

**FY2016**

**SIEVERS-SANDBERG USARC**

**Army Defense Environmental Restoration Program**

**Installation Action Plan**

Printed 30 August 2016

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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 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-CC	Army Environmental Database - Compliance-related Cleanup
AEDB-R	Army Environmental Database - Restoration
AOC	Area of Concern
CC	Compliance-related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CR	Compliance Restoration
DD	Decision Document
DERP	Defense Environmental Restoration Program
EBS	Environmental Baseline Survey
FRA	Final Remedial Actions
FS	Feasibility Study
FY	Fiscal Year
GPR	Ground Penetrating Radar
GW	Groundwater
HHRA	Human Health Risk Assessment
IAP	Installation Action Plan
IMCOM-ARD	Installation Management Command-Army Reserve Directorate
IR	Installation Restoration
IRA	Interim Remedial Actions
IRP	Installation Restoration Program
LTM	Long-Term Management
LUC	Land Use Control
MMRP	Military Munitions Response Program
NFA	No Further Action
NJ	New Jersey
NPL	National Priorities List
ODUSD (I&E)	Office of the Deputy Under Secretary of Defense (Installations & Environment)
OU	Operable Unit
PP	Proposed Plan
RA	Remedial Action
RA(C)	Remedial Action - Construction
RAB	Restoration Advisory Board
RC	Response Complete
RI	Remedial Investigation
RIP	Remedy-in-Place
ROD	Record of Decision
RSC	Regional Support Command
SI	Site Inspection
TAPP	Technical Assistance for Public Participation
TBD	To Be Determined
TRC	Technical Review Committee
US	United States
USACHPPM	US Army Center for Health Promotion and Preventive Medicine
USAEC	US Army Environmental Command
USARC	US Army Reserve Command

## Acronyms

USEPA US Environmental Protection Agency

VOC Volatile Organic Compound

## Installation Information

### Installation Locale

**Installation Size (Acreage):** 40

**City:** Pedricktown

**County:** Salem

**State:** New Jersey (NJ)

### Other Locale Information

This property has been used by the United States (US) federal government since 1918. Over the years the property has been used as a support depot for the port of Philadelphia, ammunition storage, Nike Missile Master Command center, and general training for the Army. The site is currently unused and unoccupied.

### Installation Mission

While not currently used, the installation most recently served as a reserve training center for multiple reserve units through classroom training.

### Lead Organization

US Army Reserve

### Lead Executing Agencies for Installation

99th RSC

### Regulator Participation

**Federal**

US Environmental Protection Agency (USEPA), Region 2

**State**

Anthony Cinque, NJ Department of Environmental Protection  
NJ Department of Environmental Protection

### National Priorities List (NPL) Status

SIEVERS-SANDBERG USARC is not on the NPL

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

Installation has no sites in RI phase.

### Installation Program Summaries

#### CR

**Primary Contaminants of Concern:** Metals, 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
Planned	201808	202002	2020

## 5-Year / Periodic Review Details

Associated ROD/DD Name	Sites
Decision Document for Soil and gw	CC Site 03

## Land Use Control (LUC) Summary

**LUC Title:** LUC for Soil

**Site(s):** CC Site 03

**ROD/DD Title:** Decision Document for Soil and gw

**Location of LUC**

Land Use Control is not specified to a certain location in report and therefore applied to entire site, CC Site 03. However, land use control should be in smaller area adjacent to buildings 464 and 434 where areas of potential environmental concern for Arsenic are identified.

**Land Use Restriction:** Restrict land use - No daycare/hospital/school use, Restrict land use - No residential use

**Types of Engineering Controls:** None

**Types of Institutional Controls:** Restrictions on land use

**Date in Place:** 201309

**Modification Date:** N/A

**Date Terminated:** N/A

**Inspecting Organization:** Installation

**Record of LUC:** Master Plan or Equivalent

**Documentation Date:** N/A

**LUC Enforcement:** 5 Year Reviews

**Contaminants:** METALS

**Additional Information**

N/A

# Cleanup Program Summary

## Installation Historic Activity

This property has been used by the US federal government since 1918. Over the years the property has been used as a support depot for the port of Philadelphia, ammunition manufacturing and storage, housing for military personnel, Nike Missile Master Command center, storage for dredge material, and general training for the Army. The site is currently unused and unoccupied.

## Installation Program Cleanup Progress

### CR

**Prior Year Progress:** Contracting for a remedial investigation (RI)/feasibility study (FS)/proposed plan (PP)/record of decision (ROD) at CC Site 04 was awarded. The decision document (DD) amendment for CC Site 03 is planned to be finalized in late fiscal year (FY)16.

**Future Plan of Action:** The RI/FS for CC Site 04 will be conducted.

**SIEVERS-SANDBERG USARC**  
**Army Defense Environmental Restoration Program**  
**Compliance Restoration**

## CR Summary

**Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count:** 2/0

### Installation Site Types with Future and/or Underway Phases

- 1 Contaminated Fill  
(CC Site 04)
- 1 Contaminated Sediments  
(CC Site 03 )

### Most Widespread Contaminants of Concern

Metals, 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
CC Site 03	36 Acre Uncontaminated Parcel	FRA	INSTITUTIONAL CONTROLS	2013

### Duration of CR

**Date of CR Inception:** 200301

**Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC):** 202106/202106

**Date of CR completion including Long Term Management (LTM):** 202106

## CR Contamination Assessment

### Contamination Assessment Overview

Environmental restoration activities include the Installation Restoration Program (IRP) and Military Munitions Response Program (MMRP). On Dec. 29, 2008, the Office of the Deputy Under Secretary of Defense for Installation and Environment, (ODUSD I&E), issued an interim policy for Defense Environmental Restoration Program (DERP) eligibility that rescinded the 1986 eligibility date for the IRP and the 2002 eligibility date for the MMRP. This made many sites previously addressed in the Army's Compliance-related Cleanup (CC) program eligible for the DERP. Sites that are now eligible for the IRP have been migrated from Army Environmental Database-Compliance-related Cleanup and given the naming convention of other Installation Restoration (IR) sites. The newly eligible sites are considered to be IR sites; however, they are being coded as CR in Army Environmental Database-Restoration (AEDB-R) to distinguish them from the original Installation Restoration (IR) sites and IR metrics. Soil and groundwater have been impacted by metals and volatile organic compounds (VOC).

### Cleanup Exit Strategy

Land use controls (LUC) are the proposed remedy.

## CR Previous Studies

	<b>Title</b>	<b>Author</b>	<b>Date</b>
<b>1991</b>	Preliminary Site Assessment	RMC Environmental Services	APR-1991
<b>1993</b>	Ground Penetrating Radar (GPR) Survey	Versar	AUG-1993
<b>1997</b>	Environmental Baseline Survey	Woodward-Clyde	MAR-1997
	Underground Storage Tank System Closure	Earth Tech	AUG-1997
	Underground Storage Tank System Closure	Earth Tech	OCT-1997
	Results of GPR Surveys and Exploratory Excavations	Earth Tech	NOV-1997
<b>2002</b>	Remedial Action Report for Soil	ARCADIS	MAR-2002
<b>2003</b>	Environmental Baseline Survey	URS	JAN-2003
<b>2005</b>	Site Investigation of Specific Areas of Potential Environmental Concern	Kemron	JAN-2005
<b>2006</b>	Site Inspection Addendum	USACHPPM	JUN-2006
<b>2007</b>	Continued Site Investigation	USACHPPM	APR-2007
<b>2008</b>	Risk Assessment	USACHPPM	JAN-2008
	Human Health Risk Assessment	USACHPPM	MAY-2008
<b>2013</b>	Decision Document, Site CC Site 03	99th RSC	JAN-2013
	Comprehensive Site Assessment	Pars Environmental, Inc.	JAN-2013

# **SIEVERS-SANDBERG USARC**

## **Compliance Restoration**

### **Site Descriptions**

## Site ID: CC Site 03

### Site Name: 36 Acre Uncontaminated Parcel

#### STATUS

Regulatory Driver: CERCLA

Contaminants of Concern: Metals, Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA.....	200301.....	200304
SI.....	200501.....	200601
RI/FS.....	200706.....	201209
RA(C).....	201210.....	201301
LTM.....	201301.....	201605

RIP Date: N/A

RC Date: 201301

#### SITE DESCRIPTION

Sievers-Sandberg US Army Reserve Command (USARC) (aka Camp Pedricktown Reserve enclave) was once part of the larger installation, Camp Pedricktown; only 40 acres currently remain under Army control. Several soil and groundwater studies have occurred: a site inspection (SI) in 2005; an SI addendum in 2006; a risk assessment by US Army Center for Health Promotion and Preventive Medicine (USACHPPM) in 2008; and an arsenic soil delineation study in 2014.

The results of the human health risk assessment (HHRA) showed that the total carcinogenic risk levels identified in soil for future adult residents and industrial and construction workers were found to be within the levels considered safe by the USEPA at the site, but there could be a risk to future child residents due to arsenic. The arsenic, which has been identified previously to be associated with gravel material containing coal slag near the warehousing area in the vicinity of Buildings 434 and 464 (USACHPPM, 2006). In 2012, a DD was finalized with LUCs across the whole installation (40 acres).

Due to the fact that the Army is excessing this land to be transferred outside of Army control, it was decided the LUCs were too restrictive for too much of the property. The 2014 arsenic delineation study showed that the arsenic was limited to 4 acres around Buildings 434 and 464. This data supported the separation of CC Site 03 into two separate operable units (OU); one that poses no risk to human health and the environment (designated OU1, the original site, CC Site 03) and one that retains LUCs as the originally selected RA to prevent unacceptable risks to human health and the environment (OU2; the new CC Site 04). A PP recommending no action for CC Site 03 was completed in early 2015. A DD amendment was developed in mid-2015. As of the spring 2016 AEDB-R data call, the DD Amendment is in the document approval phase. The DD amendment will go final in late 2016.

#### CLEANUP/EXIT STRATEGY

Currently performing arsenic delineation in areas of potential environmental concern identified in previous reports. In FY14, amendment of the DD began. In the document, CC Site 03, will be separated from arsenic contaminated areas, and the LUC will be removed based on the HHRA. A new site, CC Site 04, will be created in AEDB-R to account for area of potential concern with elevated concentrations of arsenic in soil.

# Site ID: CC Site 04

## Site Name: Arsenic in Soil

### STATUS

Regulatory Driver: CERCLA

Phases	Start	End
PA.....	200301.....	201210
RI/FS.....	201503.....	201812
RA(C).....	202006.....	202106
RIP Date:	N/A	
RC Date:	202106	

### SITE DESCRIPTION

Sievers-Sandberg USARC (aka Camp Pedricktown Reserve enclave) was once part of the larger installation, Camp Pedricktown; only 40 acres currently remain under Army control. Several soil and groundwater studies have occurred: an SI in 2005; an SI addendum in 2006; a risk assessment by USACHPPM in 2008; and an arsenic soil delineation study in 2014.

The results of the HHRA showed that the total carcinogenic risk levels identified in soil for future adult residents and industrial and construction workers were found to be within the levels considered safe by the USEPA at the site, but there could be a risk to future child residents due to arsenic. The arsenic, which has been identified previously to be associated with gravel material containing coal slag near the warehousing area in the vicinity of Buildings 434 and 464 (USACHPPM, 2006). In 2012, a DD was finalized with LUCs across the whole installation (40 acres).

Due to the fact that the Army is excessing this land to be transferred outside of Army control, it was decided the LUCs were too restrictive for too much of the property. The 2014 arsenic delineation study showed that the arsenic was limited to 4 acres around Buildings 434 and 464. This data supported the separation of CC Site 03 into two separate OUs; one that poses no risk to human health and the environment (designated OU1, the original site, CC Site 03) and one that retains LUCs as the originally selected RA to prevent unacceptable risks to human health and the environment (OU2; the new CC Site 04).

To help facilitate the property transfer, the 4 acres of CC Site 04 (OU2) will have an RI/FS started in FY16. Following this study and risk assessment, a new PP and DD will be prepared.

### CLEANUP/EXIT STRATEGY

The cleanup strategy is currently unknown. An RI is currently underway with an option for the performance of a FS upon completion of the final RI report. The results of the RI/FS will provide data that will be used to evaluate potential site cleanup/exit strategy options.

## Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
There are no NFA sites			

## CR Schedule

**Date of CR Inception:** 200301

### Past Phase Completion Milestones

**2003**

PA (CC Site 03 - 36 Acre Uncontaminated Parcel)

**2006**

SI (CC Site 03 - 36 Acre Uncontaminated Parcel)

**2012**

RI/FS (CC Site 03 - 36 Acre Uncontaminated Parcel)

**2013**

RA(C) (CC Site 03 - 36 Acre Uncontaminated Parcel)

PA (CC Site 04 - Arsenic in Soil)

### 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
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**Final RA(C) Completion Date:** 202106

**Schedule for Next Five-Year Review:** 2020

**Estimated Completion Date of CR at Installation (including LTM phase):** 202106

## SIEVERS-SANDBERG USARC CR Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CC Site 04	Arsenic in Soil	RI/FS						
		RA(C)						

## Community Involvement

**Technical Review Committee (TRC):** None

**Community Involvement Plan (Date Published):** TBD

**Restoration Advisory Board (RAB):** No

**Reason Not Established:** Installation has no sites in RI phase.

### **Additional Community Involvement Information**

A newspaper solicitation went out in 2012 for the PP. No public responses were received. There is currently a proposed site for the RI phase: however, no sites exist that require RAB solicitation at this time.

### **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

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

**TAPP Title:** N/A

**Potential TAPP:** N/A

