FY2012

GILLEM ENCLAVE

Army Defense Environmental Restoration Program

Installation Action Plan

Printed 24 January 2013

Table of Contents

Statement Of Purpose 1

Acronyms 2

Installation Information 3

5-Year / Periodic Review Summary 4

Cleanup Program Summary 5

Installation Restoration Program 6

- IRP Summary 7
- IRP Contamination Assessment 8
- IRP Previous Studies 9

Installation Restoration Program Site Descriptions 10

- FTG-03 900 AREA - IND. WW TRMT. PLANT 11
- FTG-04 900 AREA - SOLVENT DISPOSAL PIT 12
- FTG-05 900 AREA - HEATING PLANT 14
- FTG-06 900 AREA - VEHICLE WASHRACK 15
- FTG-13 WESTERN SEWAGE TREATMENT PLANT 16

Installation Restoration Program Site Closeout (No Further Action) Sites Summary 17

IRP Schedule 18

- Installation Restoration Program Milestones 18
- IRP Schedule Chart 19

Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multiyear cleanup program for an installation. The plan identifies environmental cleanup requirements at each site or area of concern (AOC), and proposes a comprehensive, installation-wide approach, along with the costs and schedules associated with conducting investigations and taking the necessary remedial actions (RA).

In an effort to coordinate planning information between the restoration manager, the Installation Management Command (IMCOM), the US Army Environmental Command (USAEC), Gillem Enclave, the executing agencies, regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules, and budgets for all major Army installation cleanup programs.

All site-specific funding and schedule information has been prepared according to projected overall Army funding levels and is, therefore, subject to change.

Acronyms

Installation Information

Installation Locale

Installation Size (Acreage): 259
City: Forest Park
County: Clayton
State: Georgia
Other Locale Information

The Gillem Enclave (GE) is a sub-installation of Fort McPherson and is located adjacent to Forest Park, in Clayton County, one of the counties comprising the metropolitan Atlanta, Georgia area. Lake City is located on the western boundary and Hartsfield-Jackson International Airport is situated approximately two miles northwest of the installation. The Gillem Enclave comprises approximately 259 acres and is surrounded by residential and commercial properties.

Installation Mission

The Gillem Enclave is currently home to the Georgia Army National Guard, the remainder of the 81st RRC units, Navy Reserve Intelligence Area 14, and the Criminal Investigation Division (CID) Forensics Laboratory.

Lead Organization

Lead Executing Agencies for Installation

USAEC

Regulator Participation

State Georgia Environmental Protection Division

National Priorities List (NPL) Status

Gillem Enclave is not on the NPL

Installation Restoration Advisory Board (RAB)/Technical Review Committee (TRC)/Technical Assistance for Public Participation (TAPP) Status

The community has expressed no sufficient, sustained interest in a RAB.

Installation Program Summaries

IRP

Primary Contaminants of Concern: Semi-volatiles (SVOC), Volatiles (VOC)

Affected Media of Concern: Groundwater, Soil

5-Year / Periodic Review Summary

5-Year / Periodic Review Summary

Status	Start Date	End Date	End FY
Complete	200504	200507	2005

Last Completed 5-Year / Periodic Review Details

Associated ROD/DD Name	Sites
North Landfill Area Drum Removal	FTG-01

Results defer to final remedy by 200709

Actions defer to final remedy by 200709

Plans defer to final remedy by 200709

Recommendations and Implementation Plans:

Cleanup Program Summary

Installation Historic Activity

The Gillem Enclave is located in a populated area of northern Clayton County, approximately 10 miles south-southeast of downtown Atlanta. The towns of Lake City and Forest Park are adjacent to the western and southwestern boundaries of the installation, and the town of Morrow is located to the south of the installation.

The US Army established Fort Gillem in 1940 with the simultaneous construction of the Atlanta Quartermaster Depot and the Atlanta Ordnance Depot. Major portions of these installations were completed by December 1942. The two installations operated as separate facilities until Apr. 1, 1948, when they were consolidated physically and operationally as the Atlanta Army Depot, which was a subcommand of the Army Materiel Command. The Atlanta Army Depot was deactivated on June 28, 1974, and renamed Fort Gillem in honor of Lieutenant General Alvin C. Gillem, former commander of the Third US Army. Administrative control was transferred to Fort McPherson.

The installation was active through World War II, the Korean War, the Berlin Crisis, the Vietnam War, and Operation Desert Shield/Desert Storm during the Persian Gulf conflict. The installation shared responsibility for providing the Army with weapons and equipment needs, research and development, procurement, production, storage, distribution, inventory management, maintenance, and disposal of surplus and waste materials during both peacetime and wartime. In 1967, a logistical training battalion was activated at Fort Gillem to train men and women for Army assignments during the Vietnam War. The installation also provided special training for Medical Service Corps personnel. Fort Gillem provided considerable warehouse storage facilities for the Army and Air Force Exchange Service until February 2011 and the Federal Emergency Management Agency until July 2010.

In November 2005, the US Congress approved the Base Realignment and Closure Commission's recommendation to close Fort Gillem and Fort McPherson. Consequently, the majority of the activities historically conducted at Fort Gillem and Fort McPherson were transferred to other Army posts by September 2011.

As a result of the BRAC Act of 2005, Fort Gillem was reduced to a military enclave. The Gillem Enclave is under the control of Fort Gordon. US Army Garrison-Fort Gordon provides the necessary base operations support and other broad range installation type services to the Enclave.

Installation Program Cleanup Progress

IRP

Prior Year Progress: Remedial investigation (RI) fieldwork is underway. Draft RI/baseline risk assessment (BLRA) reports have been completed for sites FTG-10/7, FTG-09, FTG-04, and FTG-13. Approval is pending.

Future Plan of Action: Continued fieldwork at sites FTG-04 and -13 is expected, active remedial actions may be required to achieve RIP/RC. NFAs are expected at sites FTG-03, 05, and 06. Continued investigation at these sites may be consolidated under future actions at FTG-04.

GILLEM ENCLAVE

Army Defense Environmental Restoration Program
Installation Restoration Program

IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 5/0

Installation Site Types with Future and/or Underway Phases

1 Disposal Pit/Dry Well
(FTG-04)
1 Sewage Treatment Plant
(FTG-13)
1 Underground Storage Tank
(FTG-05)
1 Washrack
(FTG-06)
1 Waste Treatment Plant
(FTG-03)

Most Widespread Contaminants of Concern

Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern

Groundwater, Soil

Completed Remedial Actions (Interim Remedial Actions/ Final Remedial Actions (IRA/FRA))

Site ID	Site Name	Action	Remedy	FY
FTG-04	900 AREA - SOLVENT DISPOSAL PIT	IRA	BIOREMEDIATION	1996
FTG-05	900 AREA - HEATING PLANT	IRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1996
FTG-04	900 AREA - SOLVENT DISPOSAL PIT	IRA	REMOVAL	1997

Duration of IRP

Date of IRP Inception: 197910

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201501/202509

Date of IRP completion including Long Term Management (LTM): 203510

IRP Contamination Assessment

Contamination Assessment Overview

The communities surrounding the Gillem Enclave are well-established. The residential housing that borders the northern boundaries of the Gillem Enclave includes the Forest Park and Conley communities. Mixed commercial/industrial properties border the eastern Highway 23/42 (Moreland Avenue) corridor and southwestern Highway 54 (Jonesboro Road) corridor. The southern installation boundary borders mixed use areas comprised of residential, commercial and industrial properties along Forest Parkway.

Although historical records describing hazardous material use, storage, and disposal are not available from 1940 to the mid-1960s, records indicate that past industrial operations were centered in the 400 and 900 Areas.

Investigations in the 900 Area identified isolated sources of contamination that were removed, although solvent contamination still remains in the groundwater. Investigations during the 1990s in the 900 Area identified a source of contamination at the Solvent Disposal Pit (FTG-04) located on the north side of the former 900 Building. Approximately 1,000 cubic yards of contaminated soil was excavated and treated by ex situ bioremediation. Some organic contamination remains in the groundwater.

Investigations since the 1980s in the North Landfill Area (NLA) have identified contamination in soil, groundwater, and surface water. Volatile organic compounds (VOCs), principally chlorinated solvents, are the most widespread group of contaminants, with metals present to a lesser degree. Two streams drain the NLA and both streams flow into the residential area north of the post. Off-post areas adjacent to the northern and northwestern boundary of the NLA are receptors of groundwater contamination. An off-site investigation was initiated in late 2000 that has identified VOC contamination in groundwater and surface water off-site, especially north of FTG-01, MOU 100, and OU-A. Trichloroethylene (TCE) and 1,1,2,2-tetrachloroethane (PCE) are the most common organic compounds present off-site.

Investigatory sampling in early 2004 identified the presence of VOC contamination in groundwater off-site and northwest of OU-B.

Prior to FY12, BRAC V dollars were utilized to fund investigation and cleanup activities at Fort Gillem. Due to formation of the Gillem Enclave, BRAC V dollars have been pulled and all future funding for the enclave sites will come from Environmental Restoration, Army (ER,A) accounts for active installations. Enclave sites are defined as FTG-03, FTG-04, FTG-05, FTG-06 and FTG-13.

Cleanup Exit Strategy

The SIs will be completed for three of the five enclave (non-BRAC) sites. The RI/FS, RD, RA-C, RA-O and LTM phases are projected for sites FTG-04 and FTG-013. Please see individual site exit strategies for details.

IRP Previous Studies

	Title	Author	Date
1980			
	Installation Assessment of Fort Gillem, Report No. 167	USATHAMA	MAR-1980
1981			
	Installation Assessment, Fort Gillem, Atlanta, Georgia	The Bionetics Corp.	MAY-1981
1982			
	Environmental Survey of Fort Gillem, Georgia	ESE Inc.	NOV-1982
1991			
	Environmental Investigation, 900 Area	Hartrampf Inc.	JUL-1991
1995			
	Expanded SI Report 900 Area	Rust Environmental & Infrastructure	SEP-1995
2006			
	SI Report for the 900 Area, FTG-05 and FTG-06	Shaw	APR-2006
	SI Report for the 900 Area Industrial Wastewater Treatment Plant FTG-03	Shaw	JUL-2006
2007			
	Supplemental Installation Wide Background Study Work plan	Shaw/HGL	AUG-2007
	BRAC 2005 Site Investigation Work plan	Shaw	OCT-2007
2008			
	RI and Baseline Risk Assessment Report FTG-04	HGL	JUL-2008
2009			
	Site Investigation Report 900 Area Heating Plant FTG-05	Shaw	SEP-2009
2011			
	Work Plan for Revised RI and Baseline Risk Assessment FTG-13	Northwind	JAN-2011
	Site Investigation Report 900 Area Vehicle Washrack FTG-06	Shaw	MAY-2011
	Work plan for Revised RI and Baseline Risk Assessment FTG-04	Northwind	AUG-2011
	SI Report 900 Area Industrial Wastewater Treatment Plant FTG-03	Shaw	SEP-2011

GILLEM ENCLAVE

Installation Restoration Program

Site Descriptions

Site ID: FTG-03
Site Name: 900 AREA - IND. WW TRMT. PLANT

STATUS

Regulatory Driver: CERCLA

RRSE: HIGH

Contaminants of Concern: Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA	199203	199206
SI	199203	201311

RIP Date: N/A

RC Date: 201312

SITE DESCRIPTION

An SI report is scheduled to be prepared and submitted to the GA EPD requesting NFA. No LTM is anticipated.

CLEANUP/EXIT STRATEGY

Future actions will be based on results of the SI.

Site ID: FTG-04
Site Name: 900 AREA - SOLVENT DISPOSAL PIT

STATUS

Regulatory Driver: CERCLA

RRSE: HIGH

Contaminants of Concern: Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Sediment, Surface Water

Phases	Start	End
PA	199203	199206
SI	199203	199306
RI/FS	199307	201309
RD	200506	201310
IRA	199312	199611
RA(C)	200509	201312
RA(O)	201401	202309
LTM	202310	203310

RIP Date: 201401

RC Date: 202309

SITE DESCRIPTION

The Solvent Disposal Pit (SDP) and the former 900 Building are combined to form site FTG-04. The SDP has been identified as a source of chlorinated solvents released into the soil and groundwater as a result of past operations.

Approximately 1,000 cubic yards of petroleum hydrocarbon- and solvent-contaminated soil were excavated from the SDP and bioremediated using indigenous microorganisms in an air-supplied soil pile treatment system. The excavation site was backfilled with the treated soil.

The 900 Building, now removed, was the largest building in the 900 area industrial complex. The building was used for depot maintenance of aircraft. Wastes from the activities in the 900 depot building may have also been discharged into the SDP.

In 1995 an ESI was performed in this area. It concluded that the 900 Building floor drain system and the SDP were sources of contamination to the shallow aquifer.

In March 1996 the Directorate of Public Works (DPW), Environmental Division performed an invasive investigation at the former location of the 900 Building. The exploratory investigation was implemented in order to initially characterize contamination associated with the piping and soil to alleviate any delays that may occur during the planned construction activities in this area. Most of the geophysical anomalies that were identified in the ESI report were found to be associated with either large boulders, concrete and rebar, or loose sections of ductile steel pipe. The DPW removed the piping identified during November 1996.

A risk assessment work plan has been prepared for FTG-04. An RI work plan was developed for additional field investigation work at FTG-04 to close data gaps. The RI work plans for FTG-04 and FTG-13 have been combined into one document.

In June and July 2006 a field investigation focused on collecting supplemental RI field data was completed. The field investigation focused on the collection of additional groundwater (on-site and off-site), surface water, and sediment data. Trichloroethylene has been detected above the maximum contaminant limit (MCL) in groundwater beyond the installation boundary. The solvent was detected below action levels in off-post stream samples. Groundwater quality data was also collected to evaluate the effectiveness of MNA.

The draft RI/BLRA was completed, summarizing the field investigation work, and an FFS report will be prepared. The FFS will include an evaluation of MNA through LTM as a final remedy for the site groundwater and possible LUCs for soils, based upon the results of the BLRA.

Site ID: FTG-04
Site Name: 900 AREA - SOLVENT DISPOSAL PIT

CLEANUP/EXIT STRATEGY

After completion of the RI report, corrective measures and remedial actions are expected to meet regulatory requirements. Land use controls should be put in place to address potential receptors.

Site ID: FTG-05
Site Name: 900 AREA - HEATING PLANT

STATUS

Regulatory Driver: CERCLA

RRSE: HIGH

Contaminants of Concern: Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA	199203	199206
SI	199203	201308
IRA	199512	199601

RIP Date: N/A

RC Date: 201406

SITE DESCRIPTION

An SI report was submitted to the GAEPD in September 2009, GAEPD comments on the SI report were received on Dec. 20, 2010. Based on the GAEPD comments, additional work will be required on the SI.

CLEANUP/EXIT STRATEGY

After completion and approval of the SI report, the installation will request an NFA statement.

Site ID: FTG-06
Site Name: 900 AREA - VEHICLE WASHRACK

STATUS

Regulatory Driver: CERCLA

RRSE: HIGH

Contaminants of Concern: Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA	199203	199206
SI	199203	201309

RIP Date: N/A

RC Date: 201310

SITE DESCRIPTION

An SI report is scheduled to be prepared and submitted to GAEPD requesting NFA. No LTM is anticipated.

CLEANUP/EXIT STRATEGY

After completion and approval of the SI report, the installation will request an NFA statement.

Site ID: FTG-13
Site Name: WESTERN SEWAGE TREATMENT PLANT

STATUS

Regulatory Driver: CERCLA

RRSE: HIGH

Contaminants of Concern: Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil, Surface Water

Phases	Start	End
PA	197910	198003
SI	198204	198211
RI/FS	200309	201312
RD	200309	201312
RA(C)	201312	201412
RA(O)	201501	202509
LTM	202510	203510

RIP Date: 201501

RC Date: 202509

SITE DESCRIPTION

The Western Sewage Treatment Plant (WSTP), located in the northwestern portion of the installation, was in operation from 1951 to 1978. The operation consisted of a low rate, single stage trickling filter plant, followed by a secondary clarification. The waste streams entering the treatment plant consisted mainly of sanitary waste from post operations; however, during the early-1970s, the WSTP intermittently received industrial waste diverted from the industrial waste treatment plant. An ESI was performed at this site in 1994.

The soil gas samples indicated localized, elevated levels of petroleum hydrocarbons and elevated TCE in the east central part of the site. Low concentrations of PCE were detected in a sludge drying bed. In groundwater, TCE above the MCL was detected in the northern and southwestern parts of the site; this compound was present in both the bedrock and saprolite at the northern property line. Groundwater contamination found during the ESI and FY00 sampling may be attributed to an upgradient source not associated with the WSTP. Trichloroethylene in excess of the MCL occurs in the groundwater at the installation boundary. Solvents were detected in the surface water off the installation and north of the WSTP.

In 2006 an RI work plan was completed and a supplemental RI field investigation was completed in June and July 2006. This field investigation focused on the collection of additional groundwater, surface soil, sediment, and surface water quality data. TCE in excess of the MCL was detected in groundwater beyond the installation boundary.

A draft final RI baseline risk assessment has been prepared and is currently under Army review.

CLEANUP/EXIT STRATEGY

After completion of the RI report, corrective measures and remedial actions are expected at the site to meet regulatory requirements. Land use controls should be put in place to address potential receptors.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation

There are no NFA sites

IRP Schedule

Date of IRP Inception: 197910

Past Phase Completion Milestones

1980

PA (FTG-13 - WESTERN SEWAGE TREATMENT PLANT)

1983

SI (FTG-13 - WESTERN SEWAGE TREATMENT PLANT)

1992

PA (FTG-03 - 900 AREA - IND. WW TRMT. PLANT, FTG-04 - 900 AREA - SOLVENT DISPOSAL PIT, FTG-05 - 900 AREA - HEATING PLANT, FTG-06 - 900 AREA - VEHICLE WASHRACK)

1993

SI (FTG-04 - 900 AREA - SOLVENT DISPOSAL PIT)

1996

IRA (FTG-05 - 900 AREA - HEATING PLANT)

1997

IRA (FTG-04 - 900 AREA - SOLVENT DISPOSAL PIT)

Projected Phase Completion Milestones

See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

Site ID	Site Name	ROD/DD Title	ROD/DD Date
FTG-04	900 AREA - SOLVENT DISPOSAL PIT	Insitu Soil Remediation	20120530

Final RA(C) Completion Date: 201412

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of IRP at Installation (including LTM phase): 203510

Gillem Enclave IRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
FTG-03	900 AREA - IND. WW TRMT. PLANT	SI						
SITE ID	**SITE NAME**	**PHASE**	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18+**
FTG-04	900 AREA - SOLVENT DISPOSAL PIT	RI/FS						
		RD						
		RA(C)						
		RA(O)						
		LTM						
SITE ID	**SITE NAME**	**PHASE**	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18+**
FTG-05	900 AREA - HEATING PLANT	SI						
SITE ID	**SITE NAME**	**PHASE**	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18+**
FTG-06	900 AREA - VEHICLE WASHRACK	SI						
SITE ID	**SITE NAME**	**PHASE**	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18+**
FTG-13	WESTERN SEWAGE TREATMENT PLANT	RI/FS						
		RD						
		RA(C)						
		RA(O)						
		LTM						

Community Involvement

Technical Review Committee (TRC): None

Community Involvement Plan (Date Published): 200202

Restoration Advisory Board (RAB): No

Reason Not Established: The community has expressed no sufficient, sustained interest in a RAB.

Community Interest Solicited on: 200909

Efforts Taken to Determine Interest

In 1993 a door-to-door survey was conducted to determine if there was an interest in the Installation Restoration Program (IRP). All interested parties were sent fact sheets concerning IRP activities at FTG. A public meeting was conducted in spring 1994 addressing the NLA. Approximately 25 community members attended the meeting.

A community survey was conducted and 10 community residents expressed an interest in touring the facility. In 1997 an invitation was sent to these 10 residents and four indicated they would attend a bus tour; however, no one showed up on the morning of the scheduled tour.

A RAB survey was conducted in FY98, FY01, and FY09. Fact sheets are distributed to interested community members, but there was not enough interest shown to justify forming a RAB.

Results

There was not enough interest shown to justify forming a RAB.

Follow-up Procedures

An updated community involvement plan was finalized in January 2002. To assess public interest, a RAB solicitation was accomplished in September 2009. There was not enough interest to establish a RAB at FTG.

Additional Community Involvement Information

None

Administrative Record is located at

BRAC Environmental Division
1508 Hood Ave., Bldg. 714
Fort Gillem, Georgia 30297

Information Repository is located at

Clayton County Library
865 Battle Creek Road
Jonesboro, GA 30236

Current Technical Assistance for Public Participation (TAPP): N/A

TAPP Title: N/A

Potential TAPP: N/A