a depth of 6-inches below ground surface. A Non-Time Critical Removal Action was completed for 24 areas located within the PRR-NT identified by the U.S. Fish and Wildlife Service (USFWS) as high traffic areas.



FGGM-002-R-01 - High Explosive Impact and Disposal Area
 0 2,500 5,000 10,000 Feet

Current Use: Wildlife refuge.

Current Status: A 2001 Action Memorandum selected LUCs with surface and subsurface clearance to depth in selected areas.

Cleanup/Exit Strategy: Continue measures outlined by the LUCs, including the education of workers and recreational users regarding potential residual OE hazards that may be associated with the property and identification of proper notifications if any OE is encountered. The Army will develop a PP/ROD for the HEI Area in FY13. A LUC RD will also be developed in FY13 to better enforce and maintain the existing MEC LUCs. Inspection, monitoring, and documentation procedures will be incorporated into the CERCLA process for the HEI Area.

2.4 Unassigned Open Sites

2.4.1 6-Acre Little Patuxent River Site

Regulatory Driver: CERCLA

Previous Environmental Investigations

ECP Final.....2011

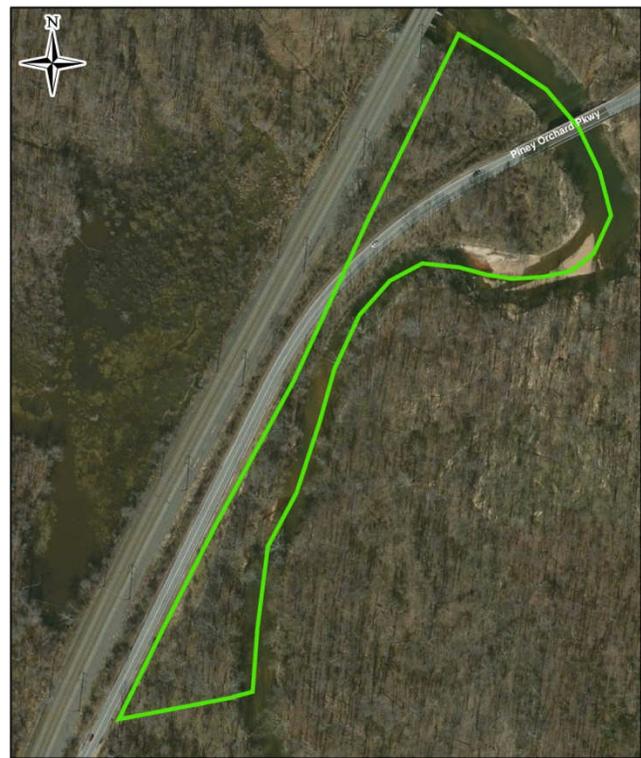
Contaminants of Potential Concern: None

Media of Concern: None

Site Location: Grids G8 and H8, adjacent to the southeast corner of the PRR-NT, separated by railroad tracks.

Site Description: This AOI is comprised of undeveloped land. The Patuxent Road traverses the site. There is no indication that the site is currently or has been used as an operational range due to its location.

Previous Studies: There has been no sampling by previous studies.



6-acre Little Patuxent River Site
0 100 200 400 Feet

Current Use: Undeveloped land.

Current Status: A Final ECP was completed in FY11 and approved by regulatory agencies. A Record of Environmental Consideration, Finding of Sustainability of Transfer, and Decision Report will be completed in FY13 and the property will be transferred to Anne Arundel County.

Cleanup/Exit Strategy: NFA is recommended for this AOI.

2.4.2 Off-Post Groundwater Investigation--Nevada Avenue Area

Regulatory Driver: CERCLA

Previous Environmental Investigations

Interim Measures 2009-2011

Groundwater Investigation 2011-2013

Contaminants of Potential Concern: VOCs

Media of Concern: Groundwater

Site Location: The area surrounding Nevada Avenue, Odenton, MD.

Site Description: The Nevada Avenue Area is comprised of the area surrounding the one private drinking water well on Nevada Avenue, in Odenton, with a PCE concentration recorded above the MCL in 2009. This area contains existing and planned monitoring wells in both on- and off-post areas. The area is approximately 0.9 mile in radius.

Previous studies: Interim Measures activities began in June 2009 to investigate groundwater contamination identified in MW-125d/123s and MW-126d/124s, along the southeastern boundary of FGGM, and are ongoing. As required by the EPA, during the Interim Measures activities, 62 private wells were sampled within a 1-mile radius of MW-125d/123s and MW-126d/124s. PCE near or exceeding the EPA maximum contaminant level (MCL), was detected in 3 private wells on Nevada Avenue. Because the Nevada Avenue Study Area is not projected downgradient of MW-125d/123s and MW-126d/124s and their associated known or suspected sources on FGGM, the PCE detected in the samples collected from this area are concluded to be associated with a separate source area. Other VOCs, such as trichloroethene, cis-1,2-dichloroethene, total xylenes, mp-xylene, and toluene, were also detected, but at levels below the EPA MCL; therefore, PCE was determined to be the primary contaminant of concern for the investigation.



Current Use: Residential, light industrial, commercial.

Current Status: A groundwater investigation is ongoing with field activities scheduled to begin in 2012. Five deep monitoring wells and 2 shallow monitoring wells will be installed within the Study Area. Two rounds of groundwater sampling will be conducted at each of these wells. Nineteen existing monitoring wells will be gauged to determine groundwater flow direction. Monthly sampling of 3 private wells (ongoing since 2009) will continue throughout the investigation. Bottled water service that began to Odenton residents in 2009 is also continuing.

Cleanup/Exit Strategy: Perform groundwater investigation to determine if the contamination is emanating from Fort Meade. Monitoring will continue throughout the investigation and beyond depending upon the outcome of the investigation. An exit strategy will be determined based upon the outcome of the investigation.

2.5 Installation Restoration Program Sites Designated for NFA

2.5.1 FGGM 03 (OU-6) – Water Treatment Plant, Building 8688 (SWMUs 129 and 130)

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA1980-1982
Interim Removal Action (IRA)1994
SWMU Study.....1996
Sampling Visits.....1999
SI.....2001
PA/SI.....2010-2014

Contaminants of Potential Concern: None identified

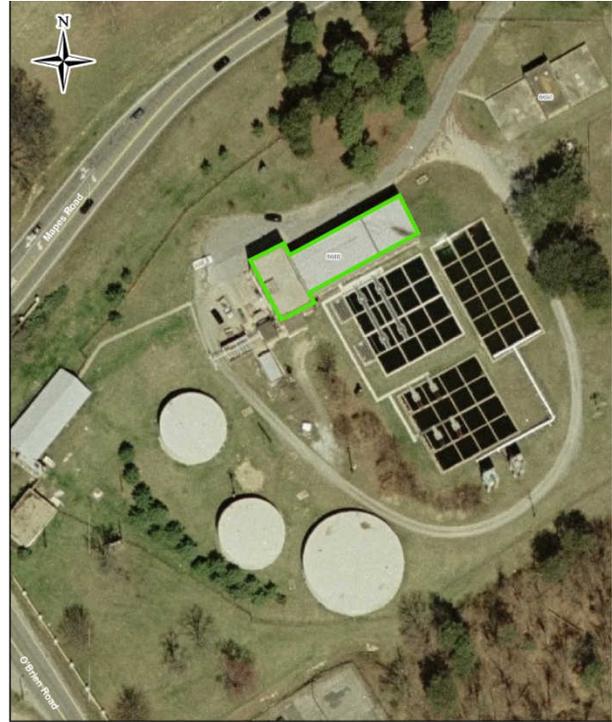
Media of Concern: None identified

Site Location: Grid F4, in the southwestern portion of the installation at the southeast corner of O'Brien Road and Mapes Road.

Site Description: Building 8688 – OU-6 (SWMUs 129 and 130) was constructed in 1941 and operated as a water treatment plant. The facility stores and uses lime and chlorine. An on-site laboratory stores acids and buffers for test purposes.

Building 8688 was identified as a SWMU (BCM, 1996) because there is routine discharge of waste to the sanitary sewer.

Previous Studies: Over the course of previous investigations at this site, 3 surface soil samples (plus 1 duplicate sample); and 9 subsurface soil samples were collected and analyzed. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



FGGM 03 - Building 8688 - Water Treatment Plant
0 40 80 160
Feet

Current Use: Water treatment plant.

Current Status: On 16 July 2012, the EPA concurred that analytical results indicate that no CERCLA release has occurred at this AOI. This AOI is closed with respect to CERCLA.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.2 FGGM 05 (OU-2) – Troop Boiler Plant

Regulatory Driver: CERCLA

Previous Environmental Investigations

Evaluation of Groundwater System..... 1996
Groundwater Monitoring 2001
Well Removal/Replacement..... 2002
Groundwater Sampling Event 2008
Site Model and Assessment Report..... 2008

Contaminants of Potential Concern: Benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tert-butyl ether (MTBE), naphthalene, caustic soda, sodium sulfite, phosphates, sodium hydroxide

Media of Concern: Soil and groundwater

Site Location: Grid F5, in the southwestern portion of the installation south of Simonds Street and east of Grant Road.

Site Description: Former Building 8481 (SWMU 112/113) was constructed in the 1940s as a boiler plant fueled by coal and then converted to fuel oil in the 1960s. This AOI also includes OWS-14 and WR-14 (SWMU 114), a storage shed (no building number) used to store flammable material, nine USTs, and one 500-gallon diesel fuel tank used for the emergency generator.

In 1991, a 1,500-gallon waste oil UST and a 20,000-gallon No. 2 fuel oil tank failed precision testing. The tanks were excavated and it was determined that they had been leaking for several years.

Previous Studies: Over the course of previous investigations at this site, 29 MWs were installed, a recovery system to remove floating and dissolved product was installed and operated from 1993 to 1997, and a solar-powered oil removal skimmer system was operated from 2001 to 2003. Groundwater sampling from 8 wells occurred in March, April, August, and October 2008, and four BioSok® booms were inserted into MWs.



FGGM 05 - Troop Boiler Plant
0 25 50 100
Feet

Current Use: Unknown/designated as “industrial/installation support” in May, 2005.

Current Status: On December 9, 2009, MDE Oil Control Program issued a Notice of Compliance for FGGM 05 based on site conditions meeting site remedial objectives and seven MDE Maryland Environmental Assessment Technology risk factors.

Cleanup/Exit Strategy: NFA is required for this AOI.

2.5.3 FGM 14 – Building 6527 Control Hazardous Substance Storage Facility

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA.....1980-1982

SI.....1980-2011

SWMU Study 1996

Hazardous Waste Closure Report 1999

Sampling Visit..... 2000

Data Gap Investigation 2002

PA..... 2011

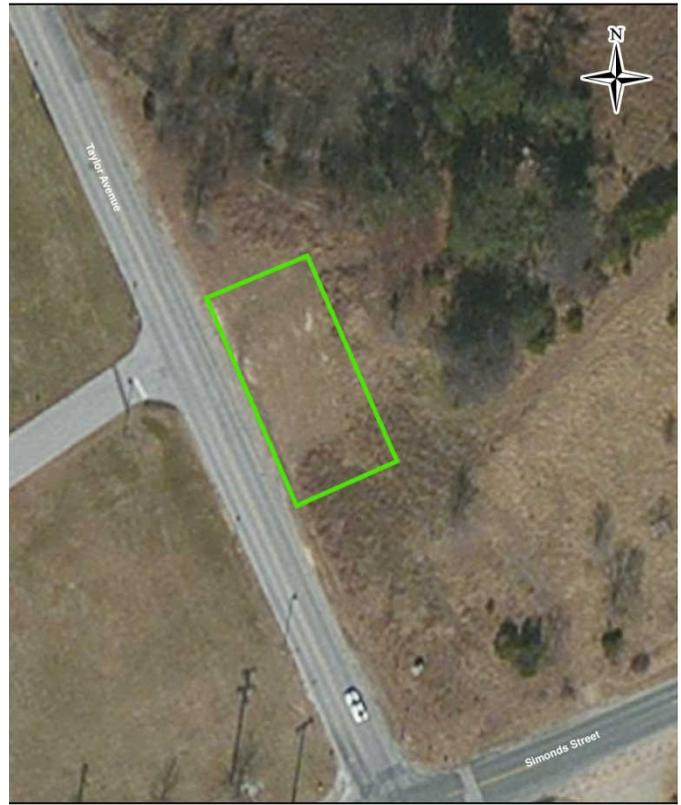
Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid F4, in the southern portion of the installation on Taylor Avenue between Simonds and MacKall Streets.

Site Description: Former Building 6527 (SWMU 104/OU-11) was used as a short-term (90-day) storage facility for hazardous and non-regulated chemicals before handling and shipping for offsite disposal. The facility handled wastes from the PCB removal program and also accepted paints, oils, oil filters, antifreeze, and fluorescent lights and ballast. The building was demolished in the late 1990s.

Previous Studies: Over the course of previous investigations at this AOI, 20 surface soil samples and 4 subsurface soil samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels. Building 6527 obtained clean closure in 1999.



Building 6527 - Control Hazardous Substance Storage Facility

0 25 50 100 Feet

Current Use: Grass and trees occupy this AOI.

Current Status: On 5 October 2011, the EPA concurred that analytical results indicate that no CERCLA release has occurred at this AOI. This AOI is closed with respect to CERCLA.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.4 FGGM 21 (OU-16) – Medical Waste Site

Regulatory Driver: CERCLA

Previous Environmental Investigations

SI..... 1994

Removal Action Report..... 1999

PA..... 2012

Contaminants of Potential Concern: Arsenic

Media of Concern: Soil

Site Location: Grid A7, The Medical Waste Site at the former Walter Reed Army Institute for Research was located at the Walter Reed Medical Center farm in the BRAC parcel off Switch Board Road, adjoining and east of the Baltimore-Washington Parkway, approximately 2 miles southwest of State Route 198. The medical waste site is approximately 1 acre.

Site Description: The former farm property was transferred from Fort Meade to the U.S. Department of the Interior under the BRAC program in 1991 and is currently part of the PRR-NT. Prior to the transfer, the property was operated as an animal farm from about 1967 to 1987. A medical/farming waste area was located near the southwest corner of the former farm, about 750 feet southwest of a retention pond and adjacent to a marshy area extending south to the Patuxent River. The facility was never a secure facility and was not a site where biological agents would have been used in research (FGGM, 1999). Based on the history of the AOI, biological agents would not have been used in research at this location, and likewise, would not be disposed of in the medical waste site. A scan of both the general work area and specific medical waste debris with a Radiation Survey Meter reported no elevated radiological readings noted.

Previous Studies: Over the course of previous investigations at this area of interest, 12 surface soil samples were collected and submitted for laboratory analysis.



Current Use: Unused wooded area.

Current Status: On 23 February 2012, the EPA concurred that analytical results indicate that no CERCLA release has occurred at this AOI. This AOI is closed with respect to CERCLA.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.5 Building 4553 – Photographic Laboratory, Part of FGGM 36 (OU-20)

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU 1996
Historic Aerial Photograph Study 1996
RFA 3rd phase 1999
Data Gap Investigation 2002
PA 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid G4, Building 4553 is located in the southeastern portion of the installation, northwest of the intersection of Llewellyn Avenue and Cooper Avenue.

Building 4553 (Non-SWMU 11) is part of FGGM 36, which also includes Building 6530 (SWMUs 105-108). Building 6530 (SWMUs 105-108) is discussed separately.

Site Description: Building 4553 was not identified as a SWMU in the 1996 SWMU study (BCM, 1996) because no routine waste is stored or produced at this AOI. However, it was investigated as part of the SWMU study and included in the SWMU report (BCM, 1996). BCM indicated there were no spills or reported releases in the area surrounding this building during the SWMU study (BCM, 1996).

Current and past use of Building 4553 consisted of support facilities, primarily administrative, for intelligence agencies. It typically stored cleaners and office supplies. There are no reports of pesticides being stored at this building.

Previous Studies: There had never been a release of hazardous substances resulting in contamination to soil, groundwater, or surface water at this AOI (BCM, 1996). The EPA reviewed historic aerial photographs (from 1938 to 1995) of Fort Meade and found no stains, stressed vegetation, debris, solid waste or other areas of environmental concern at this AOI (EPA 1996).



Current Use: Unknown

Current Status: The EPA approved NFA for this AOI on 20 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.6 FGGM 75 (OU-30) – Underground Storage Tanks Prior to 1984

<p>Regulatory Driver: CERCLA</p> <p>Previous Environmental Investigations</p> <p>ER,A2008</p> <p>UST Facility Summary2010</p> <p>PA.....2012</p> <p>Contaminants of Potential Concern: Gasoline, diesel fuel, and oil</p> <p>Media of Concern: Soil</p> <p>Site Location: Underground Storage Tanks prior to 1984 were located throughout the installation.</p> <p>Site Description: In July 1985, the EPA promulgated 40 Code of Federal Regulations 280, which required the registration of all USTs used for dispensing regulated substances. The State of Maryland published UST regulations in 1984. USTs had to be registered and among the requirements for UST registration are tank and line leak detection requirements, spill and overfill protection equipment, and maintaining tank release detection records. FGGM 75 consists of USTs prior to 1984 that had leaked or potentially leaked product to the environment. Since 1984, all USTs under the control of FGGM DPW have been closed, and leaking USTs have been remediated. The installation-wide conversion from heating oil to natural gas resulted in the majority of these UST closures. Only seven active USTs are currently on installation under the jurisdiction of FGGM DPW. All seven USTs have been installed after 1984.</p> <p>Previous Studies: Numerous samples were collected throughout the time the USTs were closed out. Results were presented to MDE with closeout documents.</p>	<p>No image available - these are multiple sites throughout the installation.</p> <hr/> <p>Current Use: The sites of the former USTs are used for installation support functions.</p> <p>Current Status: The MDE has no open UST cases with FGGM DPW. The EPA approved NFA for this AOI on 23 February 2012.</p> <p>Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.</p>
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2.5.7 FGGM 95 (OU-45) – Former Landfill Sites

2.5.7.1 FGGM 95 (OU-45) – Possible Dump Site C – 1957

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

Geophysical Investigation 2004

PA..... 2011

Contaminants of Potential Concern: None identified.

Media of Concern: None identified.

Site Location: Grid F2, Possible Dump Site C-1957 was located within the northern portion of the installation, adjacent to the intersection of Evans Court and Leslie Road.

Site Description: Possible Dump Site C - 1957 was identified as an AOI because the EPA (1996) historic aerial photographic study of the installation listed “possible solid waste” at this location during an analysis of a 1957 aerial photograph. The EPA (1996) study did not identify stained soils or stressed vegetation in this area in any of the historic aerial photographs.

Previous Studies: A geophysical investigation of Possible Dump Site C - 1957 did not identify any geophysical anomalies on the AOI unassociated with utilities (Versar, 2004a). There is little geophysical evidence to suggest that this AOI is a former dump or landfill.



Possible Dump Site C - 1957
0 50 100 200
Feet

Current Use: Grass, trees, portions of Evans Court and Leslie Road, and buildings.

Current Status: The EPA approved NFA for this AOI on 15 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.7.2 FGGM 95 (OU-45) – Possible Dump Site D-1957

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

Geophysical Investigation 2004

PA..... 2011

Contaminants of Potential Concern: None identified.

Media of Concern: None identified.

Site Location: Grid F2, Possible Dump Site D-1957 was located in the northern portion of the installation, on Riordan Court.

Site Description: Possible Dump Site D-1957 was identified as an AOI because the EPA (1996) historic aerial photographic study of the installation listed “possible solid waste” at this location during an analysis of a 1957 aerial photograph. The EPA (1996) study did not identify stained soils or stressed vegetation in this area in any of the historic aerial photographs.

Previous Studies: A geophysical investigation of Possible Dump Site D-1957 did not identify any geophysical anomalies at the AOI that were not associated with utilities or buildings (Versar, 2004).



Possible Dump Site D - 1957

0 25 50 100 Feet

Current Use: Site D-1957 encompasses Riordan Court and the lawns and driveways associated with four small houses.

Current Status: The EPA approved NFA for this AOI on 15 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.7.3 FGGM 95 (OU-45) – Possible Dump Site F – 1957

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996
Geophysical Investigation 2004
PA/SI 2010-2014

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid E3, Possible Dump Site F-1957 was located in the western portion of the Installation, between Eubanks Loop and Christian Loop.

Site Description: Possible Dump Site F-1957 was identified as an AOI because the EPA (1996) historic aerial photographic study of the installation listed “possible solid waste” at this AOI during an analysis of a 1957 aerial photograph. In the analysis of the 1963 aerial photograph, EPA stated that “the possible accumulation of solid waste observed in 1957 is no longer present due to construction of new housing.” The EPA (1996) study did not identify stained soils or stressed vegetation in this area in any of the historic aerial photographs.

Previous Studies: A geophysical investigation of Possible Dump Site F - 1957 provided little evidence that the AOI contains metallic or conductive buried waste. There is little geophysical evidence to suggest that this AOI is a former dump or landfill (Versar, 2004).



Possible Dump Site F - 1957
0 25 50 100 Feet

Current Use: The AOI is currently a grass lawn bordered to the north and south by townhouses.

Current Status: The EPA approved NFA for this AOI on 15 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.7.4 FGGM 95 (OU-45) – Site M - Parcel 1

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996
Geophysical Investigation 2004
EBS 2004
PA/SI 2007
PA/SI 2012

Contaminants of Potential Concern: VOCs, metals, and explosives

Media of Concern: Groundwater

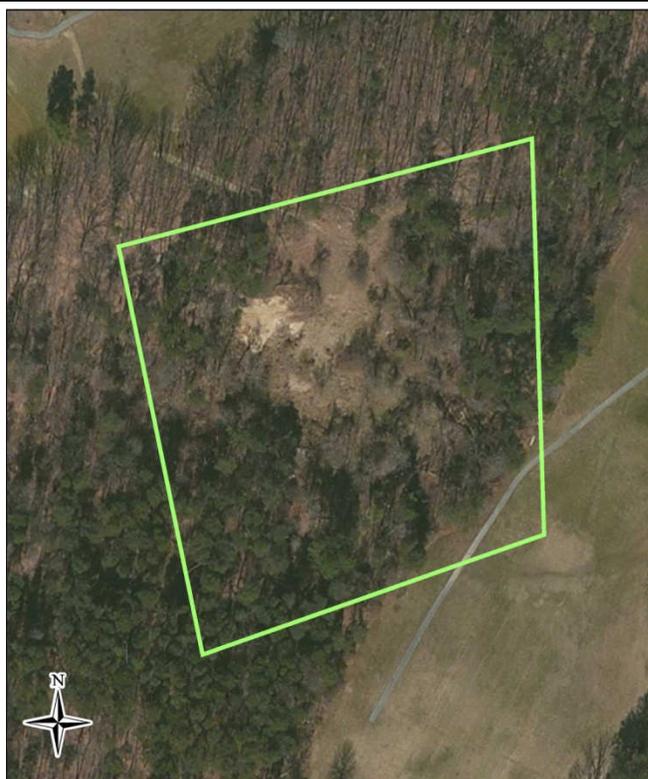
Site Location: Grid F3, Site M Parcel 1 is in the 8800 Block, east of O'Brien Road.

Site Description: This location was initially identified because a review of a 1938 aerial photograph identified it as a possible dump (EPA, 1996).

Previous Studies: A geophysical investigation (Versar, 2004) confirmed this AOI as a landfill.

Over the course of previous investigations at this site, 1 surface soil sample, 16 subsurface soil samples and 1 groundwater sample were collected and analyzed. Based on a risk analysis of the analytical results, iron, cobalt, manganese, and arsenic elevate the risk numbers above the site-specific action levels. Methylene chloride was detected above its MCL.

As part of the 2011 SI, 3 groundwater samples were collected and analyzed for VOCs, metals, and explosives.



Site M - Parcel 1
0 50 100 200 Feet

Current Use: Vacant land

Current Status: Based on the results of the 2011 SI, the EPA approved NFA for this AOI on 17 February 2012.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.7.5 FGGM 95 (OU-45) – Site M - Parcel 2

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996
EBS 2004
Geophysical Survey 2004
PA/SI 2007
PA/SI 2010-2012

Contaminants of Potential Concern: VOCs, metals, herbicides, pesticides, explosives, PAH, furans, and dioxins

Media of Concern: Soil and groundwater

Site Location: Grid F3, Site M Parcel 2 is located in the 8800 Block, north of the intersection of Zimborski and Taylor Avenues.

Site Description: This location was initially identified because the EPA (1996) historic aerial photograph study suggests there may have been a solid waste landfill at this location in the 1943 aerial photograph.

Previous Studies: Over the course of previous investigations at this site, 13 subsurface soil samples and 3 groundwater samples (1 total and 2 dissolved) were collected and analyzed. Based on a risk analysis of the analytical results, arsenic, vanadium, manganese, cobalt, and iron elevate the risk numbers above the site-specific action levels. Methylene chloride was detected above its MCL.

Fill material containing ash was encountered at 6 of the 10 direct push locations.

As part of the 2011 SI, 4 surface soil samples were collected and analyzed for VOCs, metals, herbicides, pesticides, explosives, PAH, furans, and dioxins and 4 subsurface soil samples were collected and analyzed for metals, PAH, furans, and dioxins.



Site M - Parcel 2
0 50 100 200 Feet

Current Use: Vacant land

Current Status: Based on the results of the 2011 SI, the EPA approved NFA for this AOI on 17 February 2012.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.7.6 FGGM 95 (OU-45) – Site M - Parcel 4

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

EBS 2004

PA..... 2011

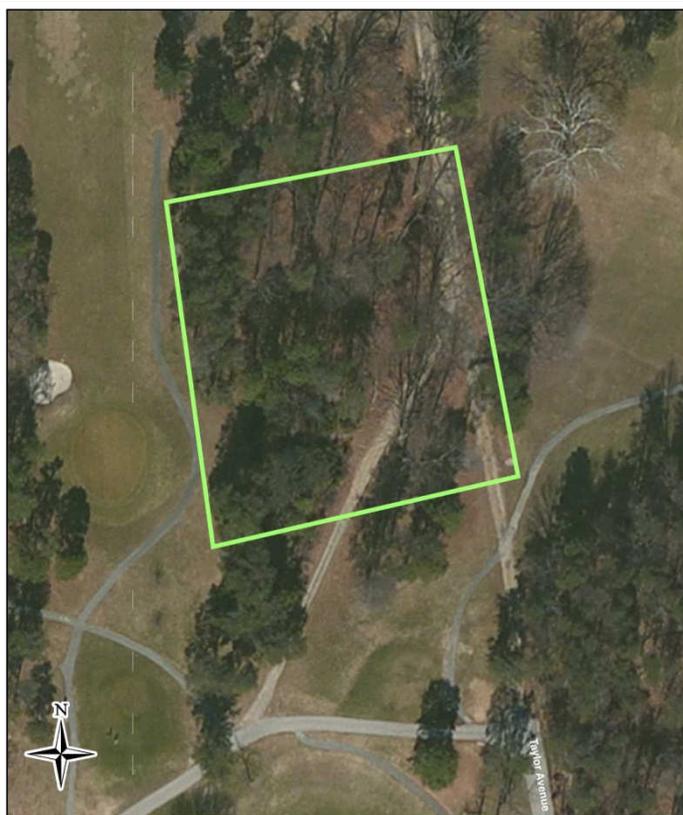
Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid F3, located east and west of Taylor Avenue.

Site Description: This location was initially identified because ground scarring was observed at this AOI during a review of a 1943 historic aerial photograph (Berger EA, 2004). A “disturbance” was observed in the northeastern part of this AOI in the 1952 through 1995 historic aerial photographs (Berger EA, 2004).

Previous Studies: Results: Over the course of previous investigations at this AOI, 2 subsurface soil samples and 1 groundwater sample were collected and submitted for laboratory analysis.



Site M - Parcel 4

0 40 80 160 Feet

Current Use: Vacant land

Current Status: The EPA approved NFA for this AOI on 7 January 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.7.7 FGGM 95 (OU-45) – Site M - Parcel 5 Concrete Pit/Telephone Pole

Regulatory Driver: CERCLA

Previous Environmental Investigations

Aerial Photographic Investigation..... 1996

EBS 2004

PA..... 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid F3, east of Taylor Avenue.

Site Description: The EBS identified this location because a concrete foundation for an out building and a telephone pole were observed in a wooded area. The foundation was reportedly adjacent to a former farm house and was identified as a “pit” in the EBS. The concrete foundation and telephone pole were observed during the December 2003 Site Investigation that was conducted as part of the EBS. Upon review of the Site Investigation, the concrete foundation is probably an old out building located near a former barn. It was described as “Building 6927 Foundation” in the description of AOI 11. AOI 11 was later renamed Parcel 5.

Previous Studies: Over the course of previous investigations at this site, 1 subsurface soil sample was collected and analyzed.



Site M - Parcel 5

0 25 50 100 Feet

Current Use: Vacant land

Current Status: The EPA approved NFA for this AOI on 7 January 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.7.8 FGGM 95 (OU-45) – Site M - Parcel 6 Historic Ground Scar

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996
Geophysical Survey 2004
EBS 2004
PA/SI 2007
PA 2011

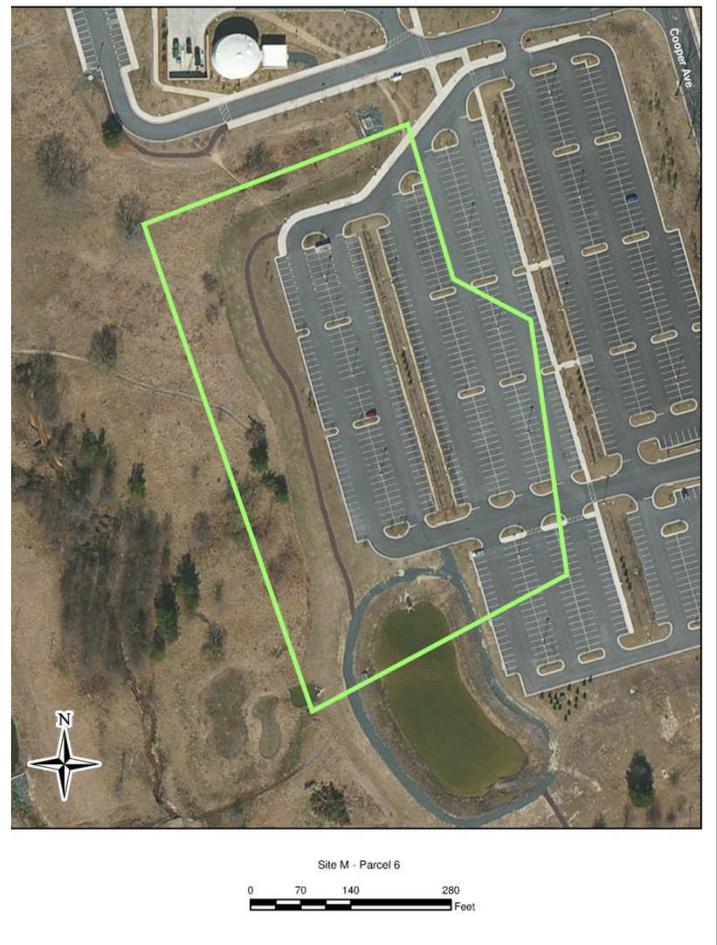
Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid F3/F4, located northwest of the intersection of Mapes Road and Cooper Avenue.

Site Description: The EBS identified ground disturbance/ground scar at this location in historic aerial photographs (Berger EA, 2004). The EPA (1996) historic aerial photograph review of the same location did not identify anything they would classify as a disturbance or scarring, in fact, the EPA (1996) report did not identify any area of interest at this location. In the sandy coastal plain sediments typical of this location, ground disturbance can be easily accomplished by driving over an area with thin vegetation. The Patapsco sands crop out at this location. The Patapsco sands are a white to buff to vari-colored sand that shows up as light spots when exposed on historic aerial photographs. A thin covering of grass has covered this location in most of the historic aerial photographs. The ground disturbance/scarring could be due to repeated vehicle or foot traffic. Digging, trenching, filling, or any other activity that would suggest landfilling or dumping was not identified for this location.

Previous Studies: Over the course of previous investigations at this site, 2 subsurface soil samples and 1 groundwater sample were collected and analyzed.



Current Use: Office building

Current Status: The EPA approved NFA for this AOI on 7 January 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.7.9 FGGM 95 (OU-45) – Site M - Parcel 7

Regulatory Driver: CERCLA

Previous Environmental Investigations

- EBS2004
- PA/SI2007
- PA/SI2010-2012

Contaminants of Potential Concern: VOCs, SVOCs, metals, pesticides, and explosives

Media of Concern: Groundwater

Site Location: Grid F4, northwest of the intersection of Mapes Road and Taylor Avenue.

Site Description: The 2004 EBS (Berger EA, 2004) suggested that a possible landfill may be located in the northern portion of this site, north of former Parks Golf Course hole 14 and east of the NSA property. This assessment is based on ground scars observed in historic aerial photographs and surficial debris (metal cans, pipes, and a fire hydrant) seen at this location during a 2004 site visit (Berger EA, 2004).

This AOI was also a former Mortar Range. This AOI is the IRP portion of the Mortar Range; the MMRP portion is covered in Section 2.2.1. The foldout map showing all SMP AOIs shows the overlap of this AOI with the MMRP AOIs.

Previous Studies: Over the course of previous investigations at this site, 40 surface soil samples (and 4 duplicate surface soil samples), 21 subsurface soil samples, and 4 groundwater samples (plus 1 duplicate) were collected and analyzed. Based on a risk analysis of the analytical results, heptachlor epoxide, cobalt, and manganese elevate the risk numbers above the site-specific action levels. Methylene chloride was detected above its MCL.

As part of the 2011 SI, 2 groundwater samples were collected and analyzed for VOCs, SVOCs, pesticides, and explosives. No compounds exceeded risk levels.



Site M - Parcel 7
0 200 400 600 Feet

Current Use: Vacant land wooded area

Current Status: Based on the results of the 2011 SI, the EPA approved NFA for this AOI on 17 February 2012.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.7.10 FGGM 95 (OU-45) – Site M - Parcel 9

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996
EBS 2004
PA/SI 2007
PA 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid F3, northwest of the intersection of Cooper Avenue and Reece Road.

Site Description: Disturbed ground was identified at this location in a 1938 historic aerial photograph and ground scarring/disturbance was identified here in a 1943 aerial (Berger EA, 2004). Ground scarring/disturbance, stressed vegetation, or staining were not identified at this location in the EPA (1996) historic aerial photographic study of the installation.

Previous Studies: A geophysical investigation (Berger EA, 2004) was conducted to investigate the disturbed ground and ground scarring. The geophysical investigations of this area revealed some anomalies. Those anomalies that could not be attributed to utilities or the cart path were investigated by 4 subsurface soil samples and 2 groundwater samples.

Over the course of previous investigations at this site, 4 subsurface soil samples and 2 groundwater samples were collected and analyzed.



Site M - Parcel 9
0 75 150 300 Feet

Current Use: Office building

Current Status: The EPA approved NFA for this AOI on 7 January 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.7.11 FGGM 95 (OU-45) – Taylor Avenue Buried Drum Site

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

Geophysical Survey 2007

SI 2007

PA 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid F4, The Taylor Avenue Buried Drum Area of Interest was in the south-central portion of the installation, approximately 150 feet south of the intersection of Taylor Avenue and Gordon Street.

Site Description: Taylor Avenue Buried Drum Area of Interest was identified as an AOI on February 24, 2006, when, while mapping a gas line for Baltimore Gas & Electric, Soft Dig crews discovered a buried drum along Taylor Avenue. The drum was located between Building 6500, the Defense Information School, and Building 6530, the Auto Craft Shop. The AOI is confined to the eastern edge of Taylor Avenue.

Previous Studies: Over the course of previous investigations at this AOI, 1 drum composite sample and 3 post excavation subsurface soil samples were collected and submitted for laboratory analysis.



Buried Drum Site - Taylor Avenue
0 25 50 100 Feet

Current Use: Roadways and grass fields cover this AOI.

Current Status: The EPA approved NFA for this AOI on 5 October 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8 FGGM 96 (OU-46) – Former Motor Pools, Wash Racks, and Buildings

2.5.8.1 FGGM 96 (OU-46) – Former MP (SWMU 10), Building 294

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996
Historic Aerial Photograph Study 1996
SI 1999
Data Gap Investigation 2002
PA 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H4, Building 294 is located on the eastern portion of the installation, in the southeast corner of the intersection of 4th Street and Chamberlin Avenue. Building 294 is located in the northwest corner of MP-7/WR-6. WP-7/WR-6 is being addressed separately.

Site Description: Building 294 was identified as a potential past SWMU in the 1996 SWMU study (BCM, 1996) because it was formerly used as a MP. Building 294 is used for administrative purposes and houses the Department of Public Works Entomology Department, where storage and mixing of pesticides takes place. Pesticides, herbicides, fungicides, and rodenticides are stored inside; an outdoor concrete slab is used for mixing chemicals. The AOI is also identified as a “vehicle service and staging area” in historic aerial photographs dated 1943 through 1988, and as a “former vehicle service and staging area” in a 1995 historic aerial photograph (EPA 1996).

Previous Studies: Over the course of previous investigations at this AOI, 6 surface soil samples and 11 subsurface soil samples were collected and submitted for laboratory analysis.



Building 294 - Entomology Department
0 25 50 100 Feet

Current Use: Administrative

Current Status: The EPA approved NFA for this AOI on 20 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.2 FGGM 96 (OU-46) – Associated WR and OWS, Building 1251

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study..... 1996
Sampling Visits..... 1999 and 2001
SI 2001
PA 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid G1. Building 1251 is in the northern portion of the installation, in the southeast quadrant of the intersection of 26th Street and Annapolis Road.

Site Description: Building 1251 was identified as SWMU 19 because a portion of the building is used for vehicle maintenance (BCM 1996). The adjacent WR (SWMU 21) and OWS (SWMU 20) were identified as SWMUs because there was systematic discharge of wash water into the OWS from the WR (BCM, 1996).

The maintenance shop within the building utilizes and stores small quantities of lube oil, waste oil, brake fluid, and antifreeze. Four storage sheds, two formerly located near Building 1251 and two on the east side of Building 1252, were used for storage of hazardous materials and petroleum products; the sheds were removed in the late 1990s.

Previous Studies: Over the course of previous investigations at this AOI, 4 surface and 16 subsurface soil samples (plus 1 duplicate subsurface soil sample) were collected and analyzed.



Building 1251 - Administrative and Vehicle and Equipment Storage, Wash Rack



Current Use: Administrative functions and storage of military vehicles and equipment, and a portion of the building is used for minor vehicle maintenance.

Current Status: The EPA approved NFA for this AOI on 15 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.3 FGGM 96 (OU-46) – Vehicle Maintenance, Building 2121

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996
Sampling Visits 1999
PA..... 2011

Contaminants of Potential Concern: None identified

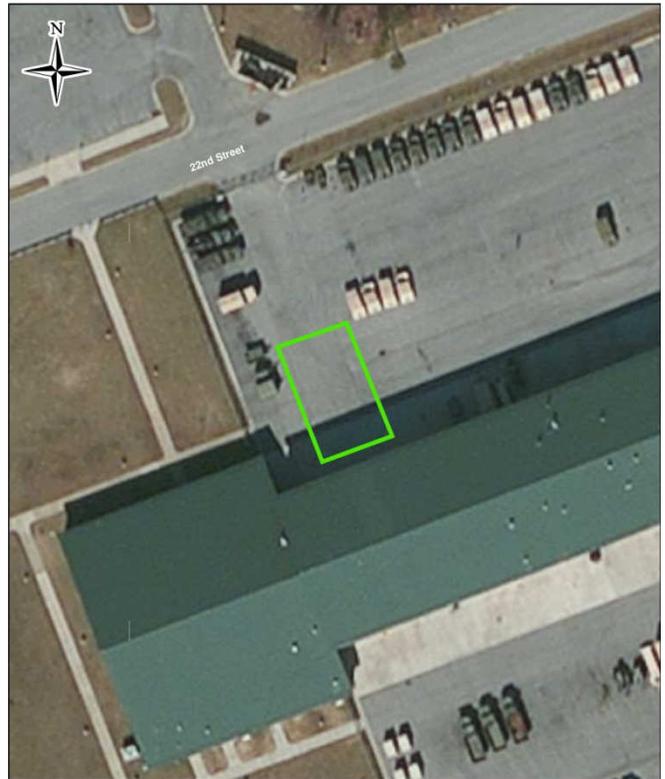
Media of Concern: None identified

Site Location: Grid H2, Former Building 2121 was located in the northeastern portion of the installation, at the southeast quadrant of the intersection of Annapolis Road and 21½ Street.

Site Description: Building 2121 (SWMUs 29 and 30) was constructed in 1941. Building 2121 was identified as two SWMU facilities in the 1996 SWMU study (BCM, 1996) because of its more recent use for maintenance and repair of equipment (SWMU 29) and because of its operation as a vehicle and small engine maintenance repair facility in the past (SWMU 30). There were no spills or reported releases identified by BCM during the SWMU study (BCM, 1996).

At the time of the 1998 sampling activities (Versar, 1999), vehicles and equipment were parked in the yard and limited quantities of antifreeze, gasoline, diesel fuel, and motor oil were stored on the AOI. The building was demolished in early 1999, shortly after the 1998 sampling activities.

Previous Studies: Over the course of previous investigations at this AOI, 6 surface and 13 subsurface soil samples were collected and submitted for laboratory analysis.



Building 2121 - Vehicle Maintenance
0 25 50 100 Feet

Current Use: Parking lot

Current Status: The EPA approved NFA for this AOI on 15 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.4 FGGM 96 (OU-46) – Maintenance Facility (SWMU 31), Former Building 2122

Regulatory Driver: CERCLA

Previous Environmental Investigations

- SWMU Study 1996
- Historic Aerial Photograph Study..... 1996
- Sampling Visits..... 1999
- PA 2011

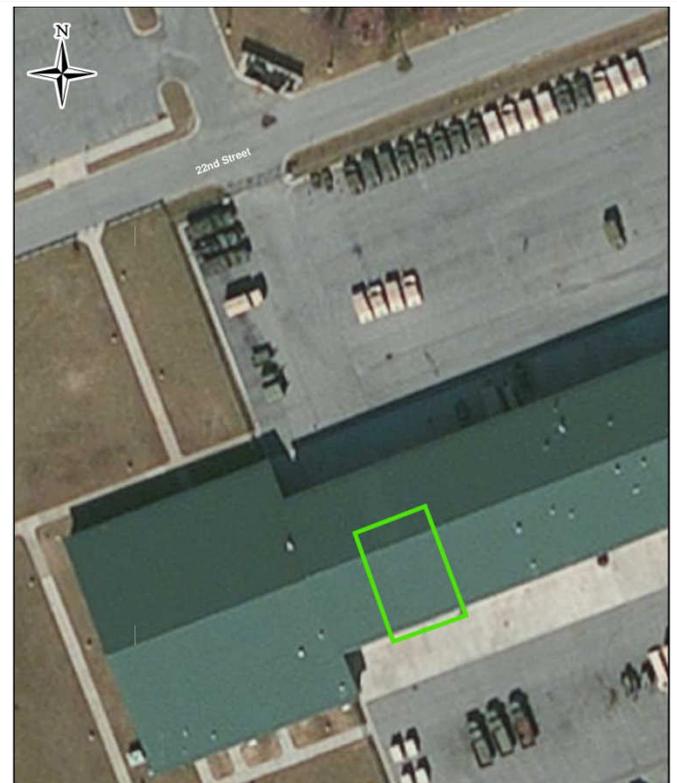
Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H2, Former Building 2122 was located in the northeast portion of the installation, in the southeast quadrant of the intersection of 21½ Street and Annapolis Road.

Site Description: Building 2122 was identified as SWMU 31 during the 1996 SWMU study (BCM, 1996) because of its past use as a vehicle maintenance facility. There were no spills or reported releases identified by BCM during the SWMU study (BCM, 1996). Former Building 2122 was constructed in 1941 and used as a vehicle maintenance facility until 1975, for camouflage painting from 1975 to 1978, and for storage of miscellaneous military supplies (tents and small motors) from 1978 until its demolition in early 1999.

Previous Studies: Over the course of previous investigations at this site, 4 subsurface soil samples were collected and submitted for laboratory analysis.



Building 2122 - Vehicle Maintenance
0 25 50 100 Feet

Current Use: Administrative

Current Status: The EPA approved NFA for this AOI on 15 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.5 FGGM 96 (OU-46) – Maintenance Facility (SWMU 32), Former Building 2123

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study..... 1996

Sampling Visits..... 1999

PA 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H2, Former Building 2122 was located in the northeast portion of the installation, in the southeast quadrant of the intersection of 21½ Street and Annapolis Road.

Site Description: Former Building 2123 was constructed in 1941. It was used as a vehicle maintenance facility in the 1970s and was used for equipment storage since that time until it was removed, sometime between 2001 and 2003.

Previous Studies: Over the course of previous investigations at this site, 4 subsurface soil samples were collected and submitted for laboratory analysis.



Current Use: Parking lot and grassy area.

Current Status: The EPA approved NFA for this AOI on 15 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.6 FGGM 96 (OU-46) – Maintenance Facility (SWMUs 33 & 34), Building 2124

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996
Sampling Visits 1999
PA.....2011

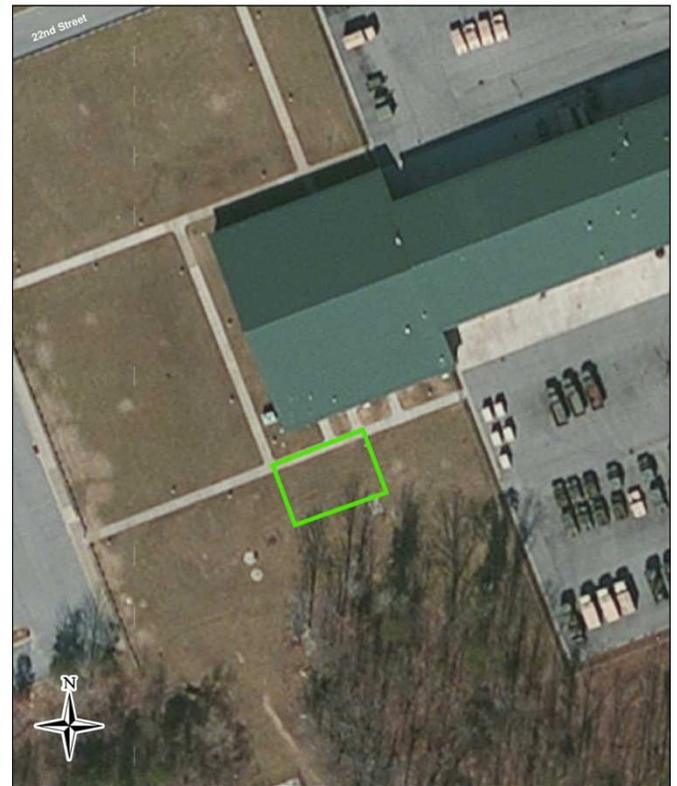
Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H2, Building 2124 is located in the northeast portion of the installation, approximately 800 feet southeast of the intersection of 21½ Street and Annapolis Road.

Site Description: Building 2124 was constructed in 1941 and identified as two SWMUs during the 1996 SWMU study (BCM, 1996) because it was used as a vehicle and tool storage area (SWMU 33) and because routine waste from the building may have been contained and discarded on site during the building’s former use as a vehicle maintenance facility (SWMU 34). There were no spills or reported releases identified by BCM during the SWMU study (BCM, 1996).

Previous Studies: Over the course of previous investigations at this AOI, 4 subsurface soil samples (and 1 duplicate subsurface soil sample) were collected and submitted for laboratory analysis.



Building 2124 - Vehicle and Tool Storage, Vehicle Maintenance



Current Use: Trees and grass.

Current Status: The EPA approved NFA for this AOI on 15 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.7 FGGM 96 (OU-46) – Medical Supply/Administration (SWMU 73), Building 2484

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996

Sampling Visit..... 2000

PA..... 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H4, located in the southeastern portion of the installation, approximately 250 feet northwest of the intersection of Ernie Pyle Street and 4th Street.

Site Description: Building 2484 was a warehouse/administrative building that served as a warehouse for receiving and storing hospital supplies. The building stored unopened containers of chemicals including cleansers, acetone, methanol, ammonia, alcohol pads, and developers and fixers for the hospital's X-ray machine. In the past, products were stored in a flammable room within the building.

Previous Studies: Over the course of previous investigations at this site, 4 subsurface soil samples and 1 groundwater sample were collected and submitted for laboratory analysis.



Building 2484 -- Hospital Chemical Facility

0 25 50 100 Feet

Current Use: Administrative

Current Status: The EPA approved NFA for this AOI on 20 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.8 FGGM 96 (OU-46) – Dental Research Laboratory (SWMU 93), Former Building 2802

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study..... 1996

Historic Aerial Photograph Study..... 1996

Sampling Visit2001

PA.....2012

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H3, located in the eastern portion of the installation, approximately 1,200 feet north of the intersection of Mapes Road and Chisholm Avenue.

Site Description: Former Building 2802 was constructed in 1941 and used as a dental research laboratory for approximately ten years starting in the early 1970s. The dental research laboratory involved the use of radioactive materials until they were decommissioned. Radioactive waste was removed by the Forest Glen health physics office, and the radioactive materials license was relinquished in 1994. The building was used in the mid-1990s for administrative purposes and storage of laboratory equipment, and it was demolished by early 2000.

Previous Studies: Over the course of previous investigations at this site, 4 subsurface soil samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



Current Use: Grassy field.

Current Status: The EPA approved NFA for this AOI on 18 April 2012.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.9 FGGM 96 (OU-46) – Lab (SWMU 94), Former Building 2804

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996

Sampling Visit..... 2000

Data Gap Investigation 2002

PA..... 2012

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H3, Former Building 2804 was located in the eastern portion of the installation, north of the intersection of Ernie Pyle and 13th Streets.

Site Description: Building 2804 was identified as a potential former SWMU because it was formerly used as an electron microscopy laboratory. The building was used as barracks before it became a laboratory (BCM, 1996). Building 2804 was used to store chemicals in flammable cabinets, storage shelves, and in a chemical waste cabinet. Chemicals on the shelves included potassium permanganate, buffer solutions, hydrochloric acid, and uranium acetate (uranyl acetate). The amount of uranium acetate stored and used at this AOI would have been minimal.

Previous Studies: Over the course of previous investigations at this AOI, 3 surface soil samples, ten subsurface soil samples, and 3 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



Building 2804 - Chemical Storage, Electron Microscopy Lab

0 25 50 100 Feet

Current Use: Grass field

Current Status: The EPA approved NFA for this AOI on 18 April 2012.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.10 FGGM 96 (OU-46) – Lab (SWMU 95), Former Building 2805

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996

Sampling Visit..... 2000

Data Gap Investigation 2002

PA..... 2012

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H3, located in the eastern portion of the installation, southeast of the intersection of Ernie Pyle Street and 13th Street.

Site Description: Building 2805 was identified as a potential past SWMU in the 1996 SWMU study (BCM, 1996) because it was formerly used as a high performance liquid chromatography lab and as a microencapsulation lab since the 1970s and the exact management of waste practices in the past are unknown. There were no spills or reported releases identified by BCM during the SWMU study (BCM, 1996).

Building 2805 stored chemicals including lithium bromide, magnesium sulfate, potassium phosphate, heptane, acetonitrile, dextran, polyvinyl alcohol, and buffer solution. Prior to being used as a laboratory, the building had been used as barracks. Building 2805 was demolished in the late 1990s.

Previous Studies: Over the course of previous investigations at this site, 7 direct-push borings were advanced around Building 2805; 3 surface soil samples, 13 subsurface soil samples, and 1 groundwater sample were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



Current Use: Grassy field

Current Status: The EPA approved NFA for this AOI on 18 April 2012.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.11 FGGM 96 (OU-46) – Dental Clinic (SWMUs 96 and 97), Former Building 2831

Regulatory Driver: CERCLA

Previous Environmental Investigations

EIS..... 1997

SWMU Study 1996

Historic Aerial Photograph Study 1996

Sampling Visit..... 2000

PA..... 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H3, Building 2831 was formerly located in the eastern portion of the installation, approximately 1,500 feet north of the intersection of Mapes Road and Chisholm Avenue.

Site Description: Former Building 2831(SWMUs 96 and 97) was constructed in 1941 for administrative purposes. It was also used for dentistry training and as a dentist clinic, an x-ray processing lab, and chemical storage. There were two silver recovery units inside the building. Wastewater from the silver recovery units was flushed down the sanitary sewer, where it was treated at a wastewater treatment plant. The building was demolished in 1999.

Previous Studies: Over the course of previous investigations at this site, 6 direct-push borings were completed adjacent to Former Building 2831, and 6 subsurface soil samples were collected and submitted for laboratory analysis.



Current Use: Vacant, grass covered lot

Current Status: The EPA approved NFA for this AOI on 20 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.12 FGGM 96 (OU-46) – Administrative (Non-SWMU 10), Building 4552

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996
SWMU Study..... 1996
PA.....2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid G4, located in the southeastern portion of the installation, northwest of the intersection of Llewellyn Avenue and Cooper Avenue.

Site Description: Building 4552 – administrative and 1940 barracks (Non-SWMU 10), was not identified as a SWMU in the 1996 SWMU study (BCM, 1996) because no routine waste was stored or produced here. Current and past use of Building 4552 consisted of support facilities, primarily administrative, for intelligence agencies. It typically stored cleaners (floor wax, strippers, and detergents) and office supplies. There are no reports of pesticides being stored at this building.

Previous Studies: Building 4552 was investigated as part of the SWMU study and included in the SWMU report (BCM, 1996). BCM indicated there were no spills or reported releases in the building or the area surrounding this building during the SWMU study (BCM, 1996).



Current Use: Administrative

Current Status: The EPA approved NFA for this AOI on 20 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.13 FGGM 96 (OU-46) – Photo Lab (SWMU 100), Building 4554

Regulatory Driver: CERCLA

Previous Environmental Investigations

- EIS..... 1977
- SWMU Study 1996
- Sampling Visit 2000
- PA..... 2011

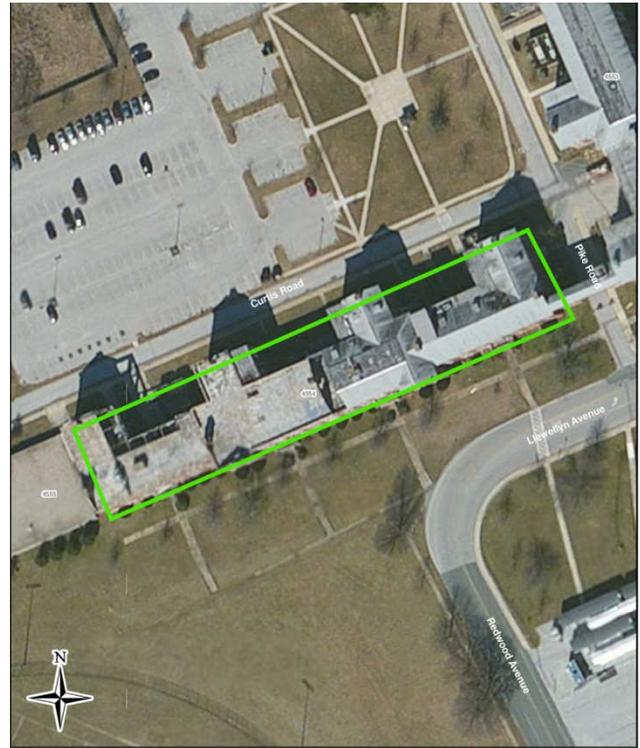
Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid G4, in the southern portion of the installation near the intersection of Llewellyn and Cooper Avenues.

Site Description: Building 4554 was used as a support facility for the intelligence agencies which largely consists of a photo lab, electronics fabrication, and administrative functions. Typical maintenance chemicals such as cleaners, floor waxes, strippers, and detergents were stored in the building. The photo lab contained a silver recovery system for the developer and fixer, and after recovery the developers and process chemicals were flushed into the sanitary sewer system, where it was treated by a wastewater treatment plant.

Previous Studies: Over the course of previous investigations at this AOI, 8 direct-push borings were advanced around Building 4554, and 8 subsurface soil samples were collected and submitted for laboratory analysis.



Building 4554 - Support Facility for Intelligence Agencies
0 40 80 160 Feet

Current Use: Administrative

Current Status: The EPA approved NFA for this AOI on 15 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.14 FGGM 96 (OU-46) – WR System for Most Recent Golf Course Club House, Building 6800

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996

Historic Aerial Photograph Study 1996

Sampling Visits 1998-1999

Data Gap 2002

PA..... 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid F3, located east of Taylor Avenue.

Site Description: The SWMU study (BCM, 1996) identified an OWS (SWMU 139) and WR (SWMU 140) adjacent to and northeast of Building 6865, the former clubhouse. Building 6865 was located east of Taylor Avenue. The site of former Building 6865 was a parking lot. The SWMU Sampling Visit and Data Gap studies collected samples east of Building 6800, the site of the most recent Golf Course Club House. The WR associated with the most recent Golf Course Club House (Building 6800) off Taylor Avenue is used for rinsing and washing golf carts and golf course maintenance equipment. Building 6800 was constructed in 1993. The former Golf Course Club House, Building 6865, was located directly south of Building 6800, and is addressed as a separate site.

Previous Studies: Over the course of previous investigations at this AOI, 3 surface soil samples and 6 subsurface soil samples were collected and submitted for laboratory analysis.



Building 6800 - WR System for Most Recent Golf Course Club House

0 25 50 100 Feet

Current Use: Vacant building

Current Status: The EPA approved NFA for this AOI on 7 January 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.15 FGGM 96 (OU-46) – WR System for Former Golf Course Club House, Building 6865

Regulatory Driver: CERCLA

Previous Environmental Investigations
 SWMU Study 1996
 Historic Aerial Photograph Study 1996
 PA/SI 2012

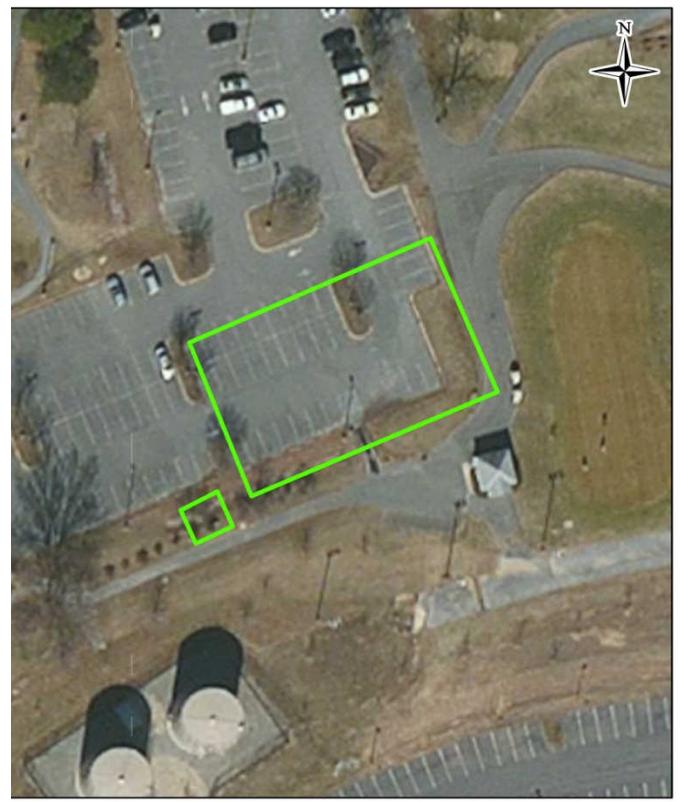
Contaminants of Potential Concern: VOCs, SVOCs, metals, herbicides, and pesticides

Media of Concern: Soil and groundwater

Site Location: Grid F3, located east of Taylor Avenue.

Site Description: The SWMU study (BCM, 1996) identified an OWS (SWMU 139) and WR (SWMU 140) adjacent to and northeast of Building 6865, the former clubhouse. Building 6865 was located east of Taylor Avenue. The site of former Building 6865 is currently a parking lot. The SWMU Sampling Visit and Data Gap studies collected samples east of Building 6800, the site of the most recent Golf Course Club House. The WR associated with the former Golf Course Club House (Building 6865) was not investigated. The former Golf Course Club House, Building 6865, was located directly south of Building 6800, and is addressed as a separate site.

Previous Studies: As part of the 2011 SI, 2 surface soil samples were collected and analyzed for VOCs, SVOCs, metals, herbicides, and pesticides; 3 subsurface soil samples were collected and analyzed for VOCs, SVOCs, metals, herbicides, and pesticides; and 1 groundwater sample was collected and analyzed for VOCs, SVOCs, metals, herbicides, and pesticides.



Building 6865 - WR System for Former Golf Course Club House
 0 25 50 100 Feet

Current Use: parking lot

Current Status: Based on the results of the 2011 SI, the EPA approved NFA for this AOI on 17 February 2012.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.16 FGGM 96 (OU-46) – Dental Clinic (SWMU 109), Building 8472

Regulatory Driver: CERCLA

Previous Environmental Investigations

DEIS 1977
SWMU Study 1996
Sampling Visit..... 2000
PA 2011

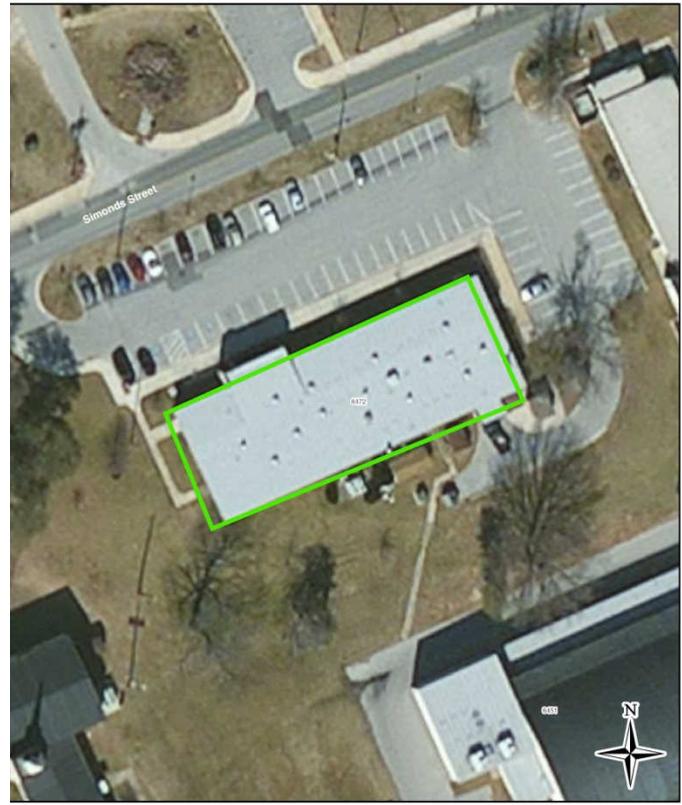
Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid F4, located in the southern portion of the installation on Simonds Road between Zimborski Avenue and 6th Armored Calvary Road.

Site Description: Building 8472 was constructed in the early 1960s and replaced a building constructed in the mid-1950s. Building 8472 was used as a dental clinic, and it contained a silver recovery system. After recovery, developers and process chemicals were flushed into the sanitary sewer system. Chemicals not in active use are stored in a locked room in several flammable materials cabinets and on storage shelves.

Previous Studies: Over the course of previous investigations at this AOI, 4 subsurface soil samples were collected and submitted for laboratory analysis.



Building 8472 - Dental Clinic
0 25 50 100 Feet

Current Use: Administrative

Current Status: The EPA approved NFA for this AOI on 15 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI. Given the history as a dental clinic, mercury contamination of the building should be ruled out if and when the building is reused.

2.5.8.17 FGGM 96 (OU-46) – Vehicle Maintenance (SWMUs 119 and 120), Building 8487

Regulatory Driver: CERCLA
Previous Environmental Investigations
SWMU Study 1996
RFA 3rd Phase 1999
PA..... 2011
Contaminants of Potential Concern: TPH, VOCs, and SVOCs
Media of Concern: Soil and groundwater
Site Location: Grid F5, located in the southwest portion of the installation southwest of the intersection of O'Brien Road and Simonds Street.
Site Description: Building 8487 (SWMUs 119 and 120) has been used as a motor pool which conducts maintenance checks on military vehicles, including oil changes. This AOI also contains five sheds west of Building 8487 which stored paints, oils, antifreeze, and waste oil. Building 8487 stores acetylene and argon for welding.
Previous Studies: Over the course of previous investigations at this site, 2 surface soil and 8 subsurface soil samples were collected from 8 different borings around Building 8487. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



Current Use: Administrative
Current Status: The EPA approved NFA for this AOI on 5 October 2011.
Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.18 FGGM 96 (OU-46) – Administrative, Barracks, and Clinic (Non-SWMUs 1, 2, 3, and 4), Buildings 2454, 2455, 2456, and 2457

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996
PA..... 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H4, located in the southeastern portion of the installation, in the northeast quadrant of the intersection of Wilson Street and 4½ Street.

Site Description: Former Building 2454 was used for administration since its construction in the early 1940s and was demolished in 1999-2000.

Former Building 2455 was used as barracks beginning in the early 1940s and later served as the Dental Headquarters administration.

Former Building 2456 later served as the Community Counseling Center for social drug rehabilitation.

Former Building 2457 later served as the eye clinic and administrative offices of Optometry Services, and they stored/used alcohol preps, acetone, office supplies, and household cleaners.

Previous Studies: No soil or groundwater samples have been collected at this AOI over the course of previous investigations. The 1996 SWMU study did not identify these AOIs as SWMUs, and it recommended NFA. The Fort Meade Environmental Partnership approved this AOI for NFA in 1999. There are no recent or historical indications of releases or contamination at these AOIs (BCM, 1996). There is no evidence of scarring, staining, or disturbance in any of the historic aerial photographs (EPA, 1996).



Former Buildings 2454, 2455, 2456, and 2457
0 40 80 160 Feet

Current Use: Grassy field.

Current Status: The EPA approved NFA for this AOI on 20 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.19 FGGM 96 (OU-46) – Storehouse (Non-SWMU 5), Building 2801

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996

Historic Aerial Photograph Study 1996

PA 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H3, located in the eastern portion of the installation, in the northwest corner of the intersection of Chisholm Avenue and 13th Street.

Site Description: Former Building 2801 was constructed in the early 1940s. Prior to 1985, the building was used as a warehouse to store lab equipment for the Corps of Engineers. More recently it was used as a research/administrative facility that utilized computers, video equipment, and robotics. Chemicals stored inside the building included small amounts of oils for the lathe and dry Polaroid films for photographic supplies. Chemicals were generally used entirely, and if any waste was produced, it was picked up by Building 2832. Building 2801 was demolished in 1999 or 2000.

Building 2801 was not identified as a SWMU in the 1996 SWMU study (BCM, 1996). The SWMU study recommended NFA for this AOI (BCM, 1996). There are no recent or historical indications of releases or contamination at this AOI. There is no evidence of scarring, staining, or disturbance in any of the historic aerial photographs (EPA, 1996).

Previous Studies: No soil or groundwater samples have been collected over the course of previous studies at this AOI.



Current Use: Grass field.

Current Status: The EPA approved NFA for this AOI on 20 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.20 FGGM 96 (OU-46) – Barracks and Administrative (non-SWMUs 12 and 13), Buildings 9802 and 9803

Regulatory Driver: CERCLA

Previous Environmental Investigations
 SWMU Study 1996
 Historic Aerial Photograph Study 1996
 PA..... 2011

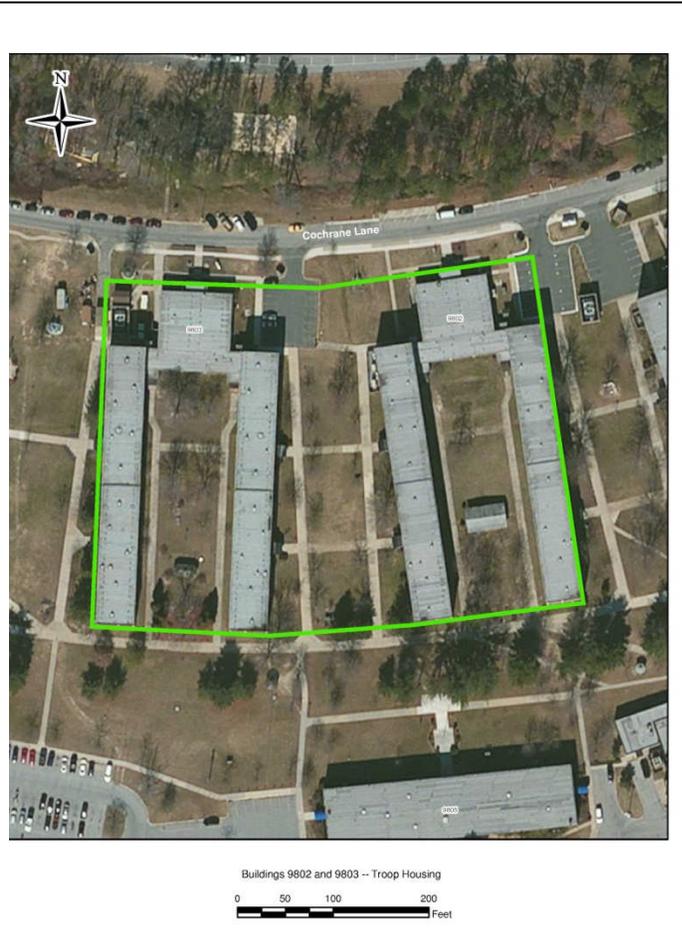
Contaminants of Potential Concern: Not determined

Media of Concern: Not determined

Site Location: Grid E3, in the western portion of the installation, southeast of the intersection of Canine Road and Cochrane Lane.

Site Description: Buildings 9802 (non-SWMU 12) and 9803 (non-SWMU 13) have been used for troop housing since their construction in the mid-1950s. No chemicals are used or stored in these buildings except typical cleaners, and no routine waste is generated, discharged, or stored in these buildings. Buildings 9802 and 9803 were not identified as SWMUs in the 1996 SWMU study because there was no storage of waste material or systematic waste discharges. However, they were investigated as part of the SWMU study and included in the SWMU (1996) report.

Previous Studies: Over the course of previous investigations at this site, personnel knowledgeable about the buildings were interviewed and historic aerial photographs were reviewed. In both cases no evidence of a release of hazardous substances resulting in contamination to soil, groundwater, or surface water was found. There is no evidence of scarring, staining, or disturbance in any of the historic aerial photographs (EPA, 1996).



Current Use: Barracks and administrative.

Current Status: The EPA approved NFA for this AOI on 15 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.21 FGGM 96 (OU-46) – Privately Owned Vehicles WR (SWMUs 141 and 142)

Regulatory Driver: CERCLA

Previous Environmental Investigations

- SWMU Study 1996
- Historic Aerial Photograph Study 1996
- RFA 3rd Phase 1999
- PA..... 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid F5, SWMUs 141 and 142 are located in the southern portion of the installation, southeast of Dutt Road.

Site Description: The wash rack system located southeast of Dutt Road is not associated with any building. The system was identified as two SWMUs during a 1996 SWMU study because it routinely discharged wash water from the wash rack (SWMU 142) to the oil/water separator (SWMU 141) (BCM, 1996). The wash rack was in use during the 1999 RFA for washing of privately-owned vehicles. Its construction date is unknown, but buildings occupied the AOI from the early 1940s through the 1960s. This AOI was not identified in the EPA (1996) review of historic aerial photographs of the installation; no stains, stressed vegetation, standing liquid, or other environmental concerns were identified at this location.

Previous Studies: Over the course of previous investigations at this AOI, 6 subsurface soil samples were collected and analyzed.



SWMUs 141 and 142 - Privately Owned Vehicles Wash Rack
 0 25 50 100 Feet

Current Use: Grass and trees occupy this AOI.

Current Status: The EPA approved NFA for this AOI on 15 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.22 FGGM 96 (OU-46) – Former OWS (SWMU 143) and WR (SWMU 144)

Regulatory Driver: CERCLA

Previous Environmental Investigations

SWMU Study 1996

Historic Aerial Photograph Study 1996

RFA 3rd Phase 1999

SI 2001

PA 2011

Contaminants of Potential Concern: None identified

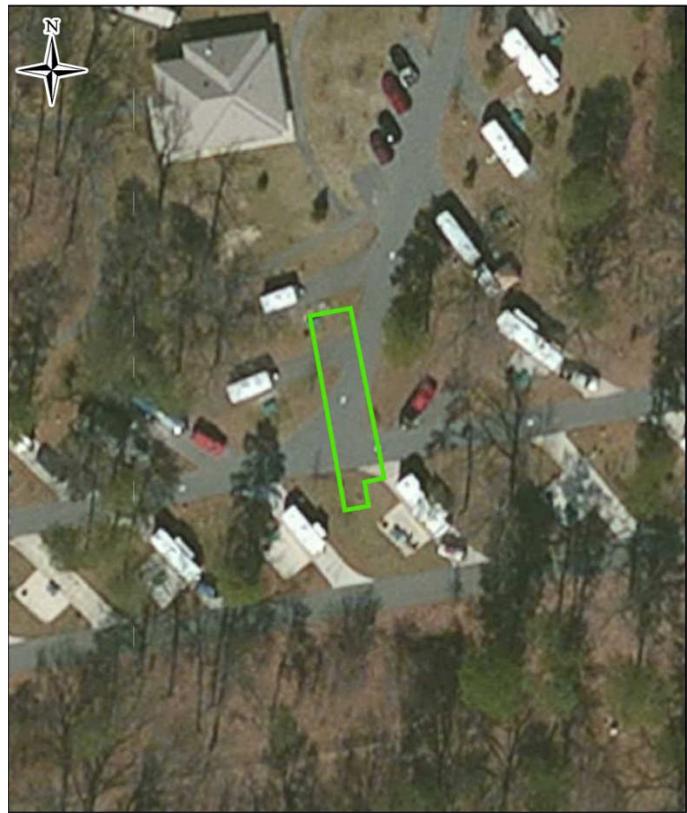
Media of Concern: None identified

Site Location: Grid H4, SWMUs 144 and 143 were located in the southeastern portion of the installation, northwest of the intersection of 4th Street and Y Street.

Site Description: SWMUs 143 and 144 were identified as two SWMUs because the WR (SWMU 144) discharged to the OWS (SWMU 143), and then to the sanitary sewer system during washing of military vehicles and equipment. The area was converted to a family campground at the end of 2001. The construction date is unknown for the WR system. It was comprised of a concrete-lined WR and associated OWS, and was demolished and removed in 1999. Prior to its removal, the WR is believed to have been used to wash military vehicles and equipment.

Previous Studies: There were no spills or reported releases identified during the SWMU study (BCM, 1996).

Over the course of previous investigations at this AOI, 6 surface soil samples (plus 1 duplicate sample), 5 subsurface soil samples, and 2 groundwater samples (plus 1 duplicate sample) were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



SWMUs 143 and 144 - Wash Rack and Oil/Water Separator

0 25 50 100 Feet

Current Use: Roadways and grassy areas.

Current Status: The EPA approved NFA for this AOI on 20 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.8.23 FGM 96 (OU-46) – Oil Tanks

Regulatory Driver: CERCLA

Previous Environmental Investigations

Historic Aerial Photograph Study 1996

PA 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid E3/E4, located in the western portion of the installation, west of Dennis Road, south of Emory Road, and south of Building 9807.

Site Description: Two oil tanks and a heating plant are located at this AOI. The oil tanks probably held heating oil for the adjacent heating plant and did not hold any hazardous material. It is unknown why these oil tanks are considered an AOI. This location was not identified as an AOI during the 1996 SWMU study (BCM, 1996) nor the EPA (1996) historic aerial photographic study of the installation. The EPA (1996) study did not identify stained soils, stressed vegetation, standing liquid, or other environmental concerns in this area in any of the historic aerial photographs.

Previous Studies: No previous sampling has been undertaken.



Current Use: Oil tanks.

Current Status: The EPA approved NFA for this AOI on 15 June 2011.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.5.9 Grant Street at Building 8484 – Spill Notification

Regulatory Driver: CERCLA

Previous Environmental Investigations

Reportable Spill Notification..... 2009

Spill Notification Response 2010

Contaminants of Potential Concern: Not determined

Media of Concern: Soil

Site Location: Grid F5, in the southwestern portion of the installation along Grant Street at Building 8484.

Site Description: A small metal box containing unlabeled paint containers was found in a duct bank trench being excavated along Grant Street at Building 8484. ED personnel observed solidified paints as well as a minor amount of liquid coming from the paint storage box.

Previous Studies: Over the course of previous investigations at this site, a maximum PID reading of 224 units was observed, and a grab sample from the bottom of the trench was collected.



Grant Street at Building 8484
(Spill Notification, September 2009)

0 25 50 100 Feet

Current Use: Roadway shoulder.

Current Status: On June 7, 2010, the EPA concurred that analytical results indicate that no CERCLA release has occurred at the subject site. This site is closed with respect to CERCLA.

Cleanup/Exit Strategy: NFA is required for this AOI.

2.5.10 20th Street at Route 175 near Building 1978 – Spill Notification

Regulatory Driver: CERCLA

Previous Environmental Investigations

Reportable Spill Notification 2009

Spill Notification Response 2010

Contaminants of Potential Concern: Not determined

Media of Concern: Soil

Site Location: Grid H2, located in the northeastern portion of the installation along Route 175 and 20th Street near Building 1978.

Site Description: Discolored soil in a duct bank trench excavated along Route 175 and 20th Street beginning approximately 2 ft. below ground surface and extending below the depth of the trench.

Previous Studies: Over the course of previous investigations at this site the maximum PID level was 130 units, and a grab sample from the bottom of the trench was collected for analysis.



20th Street at Route 175 near Building 1978
(Spill Notification, September 2009)

0 30 60 120
Feet

Current Use: Grass field.

Current Status: On June 7, 2010, the EPA concurred that analytical results indicate that no CERCLA release has occurred at the subject site. This site is closed with respect to CERCLA.

Cleanup/Exit Strategy: NFA is required for this AOI.

2.5.11 1st Street in front of Building 195 – Spill Notification

Regulatory Driver: CERCLA

Previous Environmental Investigations

Reportable Spill Notification..... 2009

Spill Notification Response 2010

Contaminants of Potential Concern: Not determined

Media of Concern: Soil

Site Location: Grid H5, in the southeastern portion of the installation on 1st Street in front of Building 195.

Site Description: Discolored soil in a 2-foot deep duct bank trench being excavated along 1st Street between Chisholm Avenue and Saxton Road was discovered beginning approximately 6 inches below ground surface and extending approximately 10 inches below ground surface on both sides of the trench. The discoloration appeared to be associated with existing asphalt paving and sub-base materials.

Previous Studies: Over the course of previous investigations at this site, 1 grab sample from the bottom of the trench was collected for analysis.



1st Street at Building 195 Release Site (September 2009)

0 25 50 100
Feet

Current Use: Roadway shoulder.

Current Status: On June 7, 2010, the EPA concurred that analytical results indicate that no CERCLA release has occurred at the subject site. This site is closed with respect to CERCLA.

Cleanup/Exit Strategy: NFA is required for this AOI.

2.6 Military Munitions Response Program Sites Designated for NFA

2.6.1 FGGM 004-R-01 (OU-41) – Grenade & Bayonet Range A

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA..... 2002-2003

Historical Records Review 2006

SI 2007

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid F5, located in the southwestern portion of the installation, bounded to the west by Grant Road, to the north by Building 8478, to the east by Building 8452, and to the south by Dutt Road.

Site Description: This AOI is comprised of the former Grenade and Bayonet Range A, which was suspected to be used from 1924 until the late 1930s. Hand grenades are assumed to have been used onsite and could have included fragmentation and practice hand grenades. Most of the 16-acre range has been developed and is currently occupied with various buildings and associated parking lots. The buildings currently located on the MRS were constructed by 1954. They include Buildings 8474, 8452, 8451, 8465, and 8479. Parking lots and driveways surround these buildings.

Previous Studies: Over the course of previous investigations at this site 5 soil samples were collected as part of the SI and submitted for laboratory analysis. None of the 5 soil samples detected metals above the regulatory limits, and no explosives were detected.



FGGM-004-R-01 - Grenade & Bayonet Range A

0 100 200 400
Feet

Current Use: Administrative and recreational.

Current Status: There is no physical evidence of MEC or munitions debris on the MRS.

Cleanup/Exit Strategy: NFA is required.

2.6.2 FGGM 008-R – Grenade & Bayonet Range B

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA 2002-2003

Historical Records Review 2006

SI 2007

Contaminants of Potential Concern: None identified

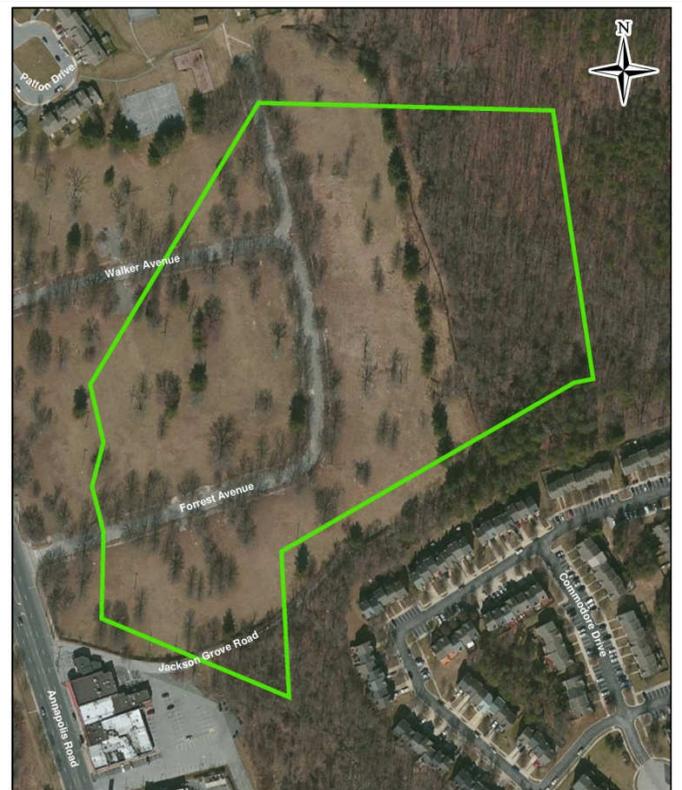
Media of Concern: None identified

Site Location: Grid H3, located in the northeastern portion of the installation.

Site Description: This AOI is comprised of the former Grenade and Bayonet Range B, which was suspected to be used in 1943. Hand grenades are assumed to have been used onsite and could have included fragmentation and practice hand grenades.

No MEC or munitions debris was observed over this 19-acre parcel during a magnetometer assisted site walk and no further MMRP action was recommended in the SI (Malcolm Pirnie, 2007b).

Previous Studies: Over the course of previous investigations at this site 5 soil samples were collected as part of the SI and submitted for metals and explosives laboratory analysis. Except for arsenic, no metals were detected above the regulatory limits, and no explosives were detected.



FGGM-008-R-01 - Grenade & Bayonet Range B

0 100 200 400 Feet

Current Use: Vacant land.

Current Status: There is no physical evidence of MEC or munitions debris on the MRS.

Cleanup/Exit Strategy: NFA is required.

2.6.3 FGM 005-R-01 (OU-42) – Pistol Range A

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA..... 2002-2003

Historical Records Review 2006

SI..... 2007

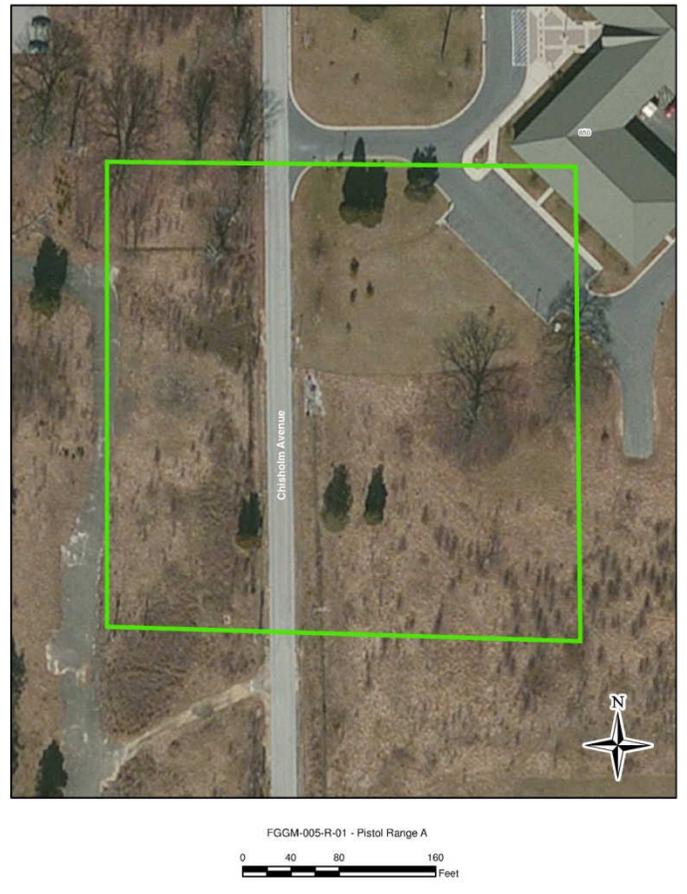
Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid H3, Pistol Range A is a former small arms range on the east side of Fort Meade. The 4-acre site is located south of Reece Road and directly west of Route 175. Chisholm Avenue runs north south through the former range.

Site Description: Information regarding frequency of use and types of munitions used were unavailable, but .45-cal ammunition is assumed to have been used because it was the common pistol ammunition in the 1920s. This AOI used to have several structures on site including buildings 2821-2826 and 899. The range was identified on a 1924 War Game Map issued by the War Department for Camp Meade. Based on the operation dates of other ranges found on the War Game Map, it is assumed that the pistol range was used from 1924 until the early 1940s. It is also assumed that only small arms were used on site but there is no specific information regarding this. There is no information on any MEC responses conducted onsite.

Previous Studies: Over the course of previous investigations at this site 5 composite surface soil samples were collected as part of the SI and submitted for lead analysis. Lead was detected in soil samples taken at this site at levels below regulatory limits (Malcolm Pirnie, 2007b).



Current Use: All structures have been demolished and currently Building 850 is within the range area. The undeveloped area is flat with grass vegetation and a few scattered trees and shrubs.

Current Status: NFA

Cleanup/Exit Strategy: NFA is required.

2.6.4 FGM 006-R-01 (OU-43) – Pistol Range B

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA..... 2002-2003

Historical Records Review 2006

SI..... 2007

Contaminants of Potential Concern: None identified

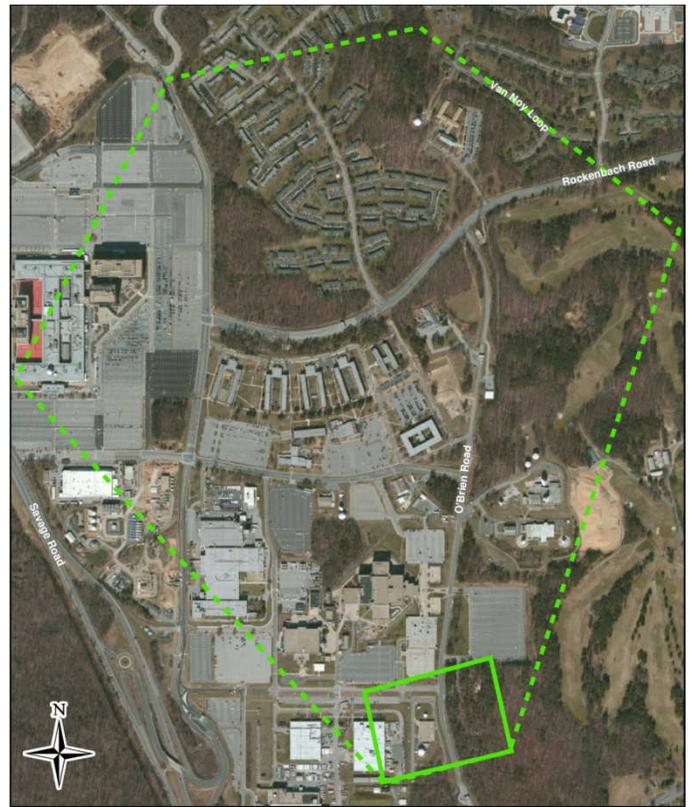
Media of Concern: None identified

Site Location: Grid E4, located in the southwestern portion of the installation, bounded to the west by Brown Road and Building 9705, to the north by Building 9841 and parking lots, to the east by undeveloped property, and to the south by parking lots and undeveloped property. O'Brien Road runs through the middle of the site.

Site Description: Information regarding frequency of use and types of munitions used were unavailable, but .45-cal ammunition is assumed to have been used because it was the common pistol ammunition in the 1920s. The range was identified on a 1924 War Game Map issued by the War Department for Camp Meade. Based on the operation dates of other ranges found on the War Game Map, it is assumed that the pistol range was used from 1924 until the early 1940s. It is also assumed that only small arms were used on site but there is no specific information regarding this. There is no information on any MEC responses conducted on site.

East of O'Brien Road, the suspected range is undeveloped with a walking/jogging trail going through the site. West of O'Brien Road, the range is now within NSA property and is mostly developed with buildings and parking areas. The undeveloped area is forested with heavy shrub growth in some areas.

Previous Studies: Over the course of previous investigations at this site 5 composite surface soil samples were collected as part of the SI and submitted for lead analysis. Lead was detected in soil samples taken at this site at levels below regulatory limits (Malcolm Pirnie, 2007b).



FGGM-006-R-01 - Pistol Range B
0 400 800 1,600
Feet

Current Use: This AOI is within NSA property and is mostly developed with buildings and parking areas.

Current Status: NFA

Cleanup/Exit Strategy: NFA is required.

2.7 Base Realignment and Closure Sites Designated for NFA

2.7.1 FGGM 32 (OU-18) – Fire Training Area (part of Tipton)

Regulatory Driver: CERCLA

Previous Environmental Investigations

Enhanced PA..... 1989
 SI..... 1992
 Ordnance and Explosives Removal
 Action 1997
 RI..... 1998
 Removal Action Report 1998
 ESD Draft 2011

Contaminants of Potential Concern: None identified

Media of Concern: None identified

Site Location: Grid E5, The 2-acre former FTA was located in the northern portion of Tipton Army Airfield, off Airfield Road, north of the airfield and east of the Helicopter Hangar Area.

Site Description: The FTA was constructed around 1979 for training purposes by the Fort Meade Fire Department. The northern half of the FTA is fenced off and previously enclosed the fire training pit and adjacent training areas. Fires were typically set inside the pit or in portable burn pans using gasoline or aviation fuel. The fires were then extinguished with water or aqueous foam, a synthetic extinguishing agent. Other emergency response training, such as self-contained breathing apparatus training and emergency rescues, were performed at this location. An oil-water separator located on the south side of the fire training pit was used in draining the pit. Water from the separator was transported from the site via an underground pipeline to a sanitary sewer. Both the fire training pit and oil-water separator were removed in 1998.

Previous Studies: The TAP OU ROD presents the final remedy for soils as NFA.



FGGM 32 - Fire Training Area
 0 30 60 120 Feet

Current Use: Vacant land, part of Tipton Airfield Parcel.

Current Status: 5-year reviews evaluate the frequency and need for continued LTGM; the last 5-year review was conducted in 2011.

Cleanup/Exit Strategy: FGGM 32 will be administratively closed since groundwater is being monitored currently under FGGM 10 for all of Tipton.

2.7.2 FGGM 72 (OU-27) – POL Storage Tanks

Regulatory Driver: CERCLA

Previous Environmental Investigations

INV, CAP, and ISC 1989

Soil Gas Survey 1992

PA..... 2012

Contaminants of Potential Concern: Heating oil

Media of Concern: Soil and groundwater

Site Location: Grid F5, in the northern portion of the Tipton Airfield Parcel (TAP).

Site Description: FGGM 72 consists of Building/Hangar 80 and Building/Hangar 85, which are both located along Airfield Service Road. A steel 4,000-gallon heating oil tank is located at Building 80 and a steel 5,000-gallon heating oil tank is located at Building 85 (Argonne, 1989). The 4,000-gallon UST at Building 80 was installed in June 1988. This tank replaced a steel-constructed, 4,000-gallon UST that failed a leak test in May 1988 and was removed by order of MDE. Contaminated soils excavated during the tank removal were disposed of at the sanitary landfill. The MDE case was closed on 21 June 1988 (EA, 1992b). The present UST is located on the north side of Building 80 and is surrounded by 3 monitoring wells.

The 5,000-gallon UST at Building 85 was installed in November 1975 (EA, 1992). The tank passed a leak test in May 1988.

These USTs stored heating oil for use in the adjacent buildings 80 and 85, respectively. This has been confirmed in the 1991 transfer assembly document and the 1998 de-registration report.

Previous Studies: Over the course of previous investigations at this site 26 soil vapor samples were obtained.



FGGM 72 (OU-27) - POL Storage Tanks, P-080 and P-085



Current Use: The Army has transferred this property and MDE records indicate the USTs were closed in 1998.

Current Status: The EPA approved NFA for this AOI on 23 February 2012.

Cleanup/Exit Strategy: Not applicable, NFA is required for this AOI.

2.7.3 FGGM 73 (OU-28) – Maintenance Shops Buildings 85 and 90

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA..... 1990

SI..... 1992

PA..... 2011

Contaminants of Potential Concern: Not determined

Media of Concern: Not determined

Site Location: Grid E5, in the north-central portion of the Tipton Airfield.

Site Description: This AOI is for the USTs at Buildings 85 and 90. The 5,000 gallon UST at Building 85 was installed in November 1975 (RA, 1992). The tank passed a leak test in May 1988.

Building 90 was constructed in the early 1980s and used for the maintenance and storage of helicopters. In addition to the use of fuels such as aviation and diesel fuel, hydraulic and lubricating oils, detergents, and solvents were also used, handled, or stored. Hangar 90 was cleared and taken out of service when it was decommissioned in early 1996.

Maintenance Shop Building 85 is also part of FGGM 72 – POL Storage Tanks; because the storages tanks include underground storage tanks at buildings 80 and 85. Maintenance Shop Building 90 is also part of FGGM 80 – Helicopter Hangar Area-90 because Building 90 is the Helicopter Hangar Area building.

Previous Studies: Over the course of previous investigations at these AOIs, twelve soil vapor samples were obtained around the UST at Building 85. Low level hydrocarbon contamination (e.g., maximum encountered toluene concentration, 1.6 ppm) was detected at 4 of the twelve vapor sampling locations (EA, 1992).



FGGM 73 (OU-28) - Maintenance Shops, Buildings 85 and 90

Current Use: Part of Tipton Airfield Parcel

Current Status: The PA includes a letter indicating the Army will administratively close AEDB-R number "FGGM 73."

Cleanup/Exit Strategy: FGGM 73 will be administratively closed as this AOI is addressed under FGGM 72 and FGGM 80.

2.7.4 FGGM 80 (OU-32) – Helicopter Hangar 90 (part of Tipton)

Regulatory Driver: CERCLA

Previous Environmental Investigations

PA..... 1989
 SI..... 1992
 RI..... 1998
 Removal Action Report..... 1999
 ESD Draft..... 2011

Contaminants of Potential Concern: Metals, fuels, and oils.

Media of Concern: Soil and groundwater

Site Location: Grid E5, The Helicopter Hangar Area (HHA) is in the northwest corner of the Tipton Army Airfield (TAA), and includes Building 90 (the Helicopter Hangar) and adjacent areas.

Site Description: The HHA - Building 90 and associated structures were constructed in the early 1980s. Hangar 90 was used for the maintenance and storage of helicopters. Typical activities included washing, disassembly, repair, and painting of aircraft. Aviation and diesel fuel, hydraulic and lubricating oils, detergents, and solvents were used, handled, or stored here. Hangar 90 was cleared and taken out of service when it was decommissioned in early 1996.

Previous Studies: Some of studies and reports at Fort Meade that included the BRAC parcels were: an Enhanced PA (1989), a study by the Maryland Department of Natural Resources, a Draft SI Addendum (which included an Environmental Impact Statement (EIS) and a Wetland Identification Study) (1991), an SI (1992), an RI (1998), an Ordnance and Explosives Removal Action (1997), and a Removal Action Report (1999).



FGGM 80 - Helicopter Hangar 90
 0 30 60 120 Feet

Current Use: Part of Tipton Airfield Parcel

Current Status: A 5-year review occurs every 5 years to evaluate the frequency and need for continued LTGM; the last one was conducted in 2011. This ensures the remedy continues to provide adequate protection of human health and the environment.

Cleanup/Exit Strategy: Both RODs selected NFA for soils and groundwater monitoring for the FTA. FGGM 80 will be administratively closed since the ROD presents the final remedy for soils as NFA and groundwater is being monitored currently under FGGM 10 and FGGM 31 for all of Tipton Airfield Parcel.

2.7.5 FGGM 82 (OU-34) – Unexploded Ordnance Removal

Regulatory Driver: CERCLA

Previous Environmental Investigations

Enhanced PA.....	1989
PA.....	1990
Ordnance Survey and Removals	1992, 1993
RA(C)	1997
Engineering Evaluation.....	2001
NTCRA Memorandum	2001
LTM.....	2001
NTCRAs	2003-2004
OE Removal Action	2006
Recurring Review Report.....	2008

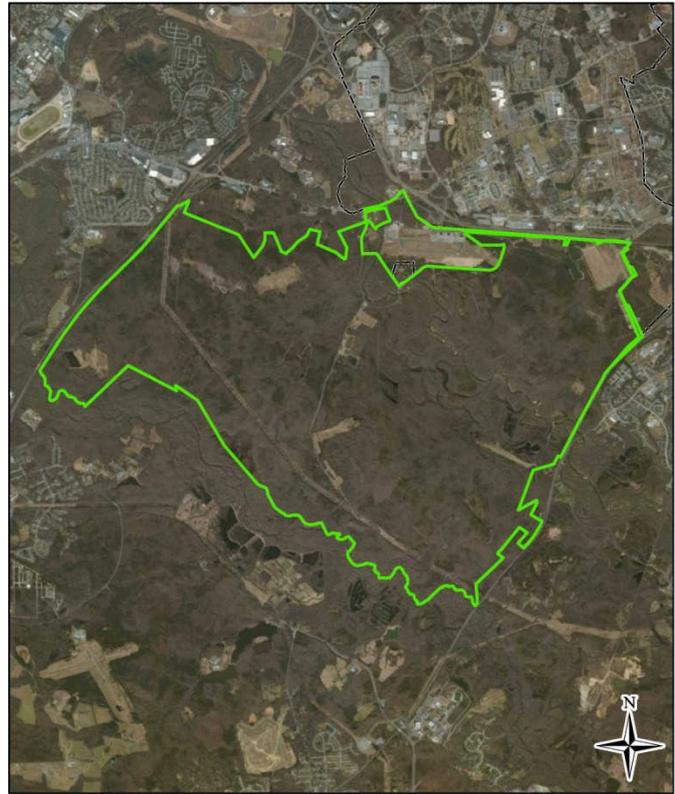
Contaminants of Potential Concern: MEC

Media of Concern: Soil

Site Location: Grids A5 through F10, FGGM 82 covers the entire PRR-NT.

Site Description: FGGM 82 is the Installation Restoration Program (IRP) designation for unexploded ordnance removal in the PRR-NT. FGGM 002-R-01 is the MMRP designation for MEC work at the PRR-NT.

Previous Studies: Several sweeps of the PRR-NT occurred in the past and in 2001, an Action Memorandum selected LUCs with surface and subsurface clearance to depth in selected areas. A Non-Time Critical Removal Action (NTCRA) was completed for 24 areas located within the PRR-NT identified by the USFWS as high traffic areas. LUCs include the education of workers and recreational users regarding potential residual OE hazards that may be associated with the property and identification of proper notifications if any OE is encountered.



FGGM 82 (OU-34) -- Unexploded Ordnance Removal
 0 2,500 5,000 10,000
 Feet

Current Use: Patuxent Research Refuge.

Current Status: The PA includes a letter indicating the Army will administratively close AEDB-R number "FGGM 82."

Cleanup/Exit Strategy: Funding for work on the PRR-NT was moved from the IRP to the MMRP and FGGM 82 is recommended for administrative closure. Future work will fall under the designation High Explosive Impact and Disposal Area FGGM 002-R-01. Continuing site work (including MEC issues) will still be addressed under FGGM 002-R-01 after FGGM 82 is administratively closed.

3.0 Site Management Schedules

This section describes the proposed future work actions and schedules for the FGGM sites that require further action. Schedules depicting the major project activities for each site are provided. These schedules are tentative, based on funding allocation, completion of removal actions, and government comments received for the reports. The work actions and schedules will be updated on a yearly basis.

3.1 Assumptions for Site Management Plan Schedules

The following assumptions were developed as generic guidelines for duration of tasks. The durations are generic because the level of effort for a site is unknown until further investigation is performed. Where site specific schedules were available, the generic durations were modified.

As discussed in Section 2, some FGGM sites are ongoing and some sites are newly identified where little, if any, work has been conducted. The generic SMP schedule durations were adjusted to identify the current phase of work being performed at the time this document was written.

3.2 Site Management Plan Schedules

Table 3-1 below is a summary of submittals due until the next amendment of the SMP (through June 15, 2013). All schedules will be updated yearly, as the SMP is updated. Table 3-2 on the following pages includes detailed project schedules for out years for Open sites at Fort Meade. Additionally, Table 3-3 is a list of the PA/SI AOIs grouped by geographic areas, to assist the reader in determining the correct schedule for a specific PA/SI AOI. Milestones (due dates) for some AOIs presented in Table 3-2 of this document have changed from the milestones presented in the Final 2011 Amended SMP.

Whenever "EPA reviews" appear in the project schedules it is understood to mean the EPA and appropriate signatories of the Fort Meade FFA. What constitutes "appropriate" is determined by ownership and/or proximity to the site, i.e., the USAOC will review all documents pertaining to the USAOC Campus (concurrent with the EPA) and if there is known or suspected impacts to the USAOC Campus by an adjacent cleanup site i.e., OU-4 or the OU-5 (DRMO site). Review of these sites will also be done concurrent with EPA review. Neither site is owned by USAOC, but both sites have contaminated groundwater that has been observed on the USAOC Campus. The CSL, OU-12 is located very close to the Campus; however, the site is hydraulically down and cross gradient from the USAOC Campus. With no data to suggest the CSL can affect the USAOC Campus, the Army would not provide documents about the CSL to USAOC, unless specifically requested by USAOC.

Table 3-1: Summary of Submittals due Through June 15, 2013

Document	Submittal Date
Submit Draft 2012 SMP	6/15/2012
Submit Final 2012 SMP	10/15/2012
FGGM 07 (OU-5) DRMO Drum Site	
Draft Supplemental Army RI Data Report	5/29/12
Draft Final Supplemental Army RI Data Report	8/28/12
Final Supplemental Army RI Data Report	10/29/12
Draft RI Work Plan	3/8/13
Draft Final RI Work Plan	6/7/13
FGGM 13 (OU-10) Former Pesticide Shop Bldg. 6621	
Final FS	6/12/2012
Draft Final Proposed Plan	5/18/2012
Final Proposed Plan	8/27/2012
Draft Final Decision Document	7/10/2012
Final Decision Document	10/16/2012
Draft Final Remedial Design	11/9/2012
Final Remedial Design	2/26/2013
Draft Final Remedial Action Report	4/1/2013
Final Remedial Action Report	6/13/2013
Draft Final Annual Report	1/24/2013
Final Annual Report	3/11/2013
FGGM 17 (OU-12) CSL	
Draft-Final FS	7/02/2012
Final FS	10/16/2012
Draft Final Proposed Plan	10/24/2012
Final Proposed Plan	2/01/2013
Draft Final Decision Document	2/20/2013
Final Decision Document	5/29/2013
Draft Final Remedial Design	6/13/2013
Final Semi-Annual Interim Report	6/12/2012
Final Annual Report	12/11/2012
Final Semi-Annual Interim Report	6/13/2013

Document	Submittal Date
FGGM 31, Tipton Inactive Landfill 2	
Clearing Vegetation from the Perimeter Fence Draft Final Report	7/6/2012
Clearing Vegetation from the Perimeter Fence Final Report	8/10/2012
2012 Inactive Landfill 2 Maintenance Draft Report	8/14/2012
2012 Inactive Landfill 2 Maintenance Draft Final Report	12/4/2012
2012 Inactive Landfill 2 Maintenance Final Report	2/26/2013
FGGM 47, 49, 86, 88, 89, 90, 91, 92 (OU-4) & 125d and 126d	
Final Indoor Air Sampling Work Plan	6/14/2012
Final Approval Memorandum	9/19/2012
Draft Final Engineering Evaluation/Cost Analysis	8/7/2012
Final Engineering Evaluation/Cost Analysis	12/17/2012
Draft Final Interim Action Work Plan	2/13/2013
FGGM 74 (OU-29) Architect of the Capitol	
Final RI Report	8/21/2012
Draft Final Feasibility Study	9/26/2012
Final Feasibility Study	12/12/2012
Draft Final Proposed Plan	1/16/2013
Final Proposed Plan	3/29/2013
Draft Final Decision Document	5/10/2013
FGGM 83 (OU-1) Former Trap And Skeet Range	
Final RI Report	9/28/2012
Draft FS	3/19/2013
FGGM 87 (OU-3) Former Nike Control Site	
Final RI Report	8/14/2012
Draft FS	3/04/2013
FGGM 93 (OU-36) Manor View Dump	
Draft Final Interim Remedial Action Report	8/14/2012
Final Interim Remedial Action Report	10/26/2012
Revised Draft Final FS	8/16/2012
Final FS	12/3/2012
Draft-Final Proposed Plan	11/6/2012
Final Proposed Plan	2/5/2012
Draft Final Decision Document	3/5/2013

Document	Submittal Date
Draft Final Remedial Design	6/7/2013
Draft Final Annual Report	2/13/2013
Final Annual Report	3/29/2013
PA/SI AOIs (includes FGGMs 08, 09, 11, 14, 18, 19, 21, 32, 33, 37, 45, 51, 70, 71, 72, 73, 75, 80, 82, 95 and 96)	
Draft PA/SI Northern Areas of Interest Report	11/28/2012
Draft Final PA/SI Northern Areas of Interest Report	3/28/2012
Draft PA/SI Southeastern Areas of Interest Report	1/17/2013
Draft Final PA/SI Southeastern Areas of Interest Report	5/17/2013
Draft PA/SI Southwestern Areas of Interest Report	2/16/2013
Draft PA/SI BRAC/Other Areas of Interest Report	2/6/2013
Draft Final PA/SI BRAC/Other Areas of Interest Report	6/6/2013
FGGM 003-R (OU-40) Mortar Range MRA (MMRP)	
Final RI Report	9/30/2011
Draft-Final Feasibility Study	5/25/2012
Final Feasibility Study	8/16/2012
Draft Final Proposed Plan	6/8/2012
Final Proposed Plan	8/28/2012
Draft Final Decision Document	8/31/2012
Final Decision Document	11/20/2012
Draft Final Remedial Design	9/14/2012
Final Remedial Design	12/4/2012
Draft Final Remedial Action Report	2/27/2013
Final Remedial Action Report	4/12/2013
FGGM 10 (OU-8) Tipton Groundwater OU (BRAC)	
2012 Combined BRAC GW OUs LTM Draft Report	10/28/2012
2012 Combined BRAC GW OUs LTM Draft Final Report	1/28/2013
2012 Combined BRAC GW OUs LTM Final Report	4/19/2013
FGGM 20 (OU-15) Ordnance Demo Area (BRAC)	
2012 Combined BRAC GW OUs LTM Draft Report	9/28/2012
2012 Combined BRAC GW OUs LTM Draft Final Report	1/28/2013
2012 Combined BRAC GW OUs LTM Final Report	4/19/2013
ODA Draft LUCRD	8/24/2012

Document	Submittal Date
ODA Draft Final LUCRD	10/22/2012
ODA Final LUCRD	1/14/2013
FGGM 31 (OU-17) Inactive Landfill 3 (part of Tipton, BRAC)	
2012 Combined BRAC GW OUs LTM Draft Report	9/28/2012
2012 Combined BRAC GW OUs LTM Draft Final Report	1/28/2013
2012 Combined BRAC GW OUs LTM Final Report	4/19/2013
FGGM 81 (OU-33) Clean Fill Dump	
2012 Combined BRAC GW OUs LTM Draft Report	9/28/2012
2012 Combined BRAC GW OUs LTM Draft Final Report	1/28/2013
2012 Combined BRAC GW OUs LTM Final Report	4/19/2013
FGGM 85 (OU-35) MEC Tipton Airfield Parcel	
2012 Inactive Landfills Maintenance Draft Report	8/14/2012
TAP Draft Final ESD	10/21/2012
2012 LPR Sweep LTM Draft Report	11/9/2012
2012 Inactive Landfills Maintenance Draft Final Report	12/4/2012
TAP Final ESD	12/19/2012
2012 Inactive Landfills Maintenance Final Report	2/26/2013
2012 LPR Sweep LTM Draft Final Report	3/1/2013
TAP Draft LUCRD Report	10/12/2013
2012 LPR Sweep LTM Final Report	5/22/2013
FGGM 94 (OU-37) Trap And Skeet Range 17 (BRAC)	
Trap and Skeet Range 17 WP Addendum Draft Report	7/24/2012
Trap and Skeet Range 17 WP Addendum Draft Final Report	11/19/2012
Trap and Skeet Range 17 WP Addendum Final Report	2/14/2013
Trap and Skeet Range 17 Revised RI/FS Draft Report	3/28/2013
FGGM 002-R-01 (OU-39) High Explosive Impact and Disposal Area (BRAC MMRP)	
Draft HEI Area Proposed Plan	9/30/2012
Draft Final HEI Area Proposed Plan	11/30/2012
Final HEI Area Proposed Plan	2/28/2013
HEI Area Draft ROD	3/31/2013
HEI Area Draft Final ROD	5/20/2013

Document	Submittal Date
Off-Post Groundwater Investigation — Nevada Avenue Area	
Draft Final Work Plan	5/31/11
Final Work Plan	7/29/11
Monitoring Well Installation Complete	11/1/12
Monitoring Well Sampling Complete	4/1/13
Private Well Sampling Complete (Option Year 2)	3/1/13
Draft Final Off Post Private Well Investigation: Additional Investigations Findings Report	9/18/13
Final Off Post Private Well Investigation: Additional Investigations Findings Report	11/19/13

Tables 3-2: Project Schedules for Open Sites at Fort Meade

Table 3-2 Project Schedules for Open Sites at Fort Meade

ID	Task Name	Duration	Start	Finish	1st Quarter												2nd Quarter												3rd Quarter												4th Quarter											
					Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	FGGM 83 (OU-1) Former Trap And Skeet Range	3327 days	Sun 6/1/08	Mon 7/10/17																																																
2	RI Report	1641 days	Sun 6/1/08	Tue 11/27/12																																																
3	Site Specific Terrestrial Ecological Risk Assessment Field Study Workplan	104 days	Sun 6/1/08	Fri 9/12/08																																																
4	Regulatory Review/Comment	209 days	Sat 9/13/08	Thu 4/6/09																																																
5	Work Plan Addendum/Regulatory Review/Responses	41 days	Fri 4/10/09	Wed 5/20/09																																																
6	Regulatory No Further Comment Letters for Work Plan Addendum	40 days	Thu 5/20/10	Mon 6/28/10																																																
7	Sediment Sampling	2 days	Mon 7/26/10	Tue 7/27/10																																																
8	Analytical Data Review and Validation	45 days	Wed 7/28/10	Fri 9/10/10																																																
9	Draft RI	653 days	Fri 9/10/10	Sat 6/23/12																																																
10	Draft RI Report (including Ecological Risk Assessment)	57 days	Fri 9/10/10	Fri 11/5/10																																																
11	Army review of Draft RI	30 days	Sat 11/6/10	Sun 12/5/10																																																
12	Responses to Army Draft RI comments/Telecon to resolve	10 days	Tue 12/7/10	Thu 12/16/10																																																
13	Army approval of Draft RI	0 days	Mon 12/20/10	Mon 12/20/10																																																
14	Draft RI to USEPA and MDE	1 day	Tue 12/21/10	Tue 12/21/10																																																
15	EPA/MDE Review of Draft RI - Comments provided	78 days	Thu 12/23/10	Thu 3/10/11																																																
16	Prepare RTCs of Regulator Comments / Revise Draft RI	20 days	Fri 3/11/11	Wed 3/30/11																																																
17	Submit Draft RI RTCs to Army for Review	5 days	Thu 3/31/11	Mon 4/4/11																																																
18	Submit Draft RI RTCs to EPA/MDE for Review	2 days	Tue 4/5/11	Wed 4/6/11																																																
19	Telecon Meeting with Army/EPA/MDE for RI RTC Review	0 days	Wed 4/6/11	Wed 4/6/11																																																
20	Prepare Telecon Meeting Minutes	9 days	Thu 4/7/11	Fri 4/15/11																																																
21	Telecon meeting minutes submitted to EPA/MDE for Review	0 days	Fri 4/15/11	Fri 4/15/11																																																
22	EPA/MDE Review of Telecon Meeting Minutes - Comments Provided	12 days	Sat 4/16/11	Wed 4/27/11																																																
23	Status Update	0 days	Mon 2/13/12	Mon 2/13/12																																																
24	Prepare Revised Draft RI RTCs	16 days	Mon 2/13/12	Tue 2/28/12																																																
25	Submit Revised Draft RI RTCs to Army for Review	0 days	Tue 2/28/12	Tue 2/28/12																																																
26	Prepare Final Revision 3 RTCs	7 days	Wed 2/29/12	Tue 3/6/12																																																
27	Submit Final Revision 3 RTC to Army for Review	0 days	Tue 3/6/12	Tue 3/6/12																																																
28	Prepare Final Complete Draft RI RTCs	45 days	Wed 3/7/12	Fri 4/20/12																																																
29	Submit Final Complete Draft RI RTCs to EPA/MDE for Review	0 days	Fri 4/20/12	Fri 4/20/12																																																
30	Army Concurrence Final Complete Draft RI RTCs	4 days	Sat 4/21/12	Tue 4/24/12																																																
31	EPA/MDE Review of Draft RI RTCs	60 days	Wed 4/25/12	Sat 6/23/12																																																
32	EPA/MDE Concurrence of Draft RI RTCs	0 days	Sat 6/23/12	Sat 6/23/12																																																
33	Final RI	167 days	Sun 6/24/12	Tue 11/27/12																																																
34	Prepare Final RI	30 days	Sun 6/24/12	Mon 7/23/12																																																
35	Submit Final RI to Army for Review	2 days	Tue 7/24/12	Wed 7/25/12																																																
36	Army Review of Final RI	30 days	Thu 7/26/12	Fri 8/24/12																																																
37	Revise Final RI in accordance with Army Comments	30 days	Sat 8/25/12	Sun 9/23/12																																																
38	Submit Final RI Report to EPA/MDE for Review	5 days	Mon 9/24/12	Fri 9/28/12																																																
39	EPA/MDE Review of Final RI	60 days	Sat 9/29/12	Tue 11/27/12																																																
40	EPA/MDE Approval of Final RI	0 days	Tue 11/27/12	Tue 11/27/12																																																
41	Feasibility Study	581 days	Mon 9/24/12	Sun 4/27/14																																																
42	FS Task Work (may include supplemental sampling)	18 days	Mon 9/24/12	Thu 10/11/12																																																
43	Draft FS	172 days	Wed 11/28/12	Sat 6/18/13																																																
44	Prepare Draft FS	45 days	Wed 11/28/12	Fri 1/11/13																																																
45	Submit Draft FS to Army for Review	2 days	Sat 1/12/13	Sun 1/13/13																																																
46	Army Review of Draft FS	30 days	Mon 1/14/13	Tue 2/12/13																																																
47	Revise Draft FS RTCs in accordance with Army Comments	30 days	Wed 2/13/13	Thu 3/14/13																																																
48	Submit Draft FS to EPA/MDE	5 days	Fri 3/15/13	Tue 3/19/13																																																
49	EPA/MDE Review of Draft FS	60 days	Wed 3/20/13	Sat 5/18/13																																																
50	Draft FS (Revision 1)	187 days	Sun 5/19/13	Thu 11/21/13																																																
51	Prepare RTCs for Draft FS	60 days	Sun 5/19/13	Wed 7/17/13																																																
52	Submit Draft FS RTCs to Army for Review	2 days	Thu 7/18/13	Fri 7/19/13																																																
53	Army Review of Draft FS RTCs	30 days	Sat 7/20/13	Sun 8/18/13																																																
54	Revise Draft FS (Revision 1) and Update Draft FS RTCs in accordance with Army Comments	30 days	Mon 8/19/13	Tue 9/17/13																																																
55	Submit Draft FS RTCs and Draft FS (Revision 1) to EPA/MDE for Review	5 days	Wed 9/18/13	Sun 9/22/13																																																
56	EPA/MDE Review of Draft FS and RTCs (Revision 1)	60 days	Mon 9/23/13	Thu 11/21/13																																																
57	Final FS	167 days	Fri 11/22/13	Sun 4/27/14																																																
64	Proposed Plan (PP)	327 days	Mon 4/28/14	Fri 3/20/16																																																
80	Record of Decision (ROD)	313 days	Sat 3/21/15	Wed 1/27/16																																																
95	Remedial Design (RD)	263 days	Thu 1/28/16	Thu 10/6/16																																																
110	Remedial Action (Construction)	120 days	Fri 10/7/16	Fri 2/3/17																																																
112	Remedial Action Completion Report (RACR)	167 days	Sat 2/4/17	Mon 7/10/17																																																

Project: SMP Schedule
Date: Thu 5/17/12

	Task		Inactive Task		Manual Task		Manual Summary
	Submittal to Regulatory Agency		Inactive Milestone		Duration-only		Start-only
	Summary		Inactive Summary		Manual Summary Rollup		Finish-only

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4/26/12

FGGM OU-5 Schedule

ID	Task Name	Start	Finish	Duration	Predecessors
1	Contract Negotiations	Tue 4/5/11	Wed 2/1/12	210 days	
2	Remedial Investigation RTCs (2002-2010 RTCs)	Thu 2/2/12	Wed 7/10/19	1889 days	
3	Army submit 2011 D supplemental RI report	Mon 5/7/12	Fri 5/25/12	15 days	
4	EPA/MDE review D Supplemental RI report	Tue 5/29/12	Thu 7/26/12	42 days	3
5	Army address comments on D Supplemental RI report, submit DF	Fri 7/27/12	Mon 8/27/12	22 days	4
6	EPA/MDE review DF Supplemental RI report	Tue 8/28/12	Thu 9/27/12	22 days	5
7	Army address comments on DF Supplemental RI report, submit F	Fri 9/28/12	Mon 10/29/12	22 days	6
8	EPA/MDE review and approve F Supplemental RI Report	Tue 10/30/12	Fri 11/30/12	22 days	7
9	Regulatory Meeting/Teleconference- next steps/outstanding issues	Mon 12/24/12	Mon 12/24/12	1 day	8FS+15 days
10	Supplemental RI Work	Wed 12/26/12	Wed 5/28/14	362 days	
11	Draft Supplemental RI WP (GW, Sed, Soil)	Wed 12/26/12	Fri 1/25/13	22 days	9
12	Army Review	Mon 1/28/13	Fri 2/15/13	15 days	11
13	Address Army comments on Supplemental WP and submit D to EPA/MDE	Mon 2/18/13	Fri 3/8/13	15 days	12
14	EPA/MDE review D RI WP	Mon 3/11/13	Tue 5/7/13	42 days	13
15	Address comments on D RI WP, submit DF	Wed 5/8/13	Fri 6/7/13	22 days	14
16	EPA/MDE review DF RI WP	Mon 6/10/13	Wed 7/10/13	22 days	15
17	Address EPA and MDE Comments, submit F WP	Thu 7/11/13	Wed 7/31/13	15 days	16
18	Final RI Work Plan	Thu 8/1/13	Thu 8/1/13	1 day	17
19	QAPP, SAP, and HASP Addendums	Wed 12/26/12	Tue 4/16/13	79 days	
25	Access Coordination	Thu 7/11/13	Wed 7/17/13	5 days	9,11,17SS
26	Negotiate ROE agreement at PRR-NT	Thu 7/11/13	Mon 9/9/13	42 days	9,11,17SS
27	Subcontract modifications (lab)	Thu 7/11/13	Wed 7/17/13	5 days	9,11,17SS
28	Field work (GW, Soil, and/or Sed)	Tue 9/10/13	Wed 11/20/13	52 days	
29	Field work and Site Access Prep	Tue 9/10/13	Wed 10/9/13	22 days	27,25,24FS+5 days,26,13,17
30	Data - Lab Analysis	Thu 10/10/13	Wed 10/30/13	15 days	29
31	Data - Validation	Thu 10/31/13	Wed 11/20/13	15 days	30
32	VI Workplan	Wed 12/26/12	Wed 7/3/13	134 days	
33	Draft VI WP	Wed 12/26/12	Fri 1/25/13	22 days	9
34	Army VI WP review	Mon 1/28/13	Fri 2/15/13	15 days	33
35	Address Army WP comments including Army review and approval	Mon 2/18/13	Fri 3/8/13	15 days	34
36	DF VI WP to EPA and MDE	Mon 3/11/13	Tue 5/7/13	42 days	35
37	Address EPA and MDE Comments	Wed 5/8/13	Tue 5/21/13	10 days	36
38	Army review RTCs and submit	Wed 5/22/13	Wed 6/12/13	15 days	37
39	Final RTCs and EPA/MDE approval	Thu 6/13/13	Wed 7/3/13	15 days	38
40	Field work (VI)	Fri 7/5/13	Tue 12/10/13	110 days	
41	Round 1 (warm weather)	Fri 7/5/13	Thu 8/22/13	35 days	
42	Field work and Site Access Prep	Fri 7/5/13	Thu 7/11/13	5 days	39
43	Data - Lab Analysis	Fri 7/12/13	Thu 8/1/13	15 days	42
44	Data - Validation	Fri 8/2/13	Thu 8/22/13	15 days	43
45	Round 2 (cool weather, heating season)	Mon 10/21/13	Tue 12/10/13	35 days	
46	Field work	Mon 10/21/13	Fri 10/25/13	5 days	42FS+70 days

4/26/12

FGGM OU-5 Schedule

ID	Task Name	Start	Finish	Duration	Predecessors
47	Data - Lab Analysis	Mon 10/28/13	Fri 11/15/13	15 days	46
48	Data - Validation	Mon 11/18/13	Tue 12/10/13	15 days	47
49	RI Tech Report report (addressing 2002-2010 RTCs)	Wed 12/11/13	Wed 5/28/14	118 days	
50	Draft RI Tech Report	Wed 12/11/13	Thu 1/2/14	15 days	28,40
51	Army review RI Tech Report	Fri 1/3/14	Thu 1/23/14	15 days	50,44,48
52	Address Army comments on RI Tech Report	Fri 1/24/14	Thu 1/30/14	5 days	51
53	RI Tech Report to EPA and MDE and Review	Fri 1/31/14	Mon 3/31/14	42 days	52
54	Meeting with EPA to discuss RI Tech Report	Tue 4/1/14	Tue 4/1/14	1 day	53
55	Address EPA and MDE Comments	Wed 4/2/14	Tue 4/15/14	10 days	54
56	Army review RTCs and submit	Wed 4/16/14	Tue 5/6/14	15 days	55
57	Final RTCs and EPA/MDE approval	Wed 5/7/14	Wed 5/28/14	15 days	56
58	Database prep for BRA	Thu 2/2/12	Tue 12/17/13	477 days	
59	Gather data from ERIS, Army, other contractors, manual entry	Thu 2/2/12	Wed 4/4/12	45 days	1
60	Incorporate new GW, SW, Sed, VI data	Wed 12/11/13	Tue 12/17/13	5 days	59,31,48
61	RI	Wed 12/18/13	Fri 10/16/15	466 days	
62	Baseline Risk Assessment	Wed 12/18/13	Fri 12/5/14	246 days	
63	BRA Prep	Wed 12/18/13	Mon 1/20/14	22 days	60
64	Incorporate VI data	Tue 1/21/14	Wed 2/19/14	22 days	63,48
65	Army review BRA	Thu 2/20/14	Fri 4/18/14	42 days	64
66	Revise BRA and Address Army comments	Mon 4/21/14	Tue 5/20/14	22 days	65
67	Submit Draft BRA to EPA and MDE for review	Wed 5/21/14	Mon 7/21/14	42 days	66,56
68	Meeting with EPA/MDE	Thu 6/12/14	Thu 6/12/14	1 day	67SS+15 days
69	Address EPA and MDE Comments on BRA	Tue 7/22/14	Wed 8/20/14	22 days	68,67
70	Army review RTCs	Thu 8/21/14	Mon 9/22/14	22 days	69
71	Resubmit DF BRA	Tue 9/23/14	Mon 10/6/14	10 days	70
72	Finalize RTCs including final Army review for EPA/MDE Approval	Tue 10/7/14	Fri 12/5/14	42 days	71
73	RI Report	Thu 5/29/14	Fri 10/16/15	353 days	
74	Draft RI Report	Thu 5/29/14	Fri 6/27/14	22 days	60,49
75	Army review RI	Mon 12/8/14	Thu 2/5/15	42 days	72
76	Address RTCs	Fri 2/6/15	Thu 2/26/15	15 days	75
77	Army review RTCs	Fri 2/27/15	Thu 3/19/15	15 days	76
78	Submit Draft RI to EPA and MDE for Review	Fri 3/20/15	Mon 5/18/15	42 days	77
79	EPA/MDE review extension (30 calendar days)	Tue 5/19/15	Thu 6/18/15	22 days	78
80	Prepare RTCs including Army review	Fri 6/19/15	Tue 8/18/15	42 days	79
81	Resubmit to EPA/MDE for Final review and approval of RI	Wed 8/19/15	Fri 10/16/15	42 days	80
82	FS	Tue 5/19/15	Tue 5/24/16	259 days	
83	Prepare Internal Draft FS	Tue 5/19/15	Thu 6/18/15	22 days	78
84	Army review FS	Fri 6/19/15	Tue 8/18/15	42 days	83
85	Address Army Comments	Wed 8/19/15	Wed 9/9/15	15 days	84
86	Army review RTCs	Thu 9/10/15	Fri 10/9/15	22 days	85
87	Submit Draft FS to EPA and MDE for Review	Mon 10/12/15	Thu 12/10/15	42 days	86

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FGGM OU-5 Schedule

ID	Task Name	Start	Finish	Duration	Predecessors
88	Prepare RTCs	Fri 12/11/15	Mon 1/4/16	15 days	87
89	Army Review RTCs and Finalize RTCs	Tue 1/5/16	Mon 1/25/16	15 days	88
90	Submit DF FS To EPA/MDE	Tue 1/26/16	Wed 3/23/16	42 days	89
91	Address EPA/MDE comments including Army review and approval	Thu 3/24/16	Fri 4/22/16	22 days	90
92	Final FS including EPA/MDE review and approval	Mon 4/25/16	Tue 5/24/16	22 days	91
93	PP	Fri 12/11/15	Thu 7/13/17	404 days	
94	Prepare Draft PP	Fri 12/11/15	Wed 1/13/16	22 days	87
95	Army Review Draft PP (including legal)	Mon 4/25/16	Wed 6/22/16	42 days	94,91
96	Address Army Comments	Thu 6/23/16	Thu 7/14/16	15 days	95
97	Submit Draft PP to EPA/MDE	Fri 7/15/16	Fri 7/15/16	1 day	96,92
98	EPA/MDE Review and comment	Mon 7/18/16	Wed 9/14/16	42 days	97
99	Respond to EPA/MDE Comments	Thu 9/15/16	Wed 10/5/16	15 days	98
100	Submit RTC to Army for review	Thu 10/6/16	Thu 10/6/16	1 day	99
101	Army Review PP RTCs	Fri 10/7/16	Thu 10/27/16	15 days	100
102	Re-Submit Draft Final PP to EPA/MDE	Fri 10/28/16	Fri 10/28/16	1 day	101
103	EPA/MDE Review	Mon 10/31/16	Fri 12/30/16	42 days	102
104	Address EPA/MDE comments	Tue 1/3/17	Mon 1/23/17	15 days	103
105	Newspaper Notice (2 week min)	Mon 1/30/17	Fri 2/10/17	10 days	104FS+5 edays
106	Public Meeting	Mon 2/13/17	Mon 2/13/17	1 day	105
107	Public Comment Period (30 day min)	Tue 2/14/17	Wed 3/15/17	22 days	106
108	Finalize PP to incorporate Public Comments	Thu 3/16/17	Wed 4/5/17	15 days	107
109	Army Review	Thu 4/6/17	Wed 4/26/17	15 days	108
110	Submit to EPA/MDE	Thu 4/27/17	Thu 4/27/17	1 day	109
111	EPA/MDE review	Fri 4/28/17	Tue 5/30/17	22 days	110
112	Address EPA/MDE comments including Army review and approval	Wed 6/7/17	Fri 7/7/17	22 days	111FS+5 days
113	Distribute Final PP	Thu 7/13/17	Thu 7/13/17	1 day	112FS+3 days
114	ROD	Tue 1/24/17	Tue 11/21/17	213 days	
115	Internal Draft ROD	Tue 1/24/17	Thu 4/13/17	58 days	
116	Prepare Internal Draft ROD	Tue 1/24/17	Mon 2/13/17	15 days	104
117	Submit Draft ROD to Army	Tue 2/14/17	Tue 2/14/17	1 day	104,116
118	Army Review (including legal)	Wed 2/15/17	Thu 4/13/17	42 days	117
119	Draft ROD	Fri 4/14/17	Thu 7/27/17	73 days	
120	Respond to Army comments on Draft ROD	Fri 4/14/17	Thu 5/4/17	15 days	118
121	Army review RTCs and complete Draft ROD	Fri 5/5/17	Thu 5/25/17	15 days	120
122	Submit Draft ROD to EPA/MDE	Fri 5/26/17	Fri 5/26/17	1 day	118,104,121
123	EPA/MDE Review	Tue 5/30/17	Thu 7/27/17	42 days	103,107,122
124	Draft Final ROD	Fri 7/28/17	Fri 9/1/17	26 days	
125	Respond to EPA/MDE comments	Fri 7/28/17	Thu 8/10/17	10 days	123
126	Submit RTC to Army for review	Fri 8/11/17	Fri 8/11/17	1 day	125
127	Army Review of ROD RTCs	Mon 8/14/17	Fri 9/1/17	15 days	126
128	Final ROD	Tue 9/5/17	Tue 11/21/17	56 days	

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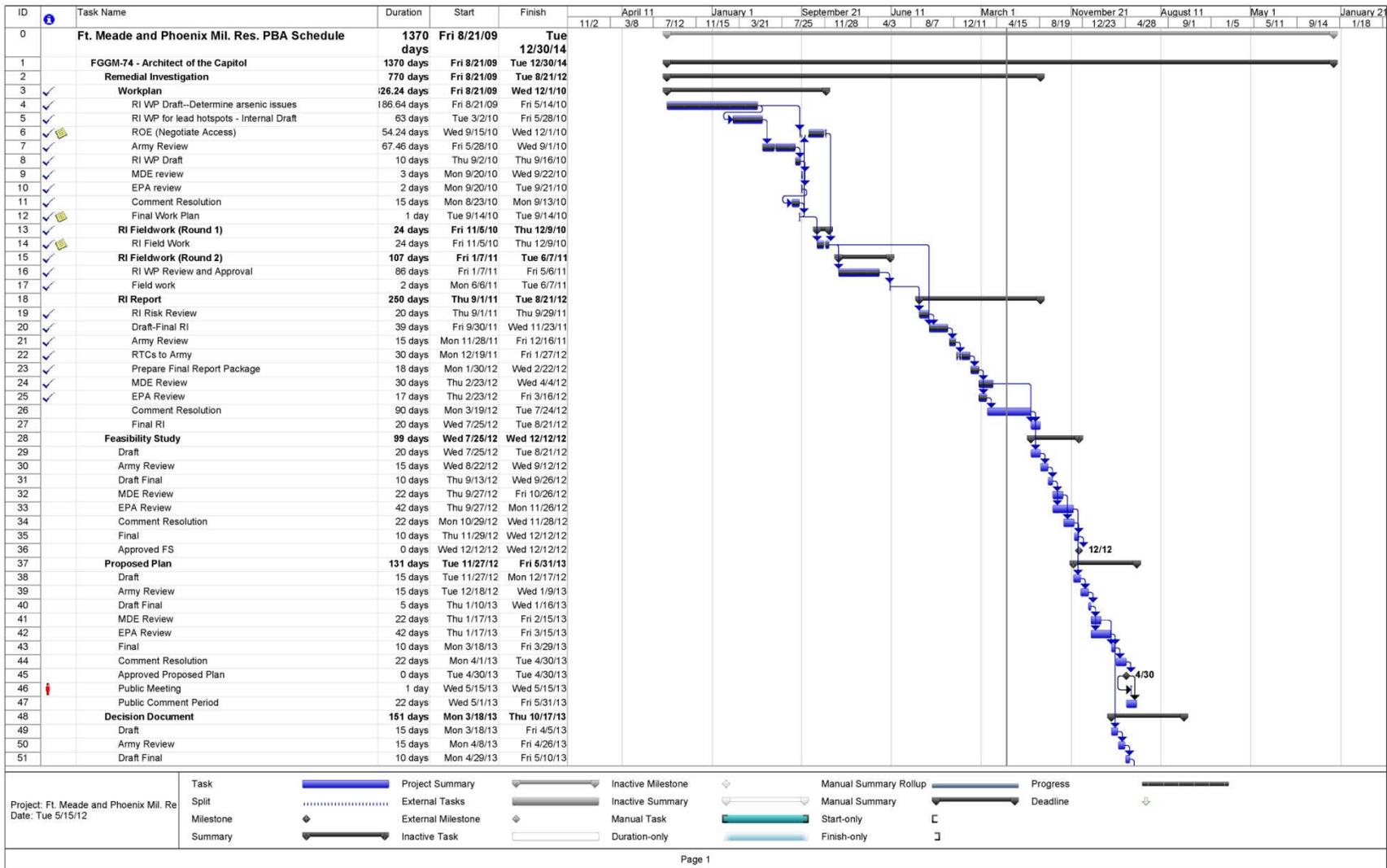
FGGM OU-5 Schedule

ID	Task Name	Start	Finish	Duration	Predecessors
129	Submit Final ROD to EPA/MDE	Tue 9/5/17	Tue 9/5/17	1 day	127
130	Army Signature	Wed 9/6/17	Thu 10/5/17	22 days	129
131	EPA Review and Signature	Mon 10/16/17	Tue 11/14/17	22 days	107,130FS+10 edays
132	MDE Review and Concurrence	Mon 10/16/17	Tue 11/14/17	22 days	107,130FS+10 edays
133	Regulatory approval of ROD	Wed 11/15/17	Wed 11/15/17	1 day	130,131,132
134	Distribute Final ROD to EPA/MDE	Tue 11/21/17	Tue 11/21/17	1 day	133FS+3 days
135	Remedial Design	Tue 9/5/17	Fri 7/20/18	223 days	
136	RD	Tue 9/5/17	Fri 7/20/18	223 days	
137	Internal Draft RD	Tue 9/5/17	Wed 12/6/17	65 days	
138	Prepare Draft RD and LUC RD	Tue 9/5/17	Wed 10/4/17	22 days	124
139	Submit draft RD to Army	Thu 10/5/17	Thu 10/5/17	1 day	138,129
140	Army Review	Fri 10/6/17	Wed 12/6/17	42 days	139
141	Draft RD	Thu 12/7/17	Wed 2/21/18	53 days	
142	Respond to Army comments on draft RD	Thu 12/7/17	Thu 12/28/17	15 days	140
143	Army review RTCs	Fri 12/29/17	Fri 1/19/18	15 days	142
144	Submit Draft RD to EPA/MDE	Mon 1/22/18	Mon 1/22/18	1 day	143
145	EPA/MDE review	Tue 1/23/18	Wed 2/21/18	22 days	144
146	Draft Final RD	Thu 2/22/18	Mon 5/7/18	53 days	
147	Address EPA/MDE comments	Thu 2/22/18	Wed 3/14/18	15 days	145
148	Army review RTCs	Thu 3/15/18	Wed 4/4/18	15 days	147
149	Submit Draft Final RD to EPA/MDE	Thu 4/5/18	Thu 4/5/18	1 day	148
150	EPA/MDE review	Fri 4/6/18	Mon 5/7/18	22 days	149
151	Final RD	Tue 5/8/18	Fri 7/20/18	52 days	
152	Prepare RTCs for EPA/MDE comments on RD	Tue 5/8/18	Mon 5/21/18	10 days	150
153	Army review RTCs	Tue 5/22/18	Tue 6/12/18	15 days	152
154	EPA/MDE Review	Wed 6/13/18	Fri 7/13/18	22 days	153
155	EPA/MDE Approval of RD	Mon 7/16/18	Mon 7/16/18	1 day	154,133
156	Distribute Final RD	Fri 7/20/18	Fri 7/20/18	1 day	155FS+3 days
157	Remedial Action	Tue 7/17/18	Fri 2/22/19	154 days	
158	Mobilize (HASP Addendum, ROE, Access Coordination, Procurement, Contracting)	Tue 7/17/18	Thu 9/13/18	42 days	155
159	Implement Remedial Action	Fri 9/14/18	Wed 1/23/19	90 days	158
160	Demobilization, IDW management	Thu 1/24/19	Fri 2/22/19	22 days	159
161	Construction Completion Report	Thu 1/24/19	Wed 7/10/19	118 days	
162	Draft	Thu 1/24/19	Fri 2/22/19	22 days	159
163	Army Review	Mon 2/25/19	Tue 3/26/19	22 days	162
164	Draft Final	Wed 3/27/19	Tue 4/9/19	10 days	163
165	MDE Review	Wed 4/10/19	Thu 5/9/19	22 days	164
166	EPA Review	Wed 4/10/19	Fri 6/7/19	42 days	164
167	Final including Army review	Mon 6/10/19	Wed 7/10/19	22 days	166
168	Approved CCR	Wed 7/10/19	Wed 7/10/19	0 days	167
169	Interim Remedial Action Report	Thu 1/24/19	Wed 7/10/19	118 days	

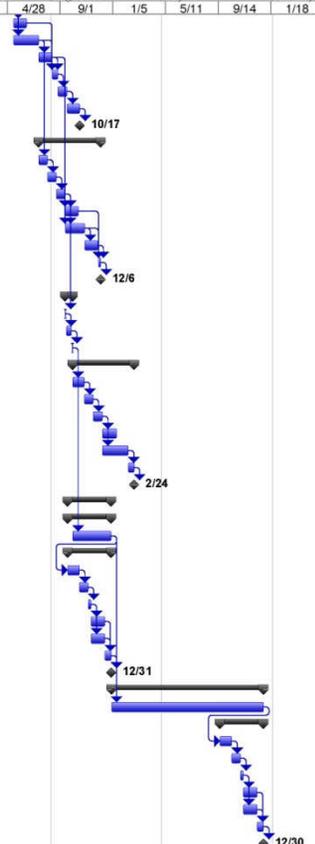
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FGGM OU-5 Schedule

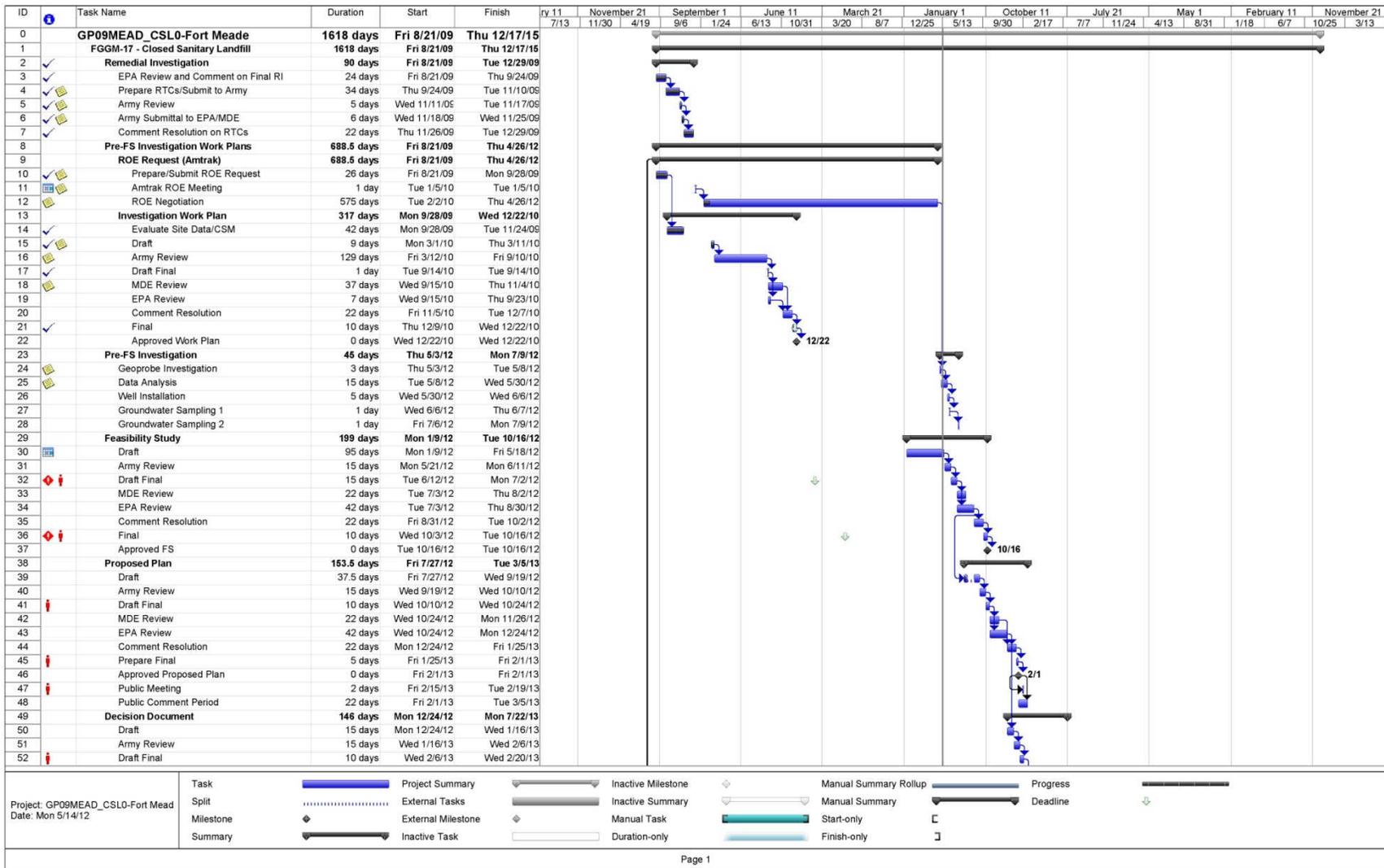
ID	Task Name	Start	Finish	Duration	Predecessors
170	Draft	Thu 1/24/19	Fri 2/22/19	22 days	159
171	Army Review	Mon 2/25/19	Tue 3/26/19	22 days	170
172	Draft Final	Wed 3/27/19	Tue 4/9/19	10 days	171
173	MDE Review	Wed 4/10/19	Thu 5/9/19	22 days	172
174	EPA Review	Wed 4/10/19	Fri 6/7/19	42 days	172
175	Final including Army review	Mon 6/10/19	Wed 7/10/19	22 days	174
176	Approved IRAR (RIP for OU-5)	Wed 7/10/19	Wed 7/10/19	0 days	175

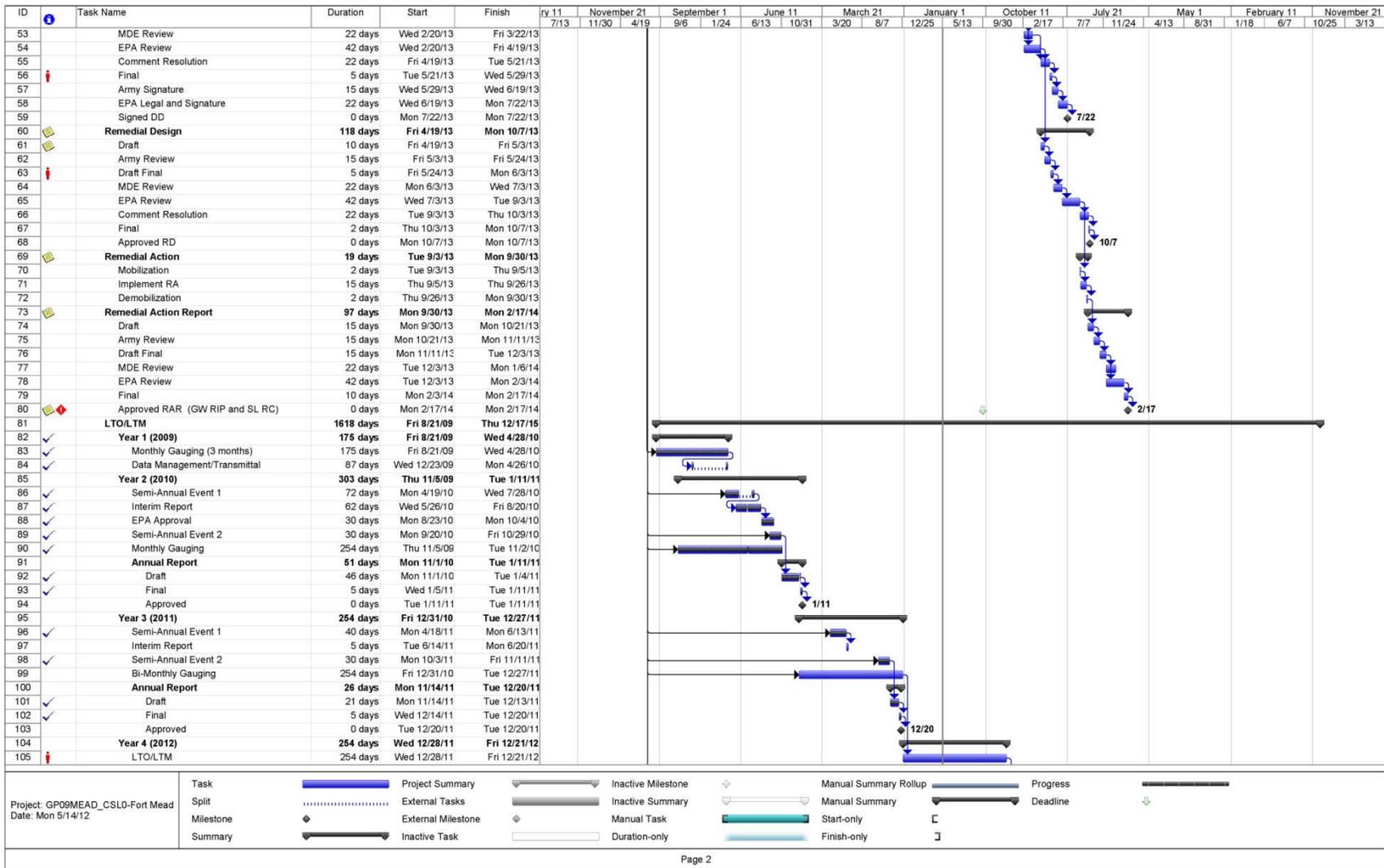


ID	Task Name	Duration	Start	Finish	April 11		January 1		September 21		June 11		March 1		November 21		August 11		May 1		January 21	
					11/2	3/8	7/12	11/15	3/21	7/26	11/28	4/3	8/7	12/11	4/15	8/19	12/23	4/28	9/1	1/5	5/11	9/14	1/18
52	MDE Review	22 days	Mon 5/13/13	Wed 6/12/13																		
53	EPA Review	42 days	Mon 5/13/13	Thu 7/11/13																		
54	Comment Resolution	22 days	Fri 7/12/13	Mon 8/12/13																		
55	Final	10 days	Tue 8/13/13	Mon 8/26/13																		
56	Army Signature	15 days	Tue 8/27/13	Tue 9/17/13																		
57	EPA Legal and Signature	22 days	Wed 9/18/13	Thu 10/17/13																		
58	Signed DD	0 days	Thu 10/17/13	Thu 10/17/13																		
59	Remedial Design	104 days	Fri 7/12/13	Fri 12/6/13																		
60	Draft	15 days	Fri 7/12/13	Thu 8/1/13																		
61	Army Review	15 days	Fri 8/2/13	Thu 8/22/13																		
62	Draft Final	14 days	Fri 8/23/13	Thu 9/12/13																		
63	MDE Review	22 days	Fri 9/13/13	Mon 10/14/13																		
64	EPA Review	33 days	Fri 9/13/13	Tue 10/29/13																		
65	Comment Resolution	22 days	Wed 10/30/13	Fri 11/29/13																		
66	Final	5 days	Mon 12/2/13	Fri 12/6/13																		
67	Approved RD	0 days	Fri 12/6/13	Fri 12/6/13																		
68	Remedial Action	12 days	Fri 9/13/13	Mon 9/30/13																		
69	Mobilization	1 day	Fri 9/13/13	Fri 9/13/13																		
70	Implement RA	10 days	Mon 9/16/13	Fri 9/27/13																		
71	Demobilization	1 day	Mon 9/30/13	Mon 9/30/13																		
72	Remedial Action Report	102 days	Tue 10/1/13	Mon 2/24/14																		
73	Draft	20 days	Tue 10/1/13	Mon 10/28/13																		
74	Army Review	15 days	Tue 10/29/13	Mon 11/18/13																		
75	Draft Final	15 days	Tue 11/19/13	Tue 12/10/13																		
76	MDE Review	22 days	Wed 12/11/13	Mon 1/13/14																		
77	EPA Review	42 days	Wed 12/11/13	Mon 2/10/14																		
78	Final	10 days	Tue 2/11/14	Mon 2/24/14																		
79	Approved RAR (GW RIP and SL RC)	0 days	Mon 2/24/14	Mon 2/24/14																		
80	LTO/LTM	72 days	Thu 9/19/13	Tue 12/31/13																		
81	Year 1	72 days	Thu 9/19/13	Tue 12/31/13																		
82	LTO/LTM	64 days	Tue 10/1/13	Tue 12/31/13																		
83	Annual Report	72 days	Thu 9/19/13	Tue 12/31/13																		
84	Draft	20 days	Thu 9/19/13	Wed 10/16/13																		
85	Army Review	15 days	Thu 10/17/13	Wed 11/6/13																		
86	Draft Final	5 days	Thu 11/7/13	Wed 11/13/13																		
87	MDE Review	22 days	Thu 11/14/13	Mon 12/16/13																		
88	EPA Review	22 days	Thu 11/14/13	Mon 12/16/13																		
89	Final	10 days	Tue 12/17/13	Tue 12/31/13																		
90	Approved	0 days	Tue 12/31/13	Tue 12/31/13																		
91	Year 2	254 days	Thu 12/1/14	Tue 12/30/14																		
92	LTO/LTM	254 days	Thu 1/2/14	Tue 12/30/14																		
93	Annual Report	72 days	Thu 9/18/14	Tue 12/30/14																		
94	Draft	20 days	Thu 9/18/14	Wed 10/15/14																		
95	Army Review	15 days	Thu 10/16/14	Wed 11/5/14																		
96	Draft Final	5 days	Thu 11/6/14	Wed 11/12/14																		
97	MDE Review	22 days	Thu 11/13/14	Mon 12/15/14																		
98	EPA Review	22 days	Thu 11/13/14	Mon 12/15/14																		
99	Final	10 days	Tue 12/16/14	Tue 12/30/14																		
100	Approved	0 days	Tue 12/30/14	Tue 12/30/14																		



Project: Ft. Meade and Phoenix Mil. Re Date: Tue 5/15/12	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Progress		Deadline
	Split		External Tasks		Inactive Summary		Manual Summary		Start-only		Finish-only
	Milestone		External Milestone		Manual Task		Start-only		Finish-only		
	Summary		Inactive Task		Duration-only		Finish-only				

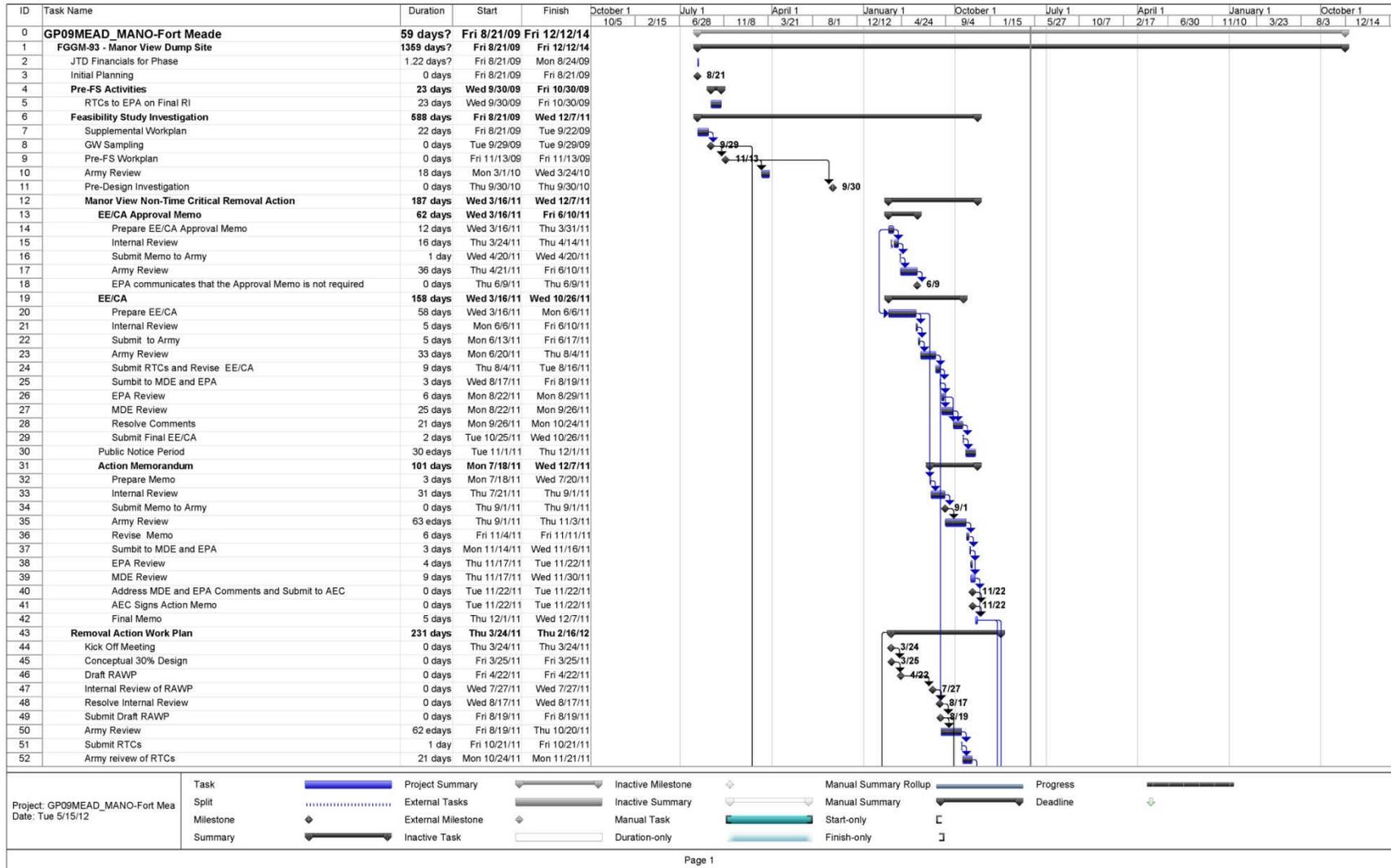


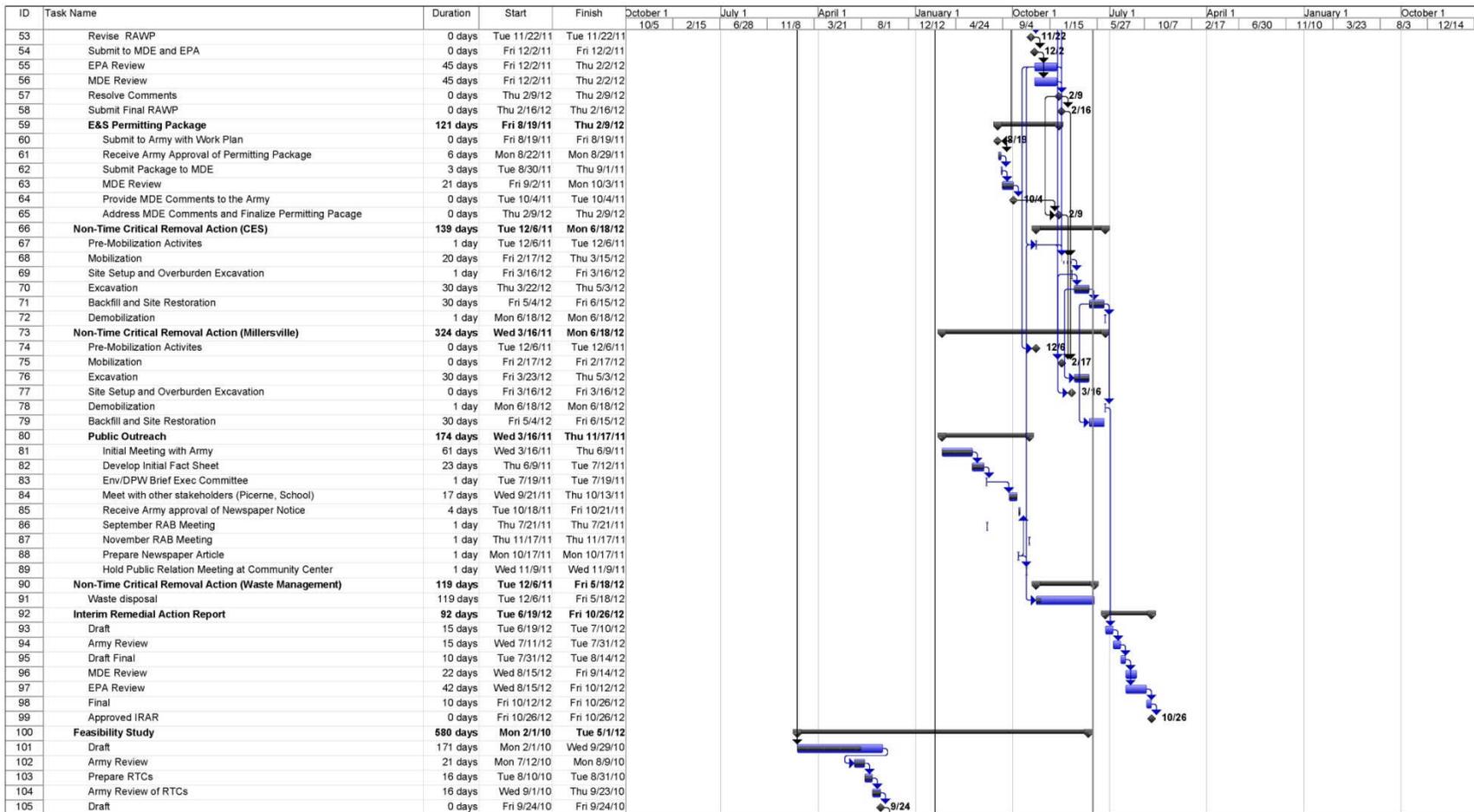


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FGGM OU-5 Schedule

ID	Task Name	Start	Finish	Duration	Predecessors
170	Draft	Thu 1/24/19	Fri 2/22/19	22 days	159
171	Army Review	Mon 2/25/19	Tue 3/26/19	22 days	170
172	Draft Final	Wed 3/27/19	Tue 4/9/19	10 days	171
173	MDE Review	Wed 4/10/19	Thu 5/9/19	22 days	172
174	EPA Review	Wed 4/10/19	Fri 6/7/19	42 days	172
175	Final including Army review	Mon 6/10/19	Wed 7/10/19	22 days	174
176	Approved IRAR (RIP for OU-5)	Wed 7/10/19	Wed 7/10/19	0 days	175

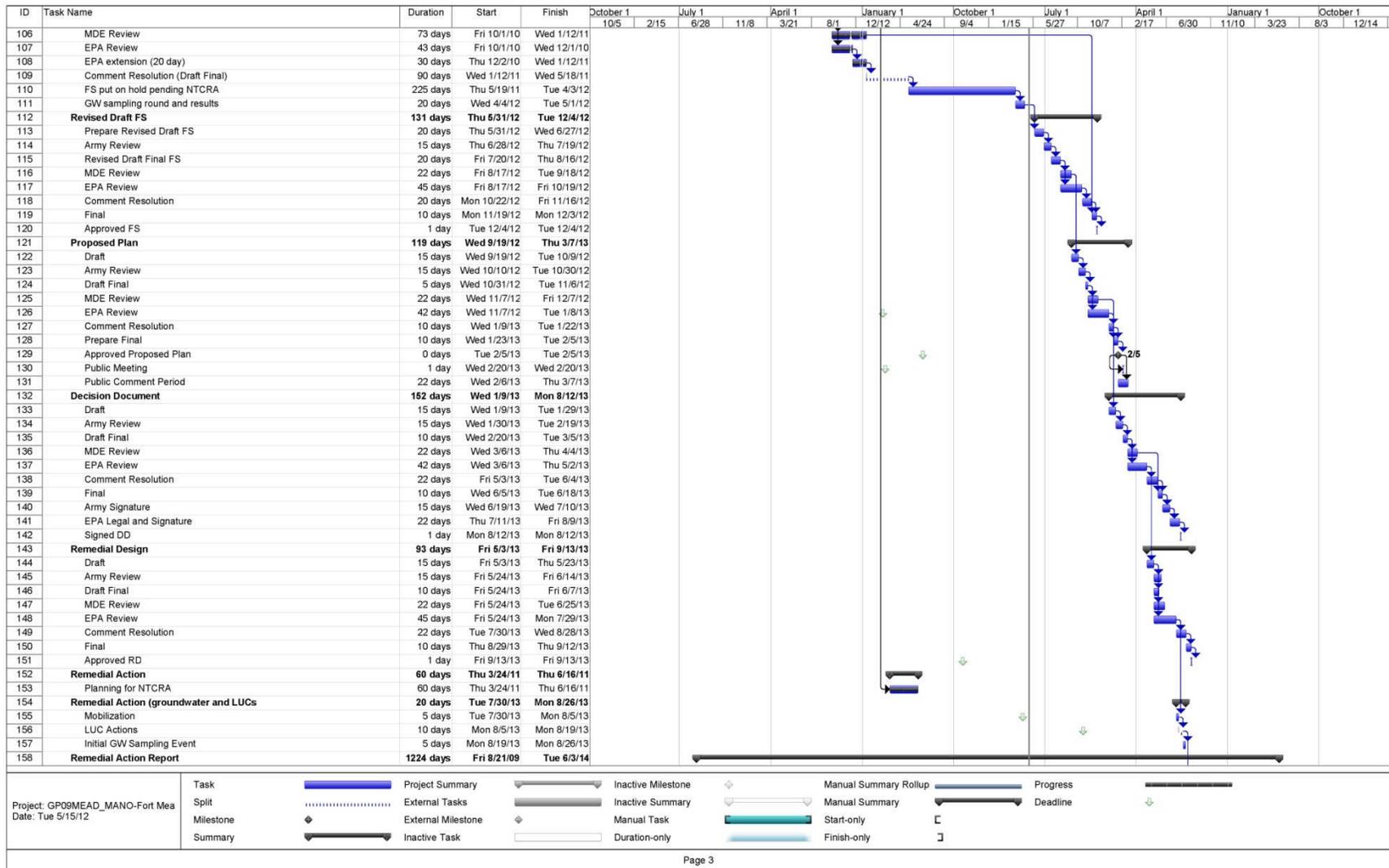


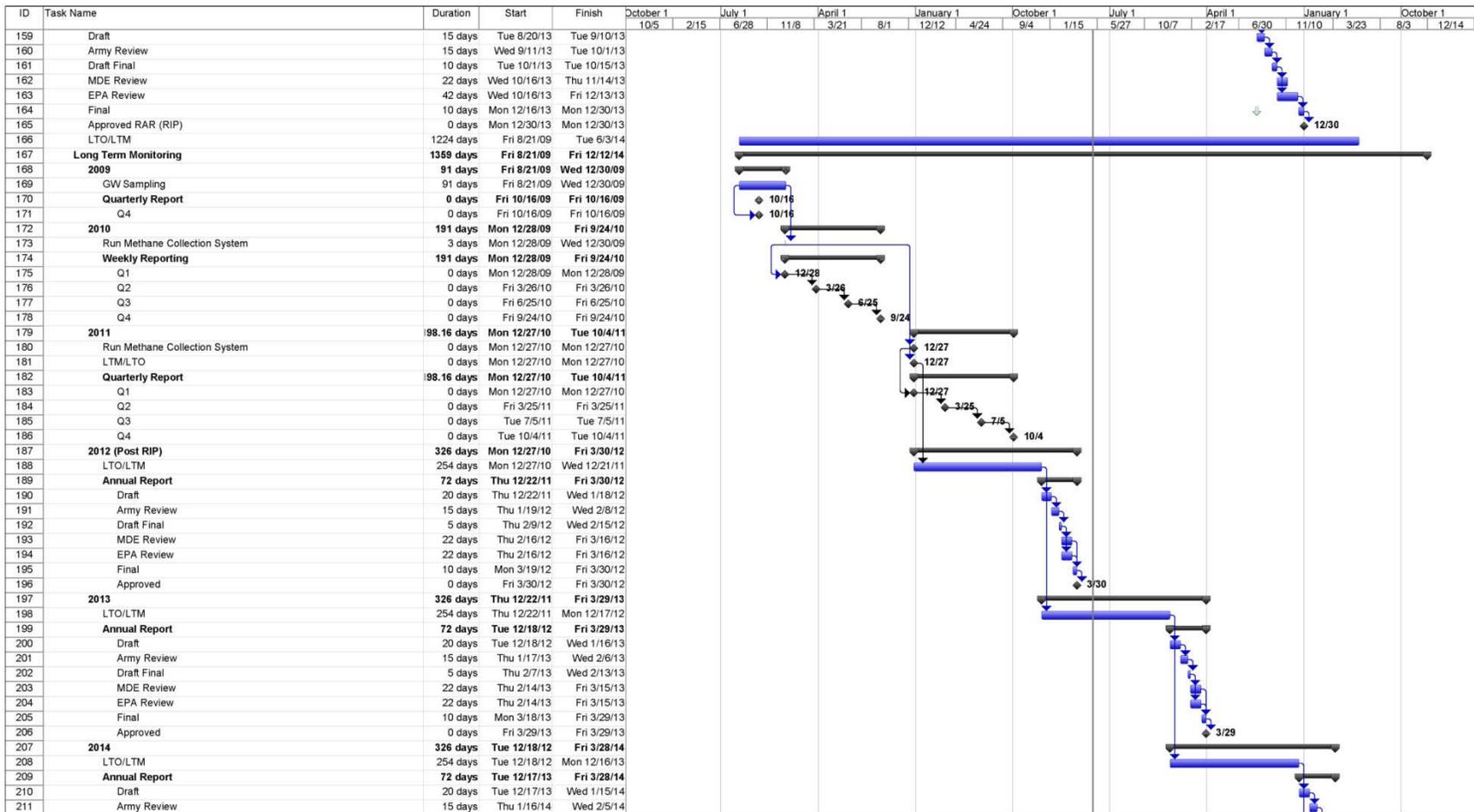


Project: GPO9MEAD_MANO-Fort Mea
Date: Tue 5/15/12

Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Progress	
Split		External Tasks		Inactive Summary		Manual Summary		Deadline	
Milestone		External Milestone		Manual Task		Start-only			
Summary		Inactive Task		Duration-only		Finish-only			

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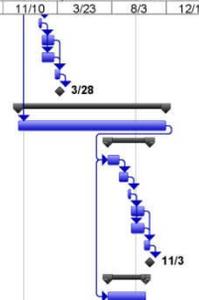


Project: GPO9MEAD_MANO-Fort Mea
Date: Tue 5/15/12

Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Progress		Deadline
Split		External Tasks		Inactive Summary		Manual Summary				
Milestone		External Milestone		Manual Task		Start-only				
Summary		Inactive Task		Duration-only		Finish-only				

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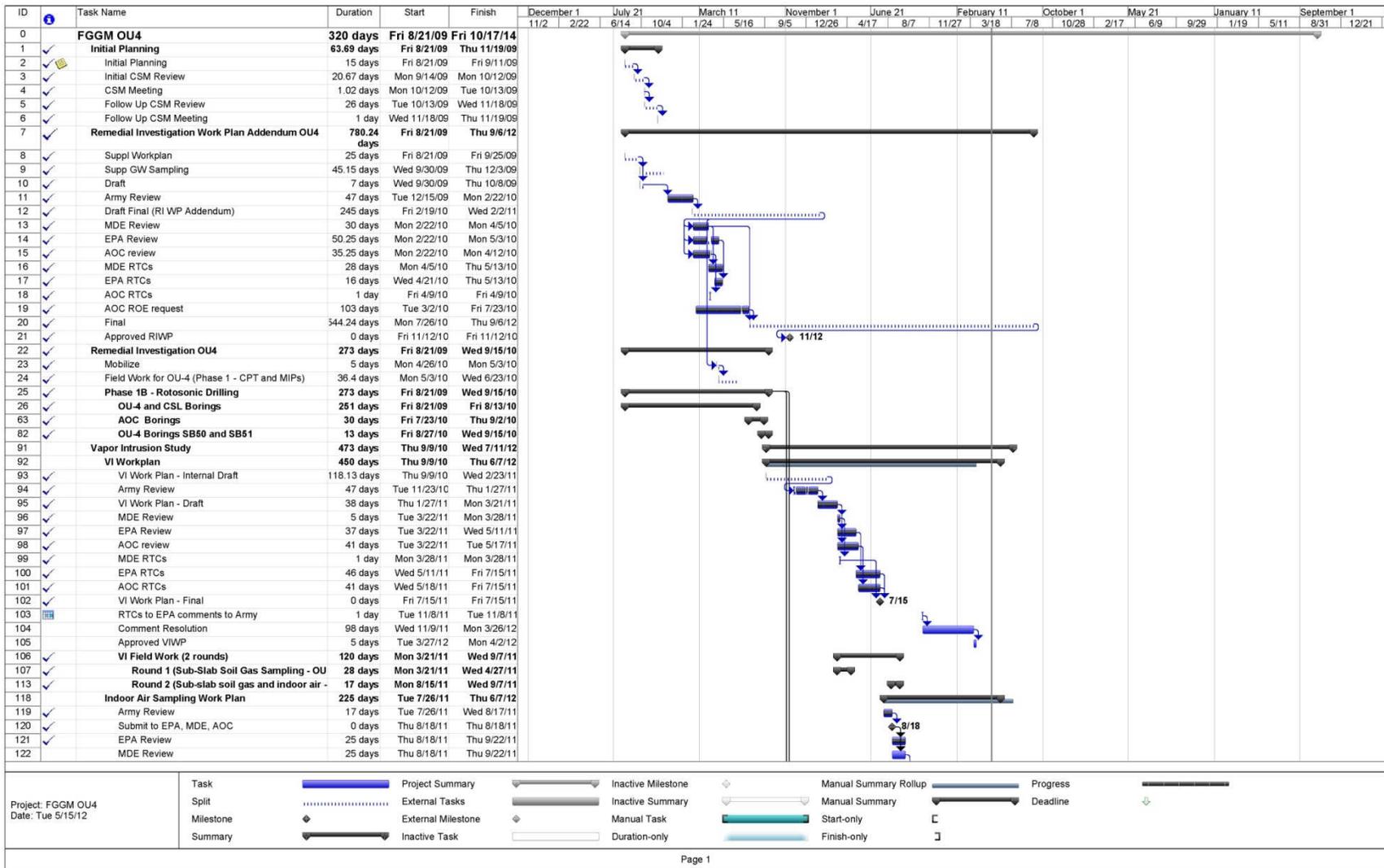
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212	Draft Final	5 days	Thu 2/6/14	Wed 2/12/14	10/5	2/15	6/28	11/8	3/21	8/1	12/12	4/24	9/4
213	MDE Review	22 days	Thu 2/13/14	Fri 3/14/14									
214	EPA Review	22 days	Thu 2/13/14	Fri 3/14/14									
215	Final	10 days	Mon 3/17/14	Fri 3/28/14									
216	Approved	0 days	Fri 3/28/14	Fri 3/28/14									
217	2015	253 days	Tue 12/17/13	Fri 12/12/14									
218	LTO/LTM	253 days	Tue 12/17/13	Fri 12/12/14									
219	Annual Report	72 days	Thu 7/24/14	Mon 11/3/14									
220	Draft	20 days	Thu 7/24/14	Wed 8/20/14									
221	Army Review	15 days	Thu 8/21/14	Thu 9/11/14									
222	Draft Final	5 days	Fri 9/12/14	Thu 9/18/14									
223	MDE Review	22 days	Fri 9/19/14	Mon 10/20/14									
224	EPA Review	22 days	Fri 9/19/14	Mon 10/20/14									
225	Final	10 days	Tue 10/21/14	Mon 11/3/14									
226	Approved	0 days	Mon 11/3/14	Mon 11/3/14									
227	Methane Decommissioning	66 days	Thu 7/24/14	Fri 10/24/14									
228	Annual Report	66 days	Thu 7/24/14	Fri 10/24/14									

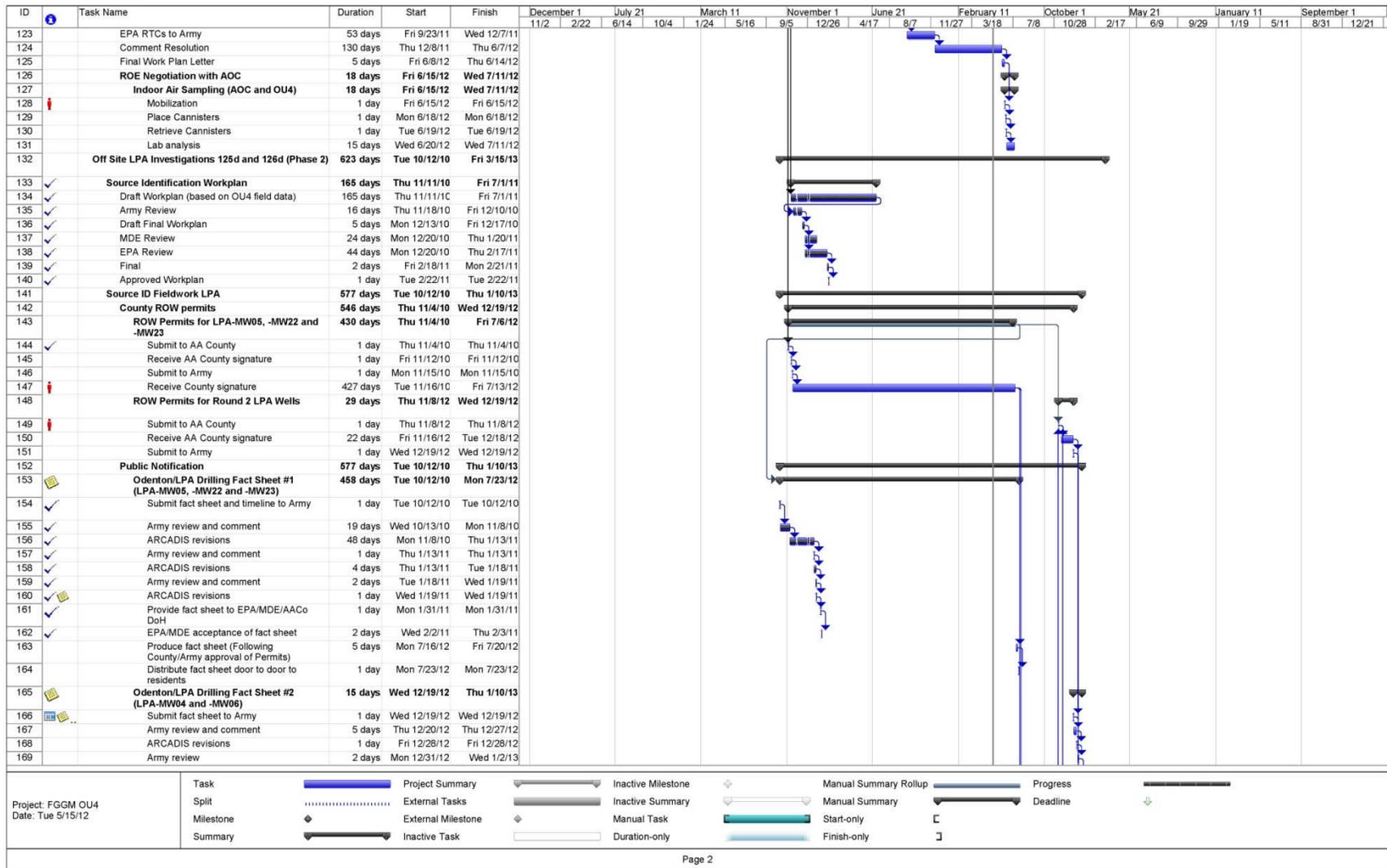


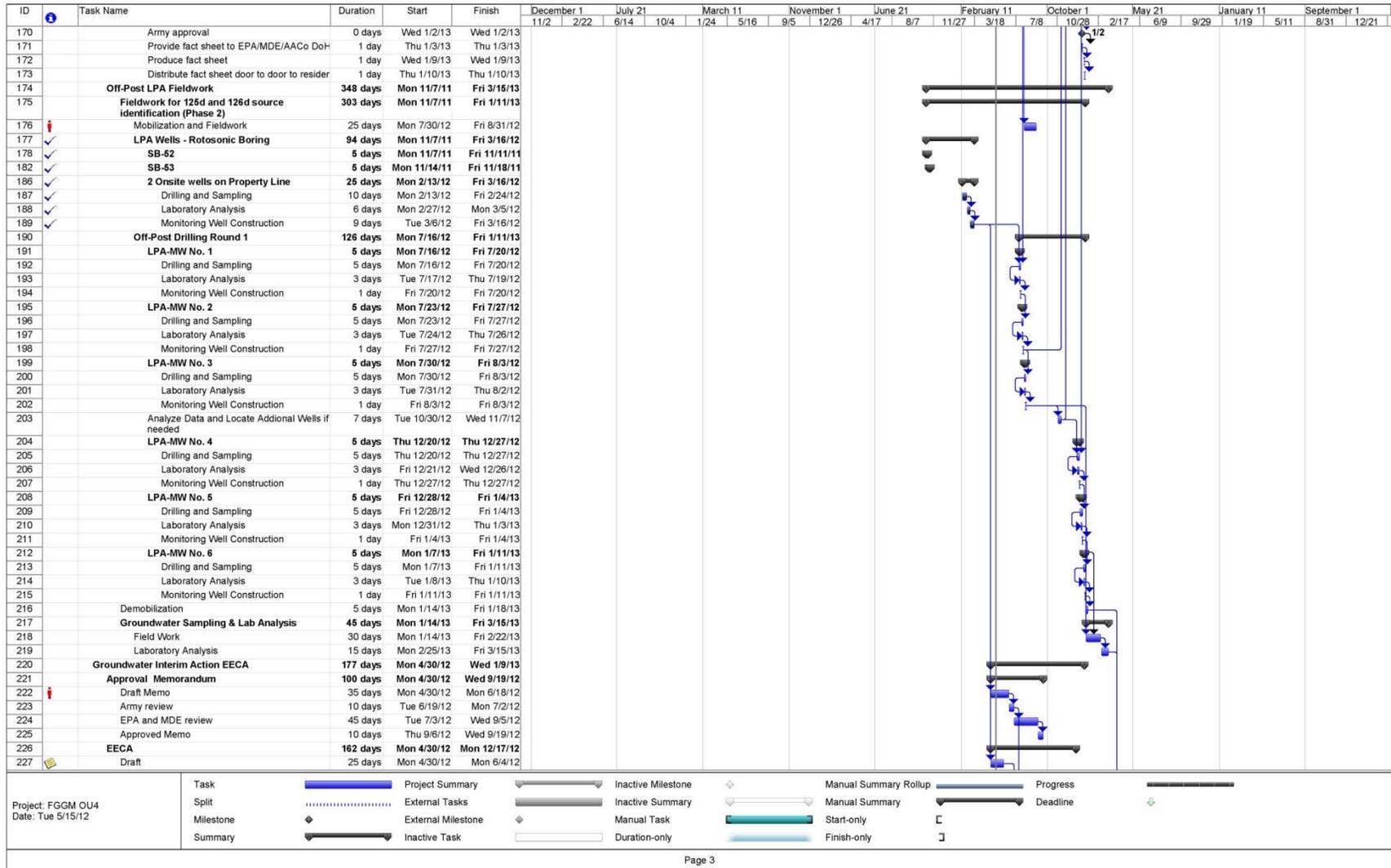
Project: GPO9MEAD_MANO-Fort Mea
Date: Tue 5/15/12

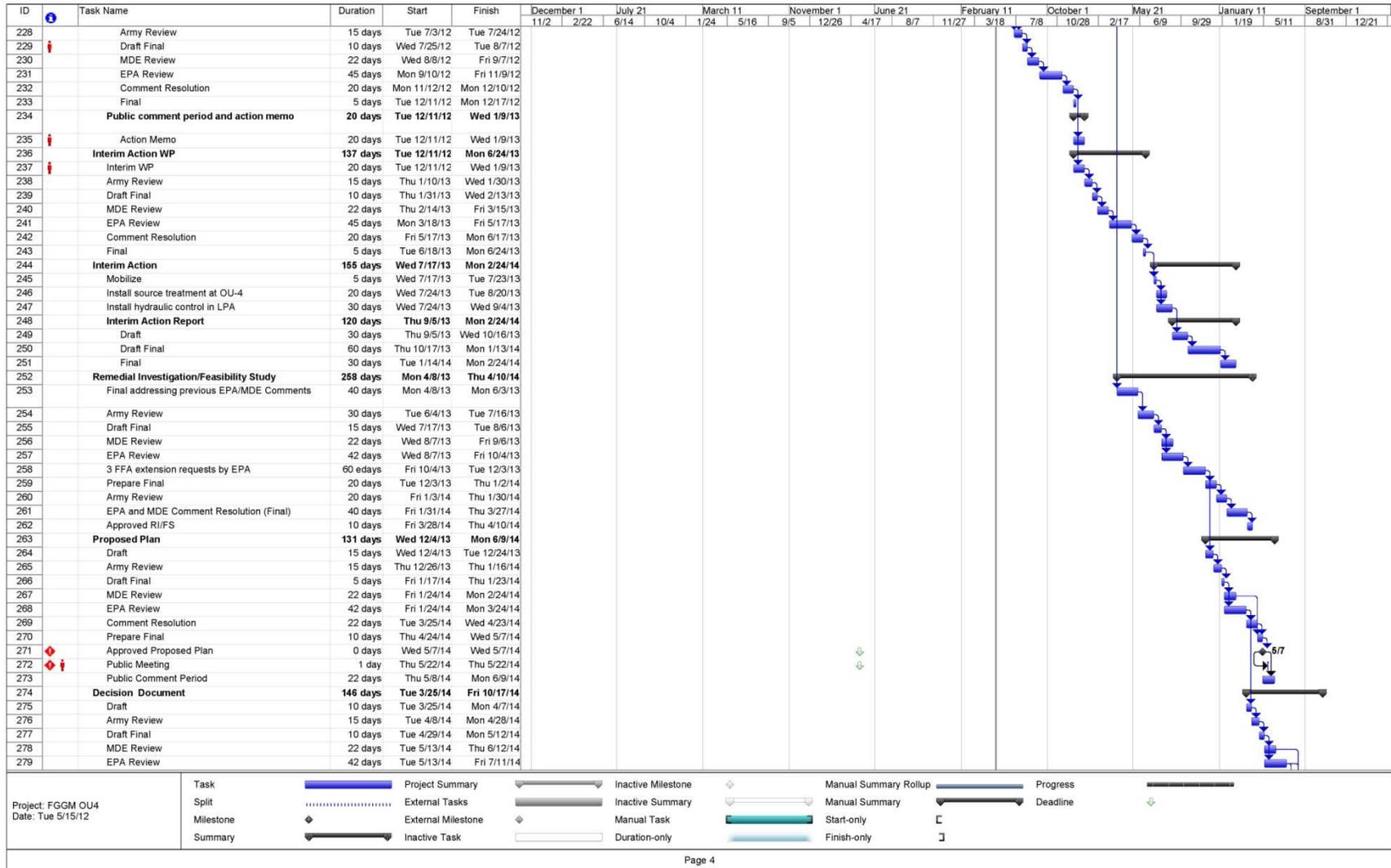
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Split		External Tasks		Inactive Summary		Manual Summary		Deadline	
Milestone		External Milestone		Manual Task		Start-only			
Summary		Inactive Task		Duration-only		Finish-only			

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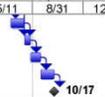








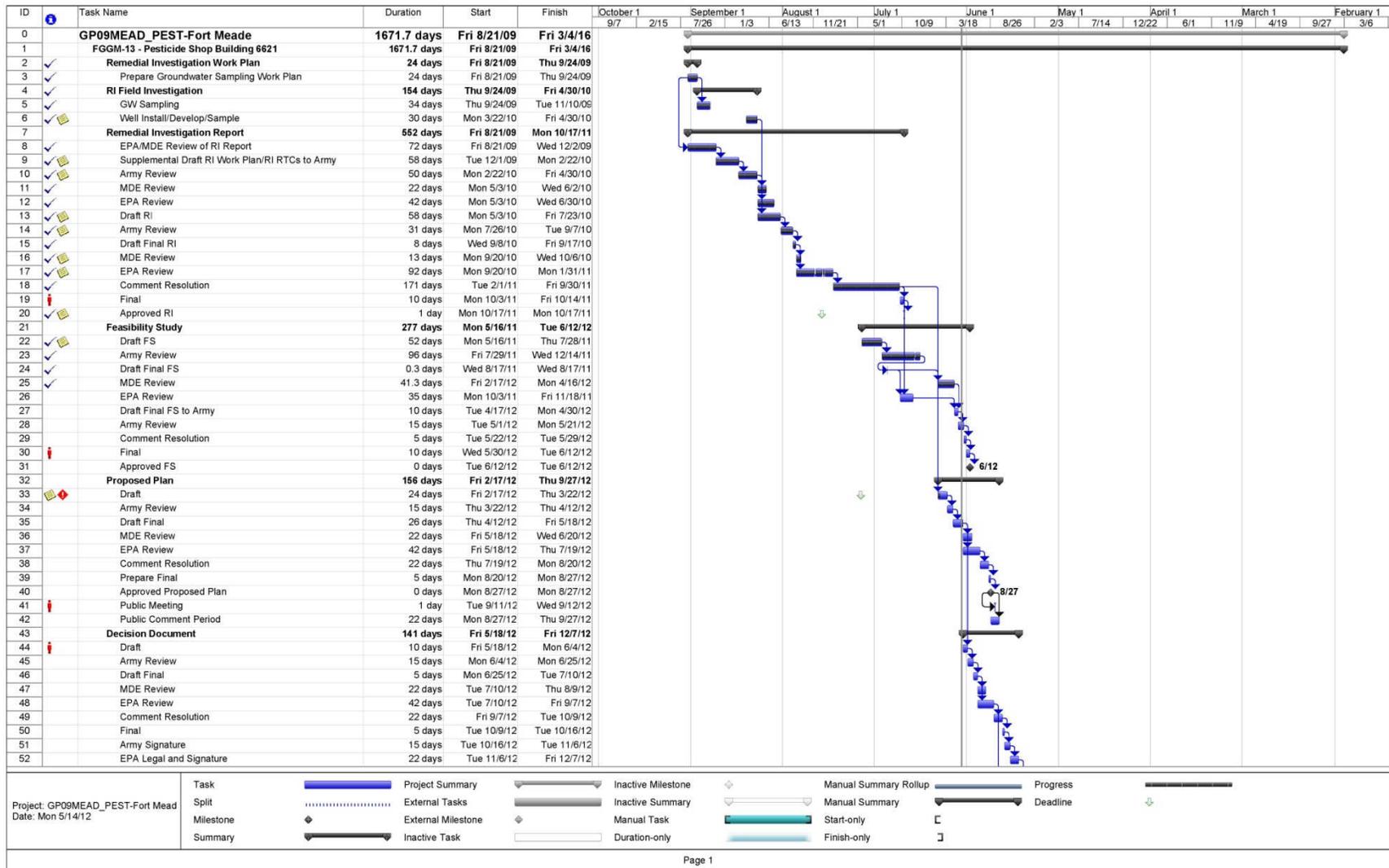
ID	Task Name	Duration	Start	Finish	December 1		July 21		March 11		November 1		June 21		February 11		October 1		May 21		January 11		September 1	
					11/2	2/22	6/14	10/4	1/24	5/16	9/5	12/26	4/17	8/7	11/27	3/18	7/8	10/28	2/17	6/9	9/29	1/19	5/11	8/31	12/21
280	Comment Resolution	22 days	Mon 7/14/14	Tue 8/12/14																				
281	Final	10 days	Wed 8/13/14	Tue 8/26/14										↓										
282	Army Signature	15 days	Wed 8/27/14	Wed 9/17/14																				
283	EPA Legal and Signature	22 days	Thu 9/18/14	Fri 10/17/14																				
284	Signed DD	0 days	Fri 10/17/14	Fri 10/17/14										↓										

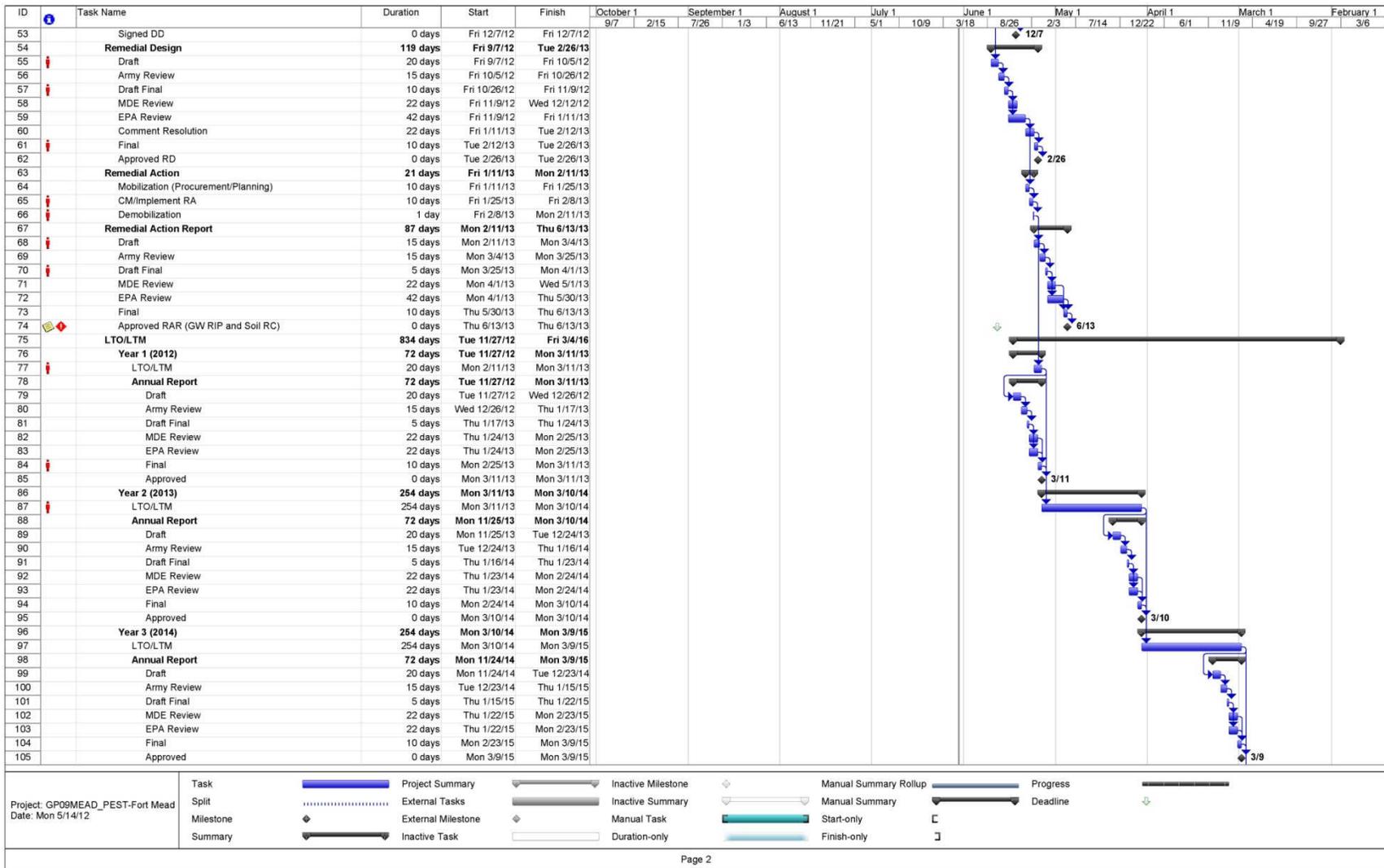


Project: FGGM OU4
Date: Tue 5/15/12

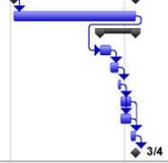
Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Progress	
Split		External Tasks		Inactive Summary		Manual Summary		Deadline	
Milestone		External Milestone		Manual Task		Start-only			
Summary		Inactive Task		Duration-only		Finish-only			

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ID	Task Name	Duration	Start	Finish	October 1		September 1		August 1		July 1		June 1		May 1		April 1		March 1		February 1	
					9/7	2/15	7/26	1/3	6/13	11/21	5/1	10/9	3/18	8/26	2/3	7/14	12/22	6/1	11/9	4/19	9/27	3/6
106	Year 4 (2015)	254 days	Mon 3/9/15	Fri 3/4/16																		
107	LTO/LTM	254 days	Mon 3/9/15	Fri 3/4/16																		
108	Annual Report	72 days	Fri 11/20/15	Fri 3/4/16																		
109	Draft	20 days	Fri 11/20/15	Mon 12/21/15																		
110	Army Review	15 days	Mon 12/21/15	Wed 1/13/16																		
111	Draft Final	5 days	Wed 1/13/16	Wed 1/20/16																		
112	MDE Review	22 days	Wed 1/20/16	Fri 2/19/16																		
113	EPA Review	22 days	Wed 1/20/16	Fri 2/19/16																		
114	Final	10 days	Fri 2/19/16	Fri 3/4/16																		
115	Approved	0 days	Fri 3/4/16	Fri 3/4/16																		



Project: GP09MEAD_PEST-Fort Mead
Date: Mon 5/14/12

Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Progress	
Split		External Tasks		Inactive Summary		Manual Summary		Deadline	
Milestone		External Milestone		Manual Task		Start-only			
Summary		Inactive Task		Duration-only		Finish-only			

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Table 3-2 Project Schedules for Open Sites at Fort Meade

ID	Task Name	Duration	Start	2013				2014				201						
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
1	Federal Facilities Agreement Effective Date	0 days	10/6/2009															
2	Site Management Plan	1317 days	3/6/2009															
3	2009 Site Management Plan	243 days	3/6/2009															
10	2010 Site Management Plan	129 days	6/15/2010															
20	2011 Site Management Plan	120 days	7/11/2011															
28	2012 Site Management Plan	120 days	6/15/2012															
29	Submit Draft 2012 SMP	0 days	6/15/2012															
30	Regulatory Review	30 days	6/15/2012															
31	Address Comments	30 days	7/15/2012															
32	Submit Draft Final 2012 SMP	0 days	8/13/2012															
33	Regulatory Review	30 days	8/14/2012															
34	Address Comments	30 days	9/13/2012															
35	Submit Final 2012 SMP	0 days	10/12/2012															
36	FGGM 07 (OU-5) DRMO Drum Site (see attached)	2071 days	5/1/2008															
132	FGGM 13 (OU-10) Former Pesticide Shop Bldg. 6621 (see attached)	2331 days	8/21/2009															
200	FGGM 17 (OU-12) Closed Sanitary Landfill (see attached)	2324 days	8/21/2009															
281	FGGM 47, 49, 86, 88, 89, 90, 91, 92 (OU-4) & 125d and 126d (see attached)	2323 days	8/21/2009															
282	OU-4 Remedial Investigation	391 days	8/21/2009															
302	Source Identification 125d and 126d	278 days	7/12/2010															
323	Remedial Investigation/Feasibility Study	170 days	11/24/2010															
331	Proposed Plan	178 days	3/2/2011															
342	Decision Document	213 days	6/29/2011															
353	RIP OU-4/LPA (Option)	1505 days	11/17/2011															
376	FGGM 74 (OU-29) Architect of the Capitol (see attached)	2318 days	8/26/2009															
453	FGGM 83 (OU-1) Former Trap And Skeet Range (see attached)	1749 days	6/1/2008															
504	FGGM 87 (OU-3) Former Nike Control Site (see attached)	2713 days	9/1/2005															
543	FGGM 93 (OU-36) Manor View Dump (see attached)	2316 days	8/21/2009															
614	PA/SI Areas of Interest (see Table 3-3 for a list of all AOIs in this project)	1266 days	5/13/2010															
615	Golf Course Areas of Interest (AOIs)	646 days	5/13/2010															
616	Draft Final PA/SI Consensus Letter (CL) and Work Plan (WP) Task Work	30 days	5/13/2010															
617	Draft Final PA/SI CLs and WPs	0 days	6/11/2010															
618	Regulatory Review	60 days	6/12/2010															
619	EPA Extension Request	0 days	8/10/2010															
620	Extended Regulatory Review	20 days	8/11/2010															
621	2nd EPA Extension Request/Extended Regulatory Review	20 days	8/31/2010															
622	3rd EPA Extension Request/Extended Regulatory Review	20 days	9/20/2010															
623	Address Comments	60 days	10/10/2010															
624	Final Golf Course CLs and WPs	1 day	12/9/2010															

Project: SMP Schedule
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Task Summary
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Table 3-2 Project Schedules for Open Sites at Fort Meade

ID	Task Name	Duration	Start	2013				2014				201					
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1		
625	Regulatory Approval (Final PA/SI Golf Course CLs WPs)	29 days	12/10/2010														
626	Fieldwork	19 days	4/25/2011														
627	Laboratory Analysis/Data Validation	68 days	5/14/2011														
628	Draft PA/SI Report	71 days	7/21/2011														
629	Regulatory Review	78 days	9/30/2011														
630	Draft Final PA/SI Report	17 days	12/17/2011														
631	Regulatory Review EPA/MDE	38 days	1/3/2012														
632	Final PA/SI Report	7 days	2/10/2012														
633	Regulatory Approval	1 day	2/17/2012														
634	North, Southeast, Southwest AOIs	1258 days	5/21/2010														
635	Consensus Letters	422 days	5/21/2010														
636	Draft PA/SI CLs	0 days	5/21/2010														
637	Regulatory Review	60 days	5/22/2010														
638	EPA Extension Request	1 day	7/15/2010														
639	Extended Regulatory Review	21 days	7/21/2010														
640	2nd EPA Extension Request/Extended Regulatory Review	111 days	8/11/2010														
641	Address Comments	56 days	11/30/2010														
642	Draft Final PA/SI CLs	0 days	1/24/2011														
643	Regulatory Review	57 days	1/25/2011														
644	Final PA/SI CLs	86 days	3/23/2011														
645	Regulatory Approval (Final PA/SI CLs)	30 days	6/17/2011														
646	Work Plans	533 days	7/23/2010														
647	Draft Work Plan Task Work	20 days	7/23/2010														
648	Draft PA/SI WPs	0 days	8/11/2010														
649	Regulatory Review	226 days	8/13/2010														
650	Address Comments	33 days	3/27/2011														
651	Draft Final PA/SI WPs	0 days	4/28/2011														
652	Regulatory Review	46 days	4/29/2011														
653	Final PA/SI WPs	65 days	6/14/2011														
654	Regulatory Review	121 days	8/18/2011														
655	Revised Final PA/SI WPs	6 days	12/17/2011														
656	Regulatory Approval (Final PA/SI WPs)	15 days	12/23/2011														
657	Reports	256 days	2/16/2013														
658	Draft PA/SI Reports	0 days	2/16/2013														
659	Regulatory Review	60 days	2/17/2013														
660	Address Comments	60 days	4/18/2013														
661	Draft Final PA/SI Reports	0 days	6/16/2013														
662	Regulatory Review	60 days	6/17/2013														

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Task  Summary 
 Submittal to Regulatory Agency 

Table 3-2 Project Schedules for Open Sites at Fort Meade

ID	Task Name	Duration	Start	2013				2014				201										
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1											
663	Address Comments	60 days	8/16/2013																			
664	Final PA/SI Reports	0 days	10/14/2013																			
665	Regulatory Approval (Final PA/SI Reports)	15 days	10/15/2013																			
666	BRAC and Other AOIs	441 days	11/30/2010																			
667	Consensus Letters and Work Plans	441 days	11/30/2010																			
668	Draft PA/SI CLs and WPs	1 day	11/30/2010																			
669	Regulatory Review	142 days	12/2/2010																			
670	Address Comments	63 days	4/23/2011																			
671	Draft Final PA/SI CLs and WPs	0 days	6/24/2011																			
672	Regulatory Review	100 days	6/25/2011																			
673	Final PA/SI CLs and WPs	54 days	10/3/2011																			
674	Regulatory Approval (Final PA/SI CLs and WPs)	80 days	11/26/2011																			
675	PA/SI Reports	256 days	2/16/2013																			
676	Draft PA/SI Reports	0 days	2/16/2013																			
677	Regulatory Review	60 days	2/17/2013																			
678	Address Comments	60 days	4/18/2013																			
679	Draft Final PA/SI Reports	0 days	6/16/2013																			
680	Regulatory Review	60 days	6/17/2013																			
681	Address Comments	60 days	8/16/2013																			
682	Final PA/SI Reports	0 days	10/14/2013																			
683	Regulatory Approval (Final PA/SI Reports)	15 days	10/15/2013																			
684	FGGM-001-R-01 (OU-38) Clean Fill Dump (BRAC MMRP)	62 days	6/15/2010																			
685	Remedial Action (Operation)	62 days	6/15/2010																			
686	FGGM-002-R-01 (OU-39) High Explosive Impact and Disposal (BRAC MMRP)	7160 days	2/20/2009																			
687	Remedial Action (Operation)	7160 days	2/20/2009																			
688	Proposed Plan	582 days	5/2/2011																			
689	PP Task Work	388 days	5/2/2011																			
690	Draft PP	0 days	5/23/2012																			
691	Regulatory Review	60 days	5/24/2012																			
692	Address Comments	52 days	7/23/2012																			
693	Draft Final PP	0 days	9/12/2012																			
694	Public Comment Period	30 days	9/13/2012																			
695	Public Meeting	1 day	9/27/2012																			
696	Regulatory Approval (Final PP)	67 days	9/28/2012																			
697	ROD	194 days	1/28/2013																			
698	Draft ROD	1 day	1/28/2013																			
699	Regulatory Review	60 days	1/29/2013																			
700	Address Comments	52 days	3/30/2013																			

Project: SMP Schedule
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Table 3-2 Project Schedules for Open Sites at Fort Meade

ID	Task Name	Duration	Start	2013				2014				201							
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1								
701	Draft Final ROD	0 days	5/20/2013				5/20												
702	Regulatory Review	30 days	5/21/2013																
703	Address Comments	51 days	6/20/2013																
704	Final ROD	0 days	8/9/2013				8/9												
705	LUCRD	195 days	10/6/2013																
706	Draft LUCRD	1 day	10/6/2013																
707	Regulatory Review	60 days	10/7/2013																
708	Address Comments	52 days	12/6/2013																
709	Draft Final LUCRD	0 days	1/26/2014																
710	Regulatory Review	30 days	1/27/2014																
711	Address Comments	52 days	2/26/2014																
712	Final LUCRD	0 days	4/18/2014																
713	RD/RA	3522 days	4/19/2014																
714	Remedial Action (Operation)	3522 days	4/19/2014																
715	FGGM-003-R-01 (OU-40) Mortar Range (MMRP) (see attached)	2255 days	10/28/2009																
785	FGGM-007-R-01 (OU-44) Inactive Landfill 2 (IAL2) (MMRP)	6430 days	11/9/2011																
786	Remedial Action (Operation)	6430 days	11/9/2011																
787	FGGM 10 (OU-8) (part of Tipton Groundwater OU, BRAC)	1506 days	3/6/2009																
788	2012 Combined BRAC GW OUs LTM Report	204 days	9/28/2012																
789	LTM Draft Report	0 days	9/28/2012				9/28												
790	Regulatory Review	60 days	9/28/2012																
791	Address Comments	63 days	11/27/2012																
792	LTM Draft Final Report	0 days	1/28/2013																
793	Regulatory Review	30 days	1/29/2013																
794	Address Comments	51 days	2/28/2013																
795	LTM Final Report	0 days	4/19/2013																
796	Remedial Action (Operation)	1420 days	3/6/2009																
797	FGGM 20 (OU-15) Ordnance Demo Area (BRAC)	3047 days	9/29/2009																
798	Withdraw December 2005 Decision Document	31 days	9/29/2009																
799	Proposed Plan/ROD	307 days	3/30/2011																
800	Draft Final PP	0 days	3/30/2011																
801	Regulatory Review/Address Comments	60 days	3/30/2011																
802	Public Comment Period	30 days	4/1/2011																
803	Public Meeting	0 days	4/28/2011																
804	Prepare Final PP	19 days	5/1/2011																
805	Regulatory Approval (Final PP)	2 days	5/20/2011																
806	Draft ROD	0 days	7/6/2011																
807	Regulatory Review/Address Comments	120 days	7/5/2011																

Project: SMP Schedule
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Table 3-2 Project Schedules for Open Sites at Fort Meade

ID	Task Name	Duration	Start	2013				2014				201			
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1		Q2	Q3	Q4
808	Draft Final ROD	0 days	11/1/2011												
809	Regulatory Approval	90 days	11/2/2011												
810	Final ROD	0 days	1/30/2012												
811	2012 Combined BRAC GW OUs LTM Report	204 days	9/28/2012												
812	LTM Draft Report	0 days	9/28/2012												
813	Regulatory Review	60 days	9/28/2012												
814	Address Comments	63 days	11/27/2012												
815	LTM Draft Final Report	0 days	1/28/2013												
816	Regulatory Review	30 days	1/29/2013												
817	Address Comments	51 days	2/28/2013												
818	LTM Final Report	0 days	4/19/2013												
819	ODA LUCRD Report	193 days	7/6/2012												
820	ODA LUCRD Draft Report	0 days	7/6/2012												
821	Regulatory Review	60 days	7/6/2012												
822	Address Comments	49 days	9/4/2012												
823	ODA LUCRD Draft Final Report	0 days	10/22/2012												
824	Regulatory Review	30 days	10/23/2012												
825	Address Comments	54 days	11/22/2012												
826	ODA LUCRD Final Report	0 days	1/14/2013												
827	Remedial Action (Operation)	2193 days	1/31/2012												
828	FGGM 31 (OU-17) (part of Tipton Groundwater OU, BRAC)	1506 days	3/6/2009												
829	2012 Combined BRAC GW OUs LTM Report	204 days	9/28/2012												
830	LTM Draft Report	0 days	9/28/2012												
831	Regulatory Review	60 days	9/28/2012												
832	Address Comments	63 days	11/27/2012												
833	LTM Draft Final Report	0 days	1/28/2013												
834	Regulatory Review	30 days	1/29/2013												
835	Address Comments	51 days	2/28/2013												
836	LTM Final Report	0 days	4/19/2013												
837	Remedial Action (Operation)	1420 days	3/6/2009												
838	FGGM 81 (OU-33) Clean Fill Dump (BRAC)	2041 days	3/6/2009												
839	2012 Combined BRAC GW OUs LTM Report	204 days	9/28/2012												
840	LTM Draft Report	0 days	9/28/2012												
841	Regulatory Review	60 days	9/28/2012												
842	Address Comments	63 days	11/27/2012												
843	LTM Draft Final Report	0 days	1/28/2013												
844	Regulatory Review	30 days	1/29/2013												
845	Address Comments	51 days	2/28/2013												

Project: SMP Schedule
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Task: Summary

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Table 3-2 Project Schedules for Open Sites at Fort Meade

ID	Task Name	Duration	Start	2013				2014				201		
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1			
846	LTM Final Report	0 days	4/19/2013				4/19							
847	2011 Clean Fill Dump ESD Report	195 days	9/11/2012											
848	2011 Clean Fill Dump ESD Draft Report	0 days	9/11/2012				9/11							
849	Regulatory Review	60 days	9/11/2012											
850	Address Comments	53 days	11/10/2012											
851	2011 Clean Fill Dump ESD Draft Final Report	0 days	1/1/2013				1/1							
852	Regulatory Review	30 days	1/2/2013											
853	Address Comments	52 days	2/1/2013											
854	2011 Clean Fill Dump ESD Final Report	0 days	3/24/2013											
855	Remedial Action (Operation)	2041 days	3/6/2009											
856	FGGM 85 (OU-35) UXO Tipton Army Airfield (BRAC MMRP)	4600 days	6/9/2010											
857	Explanation of Significant Difference (ESD)	610 days	1/10/2011											
858	Draft ESD	0 days	1/10/2011											
859	Regulatory Review/Address Comments	550 days	1/10/2011											
860	Draft Final ESD	0 days	7/12/2012				7/12							
861	Regulatory Approval (Final ESD)	60 days	7/13/2012											
862	TAP LUCRD Report	190 days	9/4/2012											
863	TAP LUCRD Draft Report	0 days	9/4/2012				9/4							
864	Regulatory Review	60 days	9/4/2012											
865	Address Comments	47 days	11/3/2012											
866	TAP LUCRD Draft Final Report	0 days	12/19/2012											
867	Regulatory Review	30 days	12/20/2012											
868	Address Comments	53 days	1/19/2013											
869	TAP LUCRD Final Report	0 days	3/12/2013											
870	2012 Inactive Landfills Maint. Report	195 days	11/9/2012											
871	2012 Inactive Landfills Maint. Draft Report	0 days	11/9/2012				11/9							
872	Regulatory Review	60 days	11/9/2012											
873	Address Comments	53 days	1/8/2013											
874	2012 Inactive Landfills Maint. Draft Final Report	0 days	3/1/2013											
875	Regulatory Review	30 days	3/2/2013											
876	Address Comments	52 days	4/1/2013											
877	2012 Inactive Landfills Maint. Final Report	0 days	5/22/2013											
878	Remedial Action (Operation)	4600 days	6/9/2010											
879	FGGM 94 (OU-37) Trap And Skeet Range 17 (BRAC)	6206 days	8/18/2008											
880	RFI Work Plan	460 days	8/18/2008											
886	RI/FS Report	711 days	11/2/2009											
887	RI/FS Fieldwork/Analytical	137 days	11/2/2009											
888	RI/FS Task Work	99 days	3/19/2010											

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Table 3-3: PA/SI AOI Summary by Geographic Area

North

Building 940 – MP and Associated WR and OWS (SWMUs 12, 13, 146)
 Building 1007 – Army Reserves MP
 Building 1251 – Administrative and Vehicle and Equipment Storage (SWMUs 19-21)
 Building 2120c – Vehicle Storage and Maintenance (SWMUs 25-28)
 Former Building 2121 – Vehicle Maintenance (SWMUs 29, 30)
 Former Building 2122 – Vehicle Maintenance (SWMU 31)
 Building 2123 – Tent/Jeep Storage (SWMU 32)
 Building 2124 – Vehicle and Tool Storage, Vehicle Maintenance (SWMUs 33-34)
 Former Building 2128– Vehicle Maintenance (SWMU 35, 36)
 Building 3000 SWMU 98
 Former Incinerator Building - 1943
 FGGM 75 (OU-30) – USTs Prior to 1984
 Incinerator - Reece Road
 MP-13/WR-9
 MP-14
 MP-17
 MP-18/WR-12
 MP-19/WR-13
 Possible Dump Site A – 1957
 Possible Dump Site B – 1957
 Possible Dump Site C – 1957
 Possible Dump Site D – 1957
 Possible Dump Site E – 1957 (Former Burning Waste Site)
 Possible Dump Site F – 1957
 Possible Dump Sites – 1970
 Small Pit – 1952

Southeast

Building 294 (SWMU 10)
 Building 546 (SWMU 11)
 Building 2227 (SWMU 43, 44, and 147) and Building 2224
 Buildings 2454, 2455, 2456, and 2457 (non-SWMUs 1, 2, 3, 4)

Building 2482 – Used Oil Recycling Tank at Hospital Boiler Plant
 Building 2484 (SWMU 73)
 Building 2501
 Building 2630 – Dispatch, Storage, and Parking Area for Emergency Medical Units WR
 Building 2724 – Outdoor Recreation Equipment Rentals, WR (SWMUs 80-86)
 Building 2728 – Out of Service WRs and Recreational Equipment Storage (SWMUs 87-92, 148)
 Building 2801 (non-SWMU 5)
 Former Building 2831 (SWMUs 96 & 97)
 Building 4272 (non-SWMU 9)
 Building 4411 (SWMU 99)
 Chisholm Ave. and 6th Street
 FGGM 37 (OU-21) - SWMU 71 Building 2480 Kimbrough Army Hospital
 MP-2
 MP-6
 MP-7/WR-6
 MP-8
 MP-9
 Former MP-10
 MP-11/WR-7
 MP-12/WR-8
 Possible Vehicle Service Area A – 1943
 Possible Vehicle Service Area B – 1943
 Stained Soils Along 3rd Street
 SWMUs 143 and 144
 Waste Storage/Disposal Area – 1938

Southwest

Building 4552 (non-SWMU 10)
 Building 4553 (non-SWMU 11)
 Building 4554 (SWMU 100)
 Building 4587 – Equipment Storage and Vehicle Repair Shop and WR
 Building 4680 – Gas Station and Detailing Shop
 Building 6527 (SWMU 104) - FGGM 14 (OU-11)
 Building 6530 (SWMUs 105-108)
 Building 8472 (SWMU 109)

Building 8480 – Military Vehicle and Equipment Storage
Building 8485 – Military Vehicle and Equipment Storage
Building 8486 (SWMU 117 & 118)
Building 8486 – MP
Building 8487 – MP
Building 8549 (SWMUs 121 and 122) – Practice Hall and Instrument Storage for Musicians
SWMUs 123 and 124 – WR and OWS near Building 8549
Building 8550 – MP
Building 8551 – Maintenance Facility with WR and OWS
Building 9581 (SWMU 138) - FGGM 19 (OU-14)
Buildings 9802 and 9803 (non-SWMUs 12 and 13)
Buried Drum Site – Taylor Avenue
FGGM 03 (OU-6) - SWMU 129 and 130 Building 8688 Water treatment plant
FGGM 19 (OU-14) - Advanced Wastewater Treatment Plant (Building 9581)
FGGM 70 (OU-25) - SWMU 150 Building 6513 Indoor Range
FGGM 71 (OU-26) - SWMU 151 and 152 Former Building 6522 Ex indoor range
Fill – 1988
IAL4
MP-1/WR-4
MP-3/WR-2
MP-4
MP-5
Oil Tanks
SWMUs 141 and 142 – Privately Owned Vehicles WR
WR-3

Golf Course

Site M Parcel 1
Site M Parcel 2
Site M Parcel 3
Site M Parcel 4
Site M Parcel 5
Site M Parcel 6
Site M Parcel 7
Site M Parcel 8

Site M Parcel 9
Building 6800
Building 6865

South of 32

Possible Dump Site G – 1957
FGGM 11 (OU-9) - Building 73 Gas Training
FGGM 18 (OU-13) - Ammunition Supply Point No. 2
FGGM 21 (OU-16) - Medical Waste Site
FGGM 32 (OU-18)
FGGM 36 (OU-20) - SWMU 105, 106, 107, 108, Non-SWMU 10 and 11 Buildings 4552, 4553, and 6530 Photographic Laboratory Building, oil/water separator and wash racks
FGGM 72 (OU-27) - Buildings 80 and 85 POL Storage Tanks
FGGM 73 (OU-28)
FGGM 80 (OU-32)
FGGM 82 (OU-34)

AOIs w/ Pot Rad Issues

Building 2490 (SWMU 74)
Building 2802 (SWMU 93)
Building 2804 (SWMU 94)
Building 2805 (SWMU 95)
Buildings 2810, 2811, 2832 (non-SWMUs 6, 7, 8)

AOIs moved from PA/SI to OU-4

Building 2213 (SWMU 38) – Sheet Metal and Sign Fabrication Shop
Building 2253 (FGGM 92)
Building 2266
Building 2276 (SWMUs 63 and 64)
Building 2288 (SWMU 69)
Building 2287 – NSA MP Storing Equipment and Chemicals (Demolished 2000)
Debris and Stain – 1975
FGGM 33 (OU-19)
FGGM 45 (OU-22)
FGGM 51 (OU-24)
Pre-WWII Laundry
WR-5

FGGM 08 (OU-7) - moved to CSL

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Appendix A
EPA's Acceptance of 2009 SMP, 2010 Amended SMP, and
2011 Amended SMP



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

May 4, 2010

Paul V. Fluck, P.G., REP
Installation Restoration Manager
Dept. of Army DPW - Environmental Division
239 Chisholm Avenue
Suite 5115
Fort George G. Meade, MD. 20755-7068

Subject: 2009 SMP

Mr. Fluck:

Thank you for the opportunity to review the subject document. EPA has no additional comments on the 2009 SMP and it is EPA's opinion that the document is ready for inclusion in the Administrative Record.

If you have any questions, please contact me at 215-814-3378.

Sincerely,

A handwritten signature in black ink, appearing to read "John Burchette".

John Burchette
Remedial Project Manager

cc: Mr. Kurt Scarbro



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

September 15th, 2010

Paul V. Fluck, P.G., REP
Installation Restoration Manager
Dept. of Army DPW - Environmental Division
239 Chisholm Avenue
Suite 5115
Fort George G. Meade, MD. 20755-7068

Subject: 2010 Site Management Plan

Mr. Fluck:

Thank you for the opportunity to review the 2010 SMP for Fort George G. Meade.

EPA has reviewed the subject document and has no additional comments. It is EPA's opinion that the document is ready for inclusion in the administrative record.

If you have any questions, please contact me at 215-814-3378.

Sincerely,

A handwritten signature in black ink, appearing to read "John Burchette".

John Burchette
Remedial Project Manager

cc: Mr. Kurt Scarbro



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

August 29, 2011

Paul V. Fluck, P.G., REP
Installation Restoration Manager
Dept. of Army DPW - Environmental Division
239 Chisholm Avenue
Suite 5115
Fort George G. Meade, MD. 20755-7068

Subject: 2011 Draft Final Site Management Plan

Mr. Fluck:

Thank you for the opportunity to review the subject document. EPA has no additional comments on the Draft Final SMP. Please submit the Final version of the document when you get the opportunity.

Sincerely,

A handwritten signature in black ink, appearing to read "John Burchette".

John Burchette
Remedial Project Manager

cc: Mr. Kurt Scarbro

Appendix B
Response to Comments on Draft 2012 SMP

Response to Comments submitted by Architect of the Capitol on 11 July 2012

No.	Section Title - Page Number	Comment	By	Date	Response
1	General Comment	Just want to ensure that investigations at OU- 4 Southeast Groundwater include more than just groundwater since many of the sites being investigated with OU-4 also include soil contamination. The title is misleading.	AOC	7/11/12	The ARCADIS PBA contract is for "OU4 Groundwater" but the RI will cover soil assessment as well, so we'd agree the "title" to this site and other references to OU4 within the SMP should refer to OU4 rather than OU4 Groundwater. "Southeast Groundwater" was removed from the title of section 2.1.12 on page 2-11 and "SE Area Groundwater" was removed from the description of OU-4 on pages 2-13, 2-14, 2-16 through 2-27, 2-29 through 2-31, and 2-46.
2	2.1.12.3 FGGM 47 (OU-4), pg 2-12	Please include SWMU's 63 and 64 with FGGM 96: Furniture repair shop (Building 2276) description.	AOC	7/11/12	The suggested change has been made.
3	2.1.12.3 FGGM 47 (OU-4), pg 2-12	Should FGGM 96: Building 2287 (SWMU 68) be included with OU-4 since EPA has approved a NFA?	AOC	7/11/12	Yes, Building 2287 (SWMU 68) is still part of OU-4, even though it does not require further action.
4	2.1.12.3 FGGM 47 (OU-4), pg 2-15	Can you include results from previous studies?	AOC	7/11/12	The SMP is meant to be a quick overview. For detailed information, the reviewer can go to any of the source documents. The level of detail is the same as prior SMPs which have previously been approved by EPA. No change will be made.
5	2.1.12.3 FGGM 47 (OU-4), pg 2-15	Please include in the description that this site is being included in the investigation with OU-4	AOC	7/11/12	The suggested change has been made.

No.	Section Title - Page Number	Comment	By	Date	Response
6	2.1.12.4 FGGM 49 (OU-23/OU-4), pg 2-16	Versar reports for Buildings 2286 and 2246 are inconsistent with what is mentioned in 2.1.12.10 FGGM 91 (pg 2-22) and 2.1.12.11 FGGM 92 (pg 2-23), respectively. For Building 2286 the text references Versar 2000c and 2000b on pg 2-16 and Versar 2005b on pg 2-18. For Building 2246 the text references Versar 2000c and 2000b on pg 2-16 and Versar 1999ah and 2000g on pg 2-23.	AOC	7/11/12	These are different reports. Versar 2000c and 2000b are the initial delineation reports. Versar 2005b is the Investigation Data Report, Versar 1999ah is the SWMU sampling visit report, and Versar 2000g is a report the Army does not have but was referenced in EM Federal2004. No changes will be made.
7	2.1.12.9 FGGM 90 (OU-4), pg 2-21	Can you include results from previous studies?	AOC	7/11/12	Please see response to question 4 above.
8	2.1.12.10 FGGM 91 (OU-4), pg 2-22	Current use of Building 2220 is inconsistent on pages 2-22 and 2-14 (electronic maintenance and calibration shop vs. administration).	AOC	7/11/12	Building 2220 has 2 separate tenants. 1) DTPMS – Directorate of Plans, Training, Mobilization, and Security 2) TSC – Theatre Signal Command They split the building in half and the DTPMS side is used mainly for storage, the old Fort Meade television studio is located in this building and is still there. The TSC side is used for storage as well however there is a lot of electronic equipment that is kept there and it appears they are working with it regularly; it is some type of calibration facility for equipment. Because of OPSEC (operational security) requirements, the current use will be identified as “administrative/storage.”

No.	Section Title - Page Number	Comment	By	Date	Response
9	2.1.15, FGGM 74, pg 2-34	The writeup for the "current status" and "cleanup/exit strategy" sections focus exclusively on lead in soil as a constituent of concern. Based on recent comments provided by AOC and agreed to by the Army, inorganics (e.g., antimony, copper) also are potential constituents of concern in groundwater. This problem may be alleviated by the addition of discussion in the "previous studies" section of results of the 2006 RI, 2009 technical memorandum, and other more recent investigations (e.g., lead delineation study) at the site.	AOC	7/10/12	<p>The SMP will be updated as follows:</p> <p>Current Status: An RI is being finalized following completion of a supplemental lead delineation soil investigation, updated human health risk assessment (HHRA), and evaluation of background concentrations of inorganics in groundwater. The results of the HHRA and the background study for inorganics in groundwater, both still under regulatory review, indicate no active remedial action is necessary at AOC.</p> <p>Cleanup/Exit Strategy: An FS and/or PP will be developed as necessary following approval of a Final RI for AOC.</p>
10	2.1.19.9 FGGM 95 (OU-45), pg 2-46	Although this site is included in investigations under OU-4, it is not included in the OU-4 description on pg 2-12.	AOC	7/11/12	The OU-4 boundary is based on surface features, not the GW plume. The Pre-WWII Laundry is just outside the OU-4 boundary. Reference to OU-4 in the summary of the Pre-WWII Laundry will be removed. The figure in the OU-4 Summary on page 2-12 will be changed to the OU-4 surface boundary instead of the GW plume.
11	2.1.20.25 FGGM 96 (OU-46), pg 2-74	Please include SWMU's 43 and 44 in the title.	AOC	7/11/12	The SMP is attempting to make the titles shorter. Information about the SWMU number is available within the text for this site. No change will be made.
12	Table 3-1, Summary of Submittals due Through June 15, 2013, Page 3-2	A submittal for a Draft Supplemental Army RI Data Report (submittal date of 5/29/2012) is identified under the entry for FGGM 7 (OU-5), DRMO Drum Site. Did this submittal occur? If so, AOC would like to receive a copy of this submittal.	AOC	7/11/12	Yes, that DRMO OU5 report was submitted as indicated. The Army can provide AOC a copy.

Comments submitted by EPA on 6 August 2012



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029**

August 6, 2012

Paul V. Fluck, P.G., REP
Installation Restoration Manager
Dept. of Army DPW - Environmental Division
239 Chisholm Avenue
Suite 5115
Fort George G. Meade, MD. 20755-7068

Subject: 2012 Site Management Plan

Mr. Fluck:

Thank you for the opportunity to review the subject document. EPA has no additional comments on the Site Management Plan. It is EPA's opinion that the document is ready for inclusion in the Administrative Record for the Site.

Sincerely,

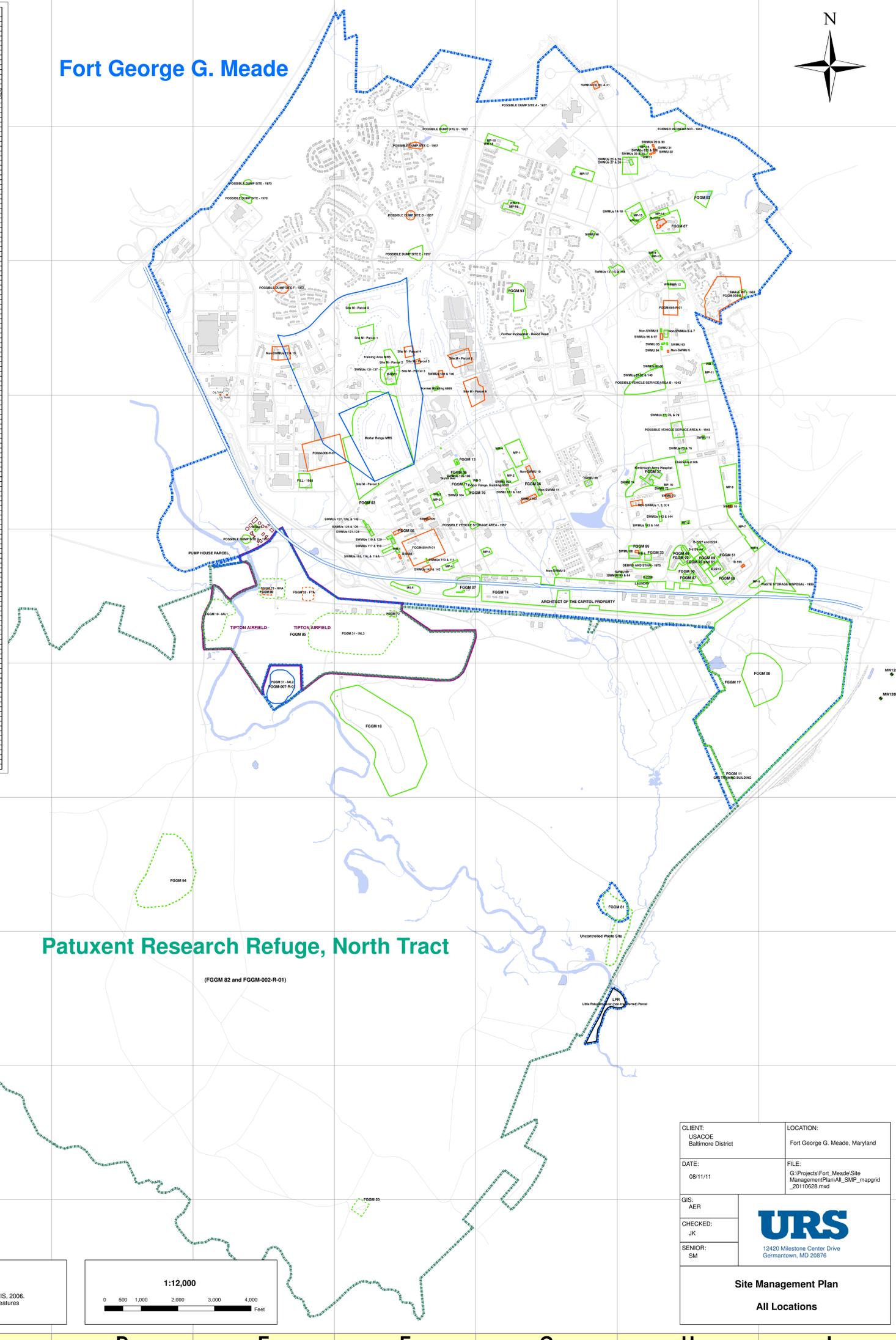
A handwritten signature in black ink, appearing to read "John Burchette", is positioned below the word "Sincerely,".

John Burchette
Remedial Project Manager

cc: Dr. Elisabeth Green

Identifier Used on Plans	ADDB#	Operable	Additional Identifier of Site
FGGM01	FGGM01	01-06	Water treatment plant, Building 6688 (SWMU 125 and 126)
FGGM02	FGGM02	01-06	Range order point, Building 1881 (SWMU 112, 113, and 114)
FGGM03	FGGM03	01-06	SRM2000 dump site
FGGM04	FGGM04	01-06	Chemical storage building, Building 1881
FGGM05	FGGM05	01-06	Vehicle maintenance building, Building 1881
FGGM06	FGGM06	01-06	Vehicle maintenance building, Building 1881
FGGM07	FGGM07	01-06	Vehicle maintenance building, Building 1881
FGGM08	FGGM08	01-06	Vehicle maintenance building, Building 1881
FGGM09	FGGM09	01-06	Vehicle maintenance building, Building 1881
FGGM10	FGGM10	01-06	Vehicle maintenance building, Building 1881
FGGM11	FGGM11	01-06	Vehicle maintenance building, Building 1881
FGGM12	FGGM12	01-06	Vehicle maintenance building, Building 1881
FGGM13	FGGM13	01-06	Vehicle maintenance building, Building 1881
FGGM14	FGGM14	01-06	Vehicle maintenance building, Building 1881
FGGM15	FGGM15	01-06	Vehicle maintenance building, Building 1881
FGGM16	FGGM16	01-06	Vehicle maintenance building, Building 1881
FGGM17	FGGM17	01-06	Vehicle maintenance building, Building 1881
FGGM18	FGGM18	01-06	Vehicle maintenance building, Building 1881
FGGM19	FGGM19	01-06	Vehicle maintenance building, Building 1881
FGGM20	FGGM20	01-06	Vehicle maintenance building, Building 1881
FGGM21	FGGM21	01-06	Vehicle maintenance building, Building 1881
FGGM22	FGGM22	01-06	Vehicle maintenance building, Building 1881
FGGM23	FGGM23	01-06	Vehicle maintenance building, Building 1881
FGGM24	FGGM24	01-06	Vehicle maintenance building, Building 1881
FGGM25	FGGM25	01-06	Vehicle maintenance building, Building 1881
FGGM26	FGGM26	01-06	Vehicle maintenance building, Building 1881
FGGM27	FGGM27	01-06	Vehicle maintenance building, Building 1881
FGGM28	FGGM28	01-06	Vehicle maintenance building, Building 1881
FGGM29	FGGM29	01-06	Vehicle maintenance building, Building 1881
FGGM30	FGGM30	01-06	Vehicle maintenance building, Building 1881
FGGM31	FGGM31	01-06	Vehicle maintenance building, Building 1881
FGGM32	FGGM32	01-06	Vehicle maintenance building, Building 1881
FGGM33	FGGM33	01-06	Vehicle maintenance building, Building 1881
FGGM34	FGGM34	01-06	Vehicle maintenance building, Building 1881
FGGM35	FGGM35	01-06	Vehicle maintenance building, Building 1881
FGGM36	FGGM36	01-06	Vehicle maintenance building, Building 1881
FGGM37	FGGM37	01-06	Vehicle maintenance building, Building 1881
FGGM38	FGGM38	01-06	Vehicle maintenance building, Building 1881
FGGM39	FGGM39	01-06	Vehicle maintenance building, Building 1881
FGGM40	FGGM40	01-06	Vehicle maintenance building, Building 1881
FGGM41	FGGM41	01-06	Vehicle maintenance building, Building 1881
FGGM42	FGGM42	01-06	Vehicle maintenance building, Building 1881
FGGM43	FGGM43	01-06	Vehicle maintenance building, Building 1881
FGGM44	FGGM44	01-06	Vehicle maintenance building, Building 1881
FGGM45	FGGM45	01-06	Vehicle maintenance building, Building 1881
FGGM46	FGGM46	01-06	Vehicle maintenance building, Building 1881
FGGM47	FGGM47	01-06	Vehicle maintenance building, Building 1881
FGGM48	FGGM48	01-06	Vehicle maintenance building, Building 1881
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FGGM50	FGGM50	01-06	Vehicle maintenance building, Building 1881
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FGGM59	FGGM59	01-06	Vehicle maintenance building, Building 1881
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FGGM63	FGGM63	01-06	Vehicle maintenance building, Building 1881
FGGM64	FGGM64	01-06	Vehicle maintenance building, Building 1881
FGGM65	FGGM65	01-06	Vehicle maintenance building, Building 1881
FGGM66	FGGM66	01-06	Vehicle maintenance building, Building 1881
FGGM67	FGGM67	01-06	Vehicle maintenance building, Building 1881
FGGM68	FGGM68	01-06	Vehicle maintenance building, Building 1881
FGGM69	FGGM69	01-06	Vehicle maintenance building, Building 1881
FGGM70	FGGM70	01-06	Vehicle maintenance building, Building 1881
FGGM71	FGGM71	01-06	Vehicle maintenance building, Building 1881
FGGM72	FGGM72	01-06	Vehicle maintenance building, Building 1881
FGGM73	FGGM73	01-06	Vehicle maintenance building, Building 1881
FGGM74	FGGM74	01-06	Vehicle maintenance building, Building 1881
FGGM75	FGGM75	01-06	Vehicle maintenance building, Building 1881
FGGM76	FGGM76	01-06	Vehicle maintenance building, Building 1881
FGGM77	FGGM77	01-06	Vehicle maintenance building, Building 1881
FGGM78	FGGM78	01-06	Vehicle maintenance building, Building 1881
FGGM79	FGGM79	01-06	Vehicle maintenance building, Building 1881
FGGM80	FGGM80	01-06	Vehicle maintenance building, Building 1881
FGGM81	FGGM81	01-06	Vehicle maintenance building, Building 1881
FGGM82	FGGM82	01-06	Vehicle maintenance building, Building 1881
FGGM83	FGGM83	01-06	Vehicle maintenance building, Building 1881
FGGM84	FGGM84	01-06	Vehicle maintenance building, Building 1881
FGGM85	FGGM85	01-06	Vehicle maintenance building, Building 1881
FGGM86	FGGM86	01-06	Vehicle maintenance building, Building 1881
FGGM87	FGGM87	01-06	Vehicle maintenance building, Building 1881
FGGM88	FGGM88	01-06	Vehicle maintenance building, Building 1881
FGGM89	FGGM89	01-06	Vehicle maintenance building, Building 1881
FGGM90	FGGM90	01-06	Vehicle maintenance building, Building 1881
FGGM91	FGGM91	01-06	Vehicle maintenance building, Building 1881
FGGM92	FGGM92	01-06	Vehicle maintenance building, Building 1881
FGGM93	FGGM93	01-06	Vehicle maintenance building, Building 1881
FGGM94	FGGM94	01-06	Vehicle maintenance building, Building 1881
FGGM95	FGGM95	01-06	Vehicle maintenance building, Building 1881
FGGM96	FGGM96	01-06	Vehicle maintenance building, Building 1881
FGGM97	FGGM97	01-06	Vehicle maintenance building, Building 1881
FGGM98	FGGM98	01-06	Vehicle maintenance building, Building 1881
FGGM99	FGGM99	01-06	Vehicle maintenance building, Building 1881
FGGM100	FGGM100	01-06	Vehicle maintenance building, Building 1881

Fort George G. Meade

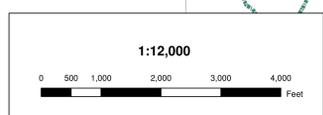


Legend

- Well (Installation Restoration Program - Open Site)
- SMP Status
 - Installation Restoration Program - Open Site
 - Military Munitions Response Program - Open Site
 - Base Realignment and Closure - Open Site
 - Installation Restoration Program - No Further Action
 - Military Munitions Response Program - No Further Action
 - Base Realignment and Closure - No Further Action
- Unassigned Open Site
- Installation Boundary
- Patuxent Research Refuge, North Tract
- Airfield
- Railroad
- Road
- Golf Course
- Wastewater Treatment Plant
- Former Building/Structure
- Building/Structure
- Drainage
- Surface Waterbody



Source of PMR is USACE, 2007.
 Source of basemap is Fort Meade GIS, 2006.
 NOTE: Base GIS does not update features outside the boundary of Fort Meade.



CLIENT: USACOE Baltimore District	LOCATION: Fort George G. Meade, Maryland
DATE: 08/11/11	FILE: G:\Projects\Fort_Meade\Site Management\Plan\All_SMP_mapgrid_20110628.mxd
12420 Milestone Center Drive Germantown, MD 20876	
Site Management Plan All Locations	