

# **SIEVERS-SANDBERG USARC**

Army Cleanup Program

Installation Action Plan Final

June 2024

**TABLE OF CONTENTS**

**STATEMENT OF PURPOSE ..... 3**

**INSTALLATION OVERVIEW ..... 4**

**ACRONYMS ..... 5**

**PHASE TRANSLATION TABLE ..... 7**

**PROGRAM SUMMARY ..... 8**

**SITE-LEVEL INFORMATION ..... 9**

**1420A.1003\_CC Site 04\_ARSENIC IN SOIL ..... 10**

**SITE SUMMARY ..... 12**

**SITE CLOSEOUT SUMMARY ..... 13**

**COMMUNITY INVOLVEMENT ..... 14**

**FIVE-YEAR / PERIODIC REVIEW SUMMARY ..... 15**

## STATEMENT OF PURPOSE

The Installation Action Plan (IAP) provides evidence that the Army is firmly committed to expeditious identification and cleanup of environmental contamination, and that the installation has a credible, organized program to carry out that commitment. The IAP provides an outline of the total multi-year environmental cleanup program for each site with ongoing or future planned restoration activity and includes the (1) environmental restoration requirements, (2) the rationale for the selected technical approach, and (3) foundation to develop corresponding financial needs for each cleanup site.

## INSTALLATION OVERVIEW

**Installation Name:** SIEVERS-SANDBERG USARC

**Installation City:** Oldman Township & Pedricktown

**Installation County:** Salem

**Installation State:** New Jersey

**Regulatory Participation - Federal:** N/A

**Regulatory Participation - State:** New Jersey Department of Environmental Protection (NJDEP)

## ACRONYMS

Acronym	Definition
CC	Compliance-related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CRL	Cleanup Restoration & Liabilities
ENV	Environmental
FS	Feasibility Study
FYR	Five-Year Review
HHRA	Human Health Risk Assessment
HRS	Hazard Ranking Score
IAP	Installation Action Plan
ID	Identification
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MDL	McGuire-Dix-Lakehurst
mg/kg	milligram per kilogram
MR	Munitions Response
MRSPP	Munitions Response Site Prioritization Protocol
NJ	New Jersey
NJDEP	New Jersey Department of Environmental Protection
NPL	National Priorities List
OU	Operable Unit
PA	Preliminary Assessment
PP	Proposed Plan
RAB	Restoration Advisory Board
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-in-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
SC	Site Closeout
SI	Site Inspection

Acronym	Definition
TAPP	Technical Assistance for Public Participation
TBD	To Be Determined
ug/L	micrograms per liter
USARC	US Army Reserve Center

## PHASE TRANSLATION TABLE

CERCLA Phase	RCRA Phase	RCRA UST Phase
Preliminary Assessment (PA)	RCRA Facility Assessment (RFA)	Initial Site Characterization (ISC)
Site Inspection (SI)	Confirmation Sampling (CS)	Investigation (INV)
Remedial Investigation/ Feasibility Study (RI/FS)	RCRA Facility Investigation/Corrective Measures Study (RFI/CMS)	Corrective Action Plan (CAP)
Remedial Design (RD)	Design (DES)	Design (DES)
Interim Remedial Action (IRA)	Interim Measure (IM)	Interim Remedial Action (IRA)
Remedial Action (Construction) (RA(C))	Corrective Measures Implementation (Construction) (CMI(C))	Implementation (Construction) (IMP(C))
Remedial Action (Operations) (RA(O))	Corrective Measures Implementation (Operations) (CMI(O))	Implementation (Operations) (IMP(O))
Long-Term Management (LTM)	Long-Term Management (LTM)	Long-Term Management (LTM)

## **PROGRAM SUMMARY**

**Number of Open Sites with Response Complete/Total Open IR Sites: 0/1**

**Number of Open Sites with Response Complete/Total Open MR Sites: 0/0**

**Number of Open Sites with Response Complete/Total Open CC Sites: 0/0**

## SITE-LEVEL INFORMATION

## 1420A.1003\_CC Site 04\_ARSENIC IN SOIL

**Env Site ID:** CC Site 04

**Cleanup Site:** ARSENIC IN SOIL

**Alias:** #

**Regulatory Driver:** CERCLA

**RIP Date:** 10/15/2027

**RC Date:** 10/15/2027

**RC Reason:** Not assigned

**SC Date:** 10/16/2027

**Program:** ENV Restoration, Army

**Subprogram:** IR

**NPL Status:** No

**Hazardous Ranking Score:** 0

**RRSE:** Not Evaluated

**MRSPP:** N/A

Phase	Start	End
PA:	1/15/2003	10/15/2010
SI:	--	--
RI/FS:	3/15/2015	10/15/2025
RD:	8/15/2025	8/15/2026
IRA:	--	--
RA(C):	8/15/2026	10/15/2027
RA(O):	--	--
LTM:	--	--

**Site Narrative:** Sievers-Sandberg US Army Reserve Center (USARC), consists of a 40-acre parcel located in Salem County, New Jersey. The USARC consists of the former Camp Pedricktown facility, including the former Administration Area Housing and Recreation Area, Military Vehicle Parking Area, and Warehousing Area that includes Buildings 434 and 464. The primary mission of the USARC was to support administrative, supply, training, and maintenance activities of the US Army Reserve. The USARC is zoned for industrial use. The USARC is currently vacant, and the Army is in the process of disposing the land to non-Army owners. Arsenic was detected at the Base Realignment and Closure Camp Pedricktown parcel, as summarized in the 2000 Environmental Investigation/Alternatives Analysis report. In total, 3,798 in-place cubic yards of impacted soil was excavated and transported offsite for disposal, but the excavation was not extended onto the Sievers-Sandberg USARC. Surface and subsurface soil samples were collected at the USARC north of Building 464 in March 2001. Arsenic was detected at concentrations exceeding the New Jersey Department of Environmental Protection (NJDEP) Residential Direct Contact Soil Cleanup Criteria of 20 milligrams per kilogram (mg/kg). An investigation was performed in 2006 to evaluate the extent of arsenic near Building 464. Arsenic was detected in one coal slag sample (24.6 mg/kg) at a concentration above the NJDEP Residential and Non-Residential Direct Contact Soil Cleanup Criteria of 20 mg/kg and NJDEP soil remediation standard of 19 mg/kg (based on naturally occurring background arsenic concentrations). In addition, arsenic in groundwater from one temporary well point (10.9 micrograms per liter (ug/L)) was reported above the NJ Groundwater Quality Standard of 3 ug/L. Based on the 2008 human health risk assessment (HHRA) performed for the entire 40-acre USARC parcel, there were no unacceptable risks to current and anticipated future land users; however, there were potentially unacceptable risks to hypothetical child residents due to arsenic in soil. A record of decision (ROD) was signed in September 2012 for the 40-acre parcel. The selected remedy for soil was land use controls (LUC) to (1) prevent dermal contact with, incidental ingestion of, and inhalation of dust from surface soils with concentrations of arsenic above risk-based concentrations to remain protective of a residential child or recreational property user; and (2) prevent dermal contact with, and incidental ingestion of, subsurface soils with concentrations of arsenic above risk-based

concentrations to remain protective of a residential child or recreational property user. Since the Army intends to dispose this property, 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 four 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 remedial action to prevent unacceptable risks to human health and the environment (OU2; the new CC Site 04). The USARC was divided into two separate OUs through an amendment to the original ROD for the 40-acre parcel. The ROD amendment for OU1 (CC Site 03), was finalized in 2016 and there is no further action required. The HHRA developed as part of the 2018 remedial investigation (RI) for Site 04 identified non carcinogenic hazards for resident child exposure to surface soil (0 to 2 feet) and carcinogenic risks for the adult and child resident exposure to surface soil. Cleanup Strategy - the arsenic impacted four acres of CC Site 04 (OU2) underwent an additional RI/Feasibility Study (FS) that was initiated in fiscal year 2016. Following this study and risk assessment, a new proposed plan (PP) and ROD were prepared with a remedial action objective to prevent residential receptors from coming into contact with arsenic-contaminated soil, identifying LUCs (Alternative 2) as the preferred remedy. The state regulatory agency non-concurred with the Army's preferred remedy, citing concerns that the remedy is potentially not protective. Based on these concerns, the Army has revised the PP and has selected soil excavation and offsite disposal (Alternative 3) as the preferred remedy. This remedy will result in unlimited use/unrestricted exposure with no further actions required.

## SITE SUMMARY

## SITE CLOSEOUT SUMMARY

CRL ID	Site Name	Site Closeout Date
1420A.1001	SITE 02_FENCELINE ASSESSMENT	6/30/1994
1420A.1002	CC Site 03_Lead and Arsenic in Soil and	5/31/2012

## COMMUNITY INVOLVEMENT

<b>Community Involvement Plan (Date Last Reviewed):</b>	3/1/2016
<b>Technical Review Committee Establishment Date:</b>	N/A
<b>Restoration Advisory Board (RAB) Establishment Date:</b>	N/A
<b>RAB Adjournment Date:</b>	N/A
<b>RAB Adjournment Reason:</b>	N/A
<b>Reasons for Not Establishing RAB:</b>	No sufficient, sustained community interest in a RAB has been expressed by the community
<b>RAB Date of Solicitation from Community:</b>	10/2020
<b>RAB Results of Solicitation:</b>	N/A
<b>Current Technical Assistance for Public Participation (TAPP):</b>	N/A
<b>TAPP Title:</b>	N/A
<b>Potential TAPP:</b>	N/A
<b>Administrative Record Location:</b>	Headquarters 99th Readiness Division, 5231 South Scott Plaza, Joint Base McGuire-Dix-Lakehurst (MDL), New Jersey
<b>Information Repository Location:</b>	Headquarters 99th Readiness Division, 5231 South Scott Plaza, Joint Base MDL, New Jersey

**FIVE-YEAR / PERIODIC REVIEW SUMMARY**

Status	Review Type	Start Date	End Date	Plans Narrative	Actions Narrative	Results Narrative
Future	FYR	5/4/2026	9/17/2027	TBD	TBD	TBD
Completed	FYR	5/4/2021	9/17/2022	Inspect LUCs to manage construction and prevent disturbance of CC Site 04 (1420A.1003).	LUCs to protect hypothetical resident child from exposure to arsenic impacted soils resulting in unacceptable risk.	LUC remedy is protective of human health and the environment.