

FY2016

AFRC FORT WADSWORTH
Army Defense Environmental Restoration Program
Installation Action Plan

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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 environmental restoration manager, the 99th Regional Support Command (RSC), the US Army Environmental Command (USAEC), the Installation Management Command-Army Reserve Directorate (IMCOM-ARD), the Armed Forces Reserve Center (AFRC)-Fort Wadsworth, 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

AEDB-R	Army Environmental Database - Restoration
AFRC	Armed Forces Reserve Center
AOC	Area of Concern
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DD	Decision Document
DERP	Defense Environmental Restoration Program
DRO	Diesel Range Organics
FY	Fiscal Year
IAP	Installation Action Plan
IMCOM-ARD	Installation Management Command - Army Reserve Directorate
IRP	Installation Restoration Program
LSI	Limited Site Investigation
LTM	Long-Term Management
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NFA	No Further Action
NPL	National Priorities List
NY	New York
NYSDEC	New York State Department of Environmental Conservation
OMS	Operation and Maintenance Shop
OWS	Oil Water Separator
POL	Petroleum, Oil, and Lubricants
RA	Remedial Action
RAB	Restoration Advisory Board
RIP	Remedy-in-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
RSC	Regional Support Command
SCO	Soil Cleanup Objectives
SVOC	Semi-Volatile Organic Compound
TAPP	Technical Assistance for Public Participation
TBD	To Be Determined
TRC	Technical Review Committee
ug/L	micrograms per liter
USAEC	US Army Environmental Command
USAR	US Army Reserve
USARC	United States Army Reserve Center
UST	Underground Storage Tank
VOC	Volatile Organic Compound

Installation Information

Installation Locale

Installation Size (Acreage): 5

City: Rochester

County: Monroe

State: New York (NY)

Other Locale Information

In 1954, the United States Government acquired 5 acres of land in Rochester, NY, for the purpose of constructing a new US Army Reserve Center (USARC). The James W. Wadsworth USARC is currently referred to as AFRC Fort Wadsworth. The property is bounded by Goodman Street North to the east, private residences to the south, and St. Ann's Community (retirement/nursing home) to the west and north. The property is within the town limits of Irondequoit with a Rochester postal mailing address. The property consists of an approximately 5-acre rectangular parcel. The address is 2035 Goodman Street North, Rochester, NY.

Installation Mission

As of the beginning of fiscal year (FY)15, the AFRC had no active units and the buildings were unoccupied. As of July 2014, the Army Reserve was preparing to dispose of the James W. Wadsworth USARC.

Lead Organization

US Army Reserve

Lead Executing Agencies for Installation

99th RSC

Regulator Participation

Federal Pending

State Pending

National Priorities List (NPL) Status

AFRC FORT WADSWORTH is not on the NPL

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

Installation Program Summaries

IRP

Primary Contaminants of Concern: Petroleum, Oil and Lubricants (POL), Semi-volatiles (SVOC), Volatiles (VOC)

Affected Media of Concern: Groundwater, Soil

5-Year / Periodic Review Summary

No 5-Year / Periodic Reviews have been scheduled

Cleanup Program Summary

Installation Historic Activity

The AFRC buildings were constructed in 1955 and expanded in 1979. The installation consists of improved land with an administration building, an organizational maintenance shop (OMS) building, a military equipment parking area, and three privately owned vehicle parking areas. The installation maintained three former underground storage tanks (UST): one 550-gallon waste oil UST, one 15,000-gallon fuel oil UST, and one 2,000-gallon fuel oil UST. The 550-gallon waste oil UST was located southeast of the OMS and was associated with a washrack and oil-water separator. The former 550-gallon waste oil UST and associated washrack and oil-water separator were installed in the 1980s and removed in 1999. A UST closure report concluded that analytical soil data indicated petroleum concentrations were above the New York State Department of Environmental Conservation (NYSDEC) alternative guidance values for solids. The 550-gallon waste oil UST incident was closed by the NYSDEC on Feb. 5, 2004. The 15,000-gallon and 2,000-gallon fuel oil USTs appear to be the source of contaminant impacted soil and groundwater.

Installation Program Cleanup Progress

IRP

Prior Year Progress: Contract to investigate two former USTs at Site 01 was awarded in April 2016.

Future Plan of Action: Continue and complete investigation of two former USTs at Site 01.

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IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 6/5

Installation Site Types with Future and/or Underway Phases

1 Underground Storage Tank
(SITE 01)

Most Widespread Contaminants of Concern

Petroleum, Oil and Lubricants (POL), 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
N/A				

Duration of IRP

Date of IRP Inception: 198901

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201805/201805

Date of IRP completion including Long Term Management (LTM): 201805

IRP Contamination Assessment

Contamination Assessment Overview

In 1955, the 15,000-gallon fuel oil UST was installed west of the administration building. An Aug. 20, 1990 letter from the Director of Engineering and Housing to the NYSDEC stated that the 15,000-gallon UST had been permanently abandoned in place on May 18, 1988 and filled with a concrete slurry. Additional closure records pertaining to the soil and groundwater conditions were not located for this UST.

The 2,000-gallon fuel oil UST was located southwest of the OMS building. The installation date is unknown, but it appears in a 1977 site map. The removal date is also unknown but is believed to have occurred during the 1988 site renovations. Closure records were not located for this UST.

During the performance of a limited site investigation (LSI) (PARS, 2014) soil borings were advanced adjacent to the north, south, east and west sides of the 15,000-gallon UST. The borings were advanced to depths ranging from 10 to 12 feet below ground surface (bgs) using a Geoprobe direct-push rig. Groundwater was encountered at a depth of approximately 10 feet bgs. Because the base of the UST was estimated to be 9 feet bgs, one sample was collected from each boring at a depth of 9-9.5 feet bgs. An oily sheen was noted in borings SB-001 and SB-002 at depths ranging from about 5 to 12 feet bgs.

The soil samples collected from borings SB-001, SB-002, SB-003 and SB-004 contained diesel range organics (DRO) at concentrations of 2,720 milligrams per kilogram (mg/kg), 38.8 mg/kg, 4.5 mg/kg, and 52 mg/kg respectively.

The groundwater sample collected from the well point installed in soil boring SB-001 contained a DRO concentration of 6,550 micrograms per liter ($\mu\text{g/L}$). Also, soil borings SB-005 and SB-006 were advanced to a depth of 6 feet bgs adjacent to the south and north sides of the former 2,000-gallon UST location, respectively. Due to access issues, the borings were advanced by hand auger. Refusal was encountered at 6 feet bgs. Groundwater was not encountered in these two borings. One soil sample was collected from each boring at depths between 4.5 and 5 and between 5.5 and 6 feet bgs, respectively.

The analytical results suggest that there was a discharge of fuel oil at both UST locations. The NYSDEC has not established soil or groundwater standards for DRO; however, DROs are semi-volatile compounds with carbon numbers in the C10-C28 range, which includes naphthalene (C10), fluorene (C13), anthracene (C14), pyrene (C16), and benzo (g,h,i) perylene (C22). The NYSDEC soil cleanup objectives (SCO) for these compounds are 100 mg/kg residential, 100 mg/kg restricted residential, 500 mg/kg commercial, and 1,000 mg/kg industrial. Using the SCOs as guidelines, it is possible that one or more of these compounds may be present at concentrations that exceed one or more of the standards, including the commercial and industrial standards.

Similarly, the groundwater standard for naphthalene is 10 $\mu\text{g/L}$. The detected concentration of 6,550 $\mu\text{g/L}$ suggests the concentration of naphthalene and/or other compounds may exceed their corresponding standards.

Cleanup Exit Strategy

The historical and current land use for AFRC Fort Wadsworth in Rochester, NY is industrial. It is anticipated that future land use of this property will continue to be industrial. The installation is scheduled for disposal and due to the lack of documentation of the presence or absence of petroleum contamination in the location of the 15,000-gallon and 2,000-gallon fuel oil USTs, further investigation is warranted to assess potential contaminant impact to media (groundwater and soil). The Army, as the lead agency, is conducting response actions at Site 01 in accordance with the Defense Environmental Restoration Program (DERP), which requires restoration activities be conducted in accordance with Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP); however, petroleum, including crude oil and any fraction thereof, is specifically excluded from the CERCLA definition of a hazardous substance and is therefore not regulated under the CERCLA authority. Because Site 01 is a former fuel oil UST area and petroleum is exempt from CERCLA, response actions are being conducted in accordance with NYSDEC DER-10/ Technical Guidance for Site Investigation and Remediation (May 2010; Chapter 5 Remedial Design/Remedial Action).

IRP Previous Studies

Title

Author

Date

There are no Previous Studies

AFRC FORT WADSWORTH
Installation Restoration Program
Site Descriptions

Site ID: SITE 01
Site Name: #2 FUEL OIL UST

STATUS

Regulatory Driver: RCRA

RRSE: NOT EVALUATED

Contaminants of Concern: Petroleum, Oil and Lubricants (POL), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
ISC.....	198901.....	199401
INV.....	201403.....	201805

RIP Date: N/A

RC Date: 201805

SITE DESCRIPTION

This site was reopened in FY15 due to results of testing in the Environmental Conditions of Property and LSI. Results show that two tanks, one 15,000-gal UST and one 2,000-gal UST, that were documented as closed had impacted the soil around them. A contract to investigate both tank areas was awarded in April 2016.

CLEANUP/EXIT STRATEGY

The site is currently under contract for an investigation. The Army, as the lead agency, is conducting response actions at Site 01 in accordance with the DERP, which requires restoration activities be conducted in accordance with CERCLA and the NCP; however, petroleum, including crude oil and any fraction thereof, is specifically excluded from the CERCLA definition of a hazardous substance and is therefore not regulated under the CERCLA authority. Because Site 01 is a former fuel oil UST area and petroleum is exempt from CERCLA, response actions are being conducted in accordance with NYSDEC DER-10/ Technical Guidance for Site Investigation and Remediation (May 2010; Chapter 5 Remedial Design/Remedial Action).

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
SITE 02	DRUM STORAGE AREA	199401	
SITE 03	FLAMMABLES STORAGE ROOM	199401	
SITE 04	VEHICLE WASH RACK	199401	
SITE 05	TRANSFORMER	199401	
SITE 06	#2 FUEL OIL UST	199401	

IRP Schedule

Date of IRP Inception: 198901

Past Phase Completion Milestones

1994

RFA (SITE 02 - DRUM STORAGE AREA, SITE 05 - TRANSFORMER)

ISC (SITE 01 - #2 FUEL OIL UST, SITE 06 - #2 FUEL OIL UST)

PA (SITE 03 - FLAMMABLES STORAGE ROOM, SITE 04 - VEHICLE WASH RACK)

Projected Phase Completion Milestones

See attached schedule

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

To Be Determined

Final RA(C) Completion Date:

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of IRP at Installation (including LTM phase): 201805

AFRC FORT WADSWORTH IRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
SITE 01	#2 FUEL OIL UST	INV						

Community Involvement

Technical Review Committee (TRC): None

Community Involvement Plan (Date Published): TBD

Restoration Advisory Board (RAB): No

Reason Not Established:

Name of Installation with RAB:

Additional Community Involvement Information

The installation is in the process of determining interest in establishing a RAB.

Administrative Record is located at

99th RSC HEADQUARTERS
AFRC-SNJ-PW-E
5231 SOUTH SCOTT PLAZA
JOINT BASE MCGUIRE DIX LAKEHURST, NEW JERSEY 08640
IRP POC 609.562.7661

Information Repository is located at

99th RSC HEADQUARTERS
AFRC-SNJ-PW-E
5231 SOUTH SCOTT PLAZA
JOINT BASE MCGUIRE DIX LAKEHURST, NEW JERSEY 08640
IRP POC 609.562.7661

Potential TAPP: N/A

