DETROIT ARSENAL

Army Cleanup Program

Installation Action Plan Final

June 2024

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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: DETROIT ARSENAL

Installation City: WARREN

Installation County: MACOMB

Installation State: MI

Regulatory Participation - Federal: N/A

Regulatory Participation - State: Michigan Environment, Great Lakes, and Energy (EGLE)

ACRONYMS

Acronym	Definition
ANG	Air National Guard
AS	Air Sparge
CAP	Corrective Action Plan
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CMI(C)	Corrective Measures Implementation (Construction)
CMI(O)	Corrective Measures Implementation (Operations)
CMS	Corrective Measures Study
CRL	Cleanup Restoration & Liabilities
CS	Confirmation Sampling
DERP	Defense Environmental Restoration Program
DES	Design
EGLE	Michigan Department of Environment, Great Lakes, and Energy
ENV	Environmental
FS	Feasibility Study
IAP	Installation Action Plan
IM	Interim Measure
IMP(C)	Implementation (Construction)
IMP(O)	Implementation (Operations)
INV	Investigation
IR	Installation Restoration
IRA	Interim Remedial Action
ISC	Initial Site Characterization
LTM	Long-Term Management
LUST	Leaking Underground Storage Tank
MRSPP	Munitions Response Site Prioritization Protocol
NPL	National Priorities List
PA	Preliminary Assessment
PFAS	Per- and Polyfluoroalkyl Substances
PR	Periodic Review
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RAB	Restoration Advisory Board
RC	Response Complete
RCRA	Resource Conservation and Recovery Act

Acronym	Definition
RD	Remedial Design
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RIP	Remedy-In-Place
RRSE	Relative Risk Site Evaluation
SANG	Selfridge Air National Guard Base
SI	Site Inspection
SSD	Sub-Slab Depressurization
TAPP	Technical Assistance for Public Participation
USAF	US Air Force
UST	Underground Storage Tank
VOC	Volatile Organic Compound

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: 0/2

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

26155.1034_CC-002_Building 1533 Diesel UST Gasoline

Env Site ID: CC-002

Cleanup Site: Building 1533 Diesel UST Gasoline

Alias: USGS96-02

Regulatory Driver: RCRA-I

RIP Date: 6/15/2015

RC Date: 9/30/2054

RC Reason: Not assigned

SC Date: 9/30/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
ISC:	12/31/1992	12/31/1992
INV:	1/31/1993	1/31/2003
CAP:	10/31/2008	5/15/2015
DES:	5/15/2015	5/15/2015
IRA:	3/15/2003	1/15/2004
IMP(C):	5/15/2015	6/15/2015
IMP(O):	6/15/2015	9/30/2054
LTM:	- -	- -

Site Narrative: Site CC-002, 26155.1034 is located on Selfridge Air National Guard Base (SANG) Michigan which is owned by the US Air Force (USAF) and operated by the Air National Guard (ANG). The USAF issued a permit from 1989 to 1994 granting the Army use and occupancy of real property identified as facility 1533 Vehicle Maintenance Shop. The permit was silent with regards to the underground storage tanks (USTs) on site. In 1991 the Army as user of the site USTs determined the tanks were leaking and took action excavating the tanks. The site and building structure are currently occupied and used as an industrial/commercial vehicle maintenance shop. A Corrective Action Plan (CAP) was prepared in 2015 in accordance with State leaking underground storage tank (LUST) regulations. The selected remedial alternative is a combination of excavation and disposal air sparge (AS) and enhanced aerobic biodegradation bioventing/sub slab depressurization (SSD) and groundwater monitored natural attenuation following completion of all other remedial actions. This combination of alternatives will remove the soil contamination in vadose zone solid at the site outside the footprint of Building 1533; treat remaining contamination in vadose zone soils below the building through bioventing and SSD; effectively treat the remaining groundwater contamination contributing to elevated volatile organic compounds (VOC) and methane below the Building 1533 slab with AS and injections of oxygen-generating compounds; and mitigate the risk of vapor intrusion and the explosive hazard using a bioventing/SSD system. Implementation (construction) (IMP(C)) was complete and remedies in place following soil excavation and disposal groundwater treatment and installation of the AS and bioventing/SSD systems. Implementation (operation) (IMP(O)) continues with regulatory concurrence of operating the AS system and annual groundwater and soil gas monitoring until concentrations are below State regulatory levels. Cleanup/Exit Strategy - The exit strategy is to continue operations and maintenance annual monitoring and periodic reviews until site closure is obtained, no LUCs are required at this time.

26155.1037_DEARS-PFAS_PFAS

Env Site ID: DEARS-PFAS

Cleanup Site: PFAS

Alias: #

Regulatory Driver: CERCLA

RIP Date: 9/30/2027

RC Date: 9/30/2027

RC Reason: Not assigned

SC Date: 9/30/2027

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	5/21/2018	9/29/2018
SI:	9/30/2018	4/30/2022
RI/FS:	6/1/2021	9/30/2027
RD:	- -	- -
IRA:	- -	- -
RA(C):	- -	- -
RA(O):	- -	- -
LTM:	- -	- -

Site Narrative: Per direction from Deputy Chief of Staff G-9 site created to account for all per- and polyfluoroalkyl substances (PFAS) costs at the installation. Currently a preliminary assessment (PA)/site inspection (SI) is underway to identify all releases of PFAS to the environment. Preliminary data has identified the presence of PFAS in the groundwater soil and sanitary sewer discharge. Multiple soil samples exceed the risk screening levels for residential and commercial/industrial soils. Sanitary sewer discharge will be investigated with non-Defense Environmental Restoration Program (DERP) funds, this investigation was attached to and conducted alongside the PA/SI but was funded separately. Seven areas of potential impact exceeded the risk screening levels for residential tap water. Some groundwater detection exceeded the US Environmental Protection Agency (USEPA) Lifetime Health Advisory. However, the PA/SI has concluded there is no immediate threat to drinking water. This is based on the shallow perched nature of the groundwater; and there are no offsite drinking water receptors. Regardless, PA/SI has determined there is a need to go forward to the remedial investigation/feasibility study (RI/FS) phase. Cleanup/Exit Strategy - This site is currently in an RI/FS to determine the nature and extent of the contamination and evaluate the risks to human health and the environment as well as evaluate the potential for off-site migration.

SITE SUMMARY

SITE CLOSEOUT SUMMARY

CRL ID	Site Name	Site Closeout Date
26155.1032	STRG 201_REMEDIATE BLDG 201N STORAGE AREA	1/31/1997
26155.1036	CC-003_NE UT CORRIDOR BLDG 203/212	12/15/2017

COMMUNITY INVOLVEMENT

Community Involvement Plan (Date Last Reviewed):	1/15/2014
Technical Review Committee Establishment Date:	11/30/1995
Restoration Advisory Board (RAB) Establishment Date:	11/30/1995
RAB Adjournment Date:	4/30/2002
RAB Adjournment Reason:	All environmental restoration remedies are in place and are operating properly and successfully
Reasons for Not Establishing RAB:	N/A
RAB Date of Solicitation from Community:	N/A
RAB Results of Solicitation:	A RAB was established for the Detroit Arsenal BRAC site in 1995 and then adjourned in 2002. There has never been a RAB covering the non-BRAC actions for Detroit Arsenal. Site CC-002 (1533) is not located at the Detroit Arsenal. The site is located at SANG
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A
Administrative Record Location:	US Army Garrison Detroit Arsenal, Directorate of Public Works (Environmental), Building 205 / MS 117, 6501 East 11 Mile Rd., Detroit Arsenal, Michigan 48397
Information Repository Location:	Selfridge Air National Guard Base, 127th Wing CEV, 29570 Wilbur Wright Blvd

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Status	Review Type	Start Date	End Date	Plans Narrative	Actions Narrative	Results Narrative
Planned	PR	N/A	12/19/2024	N/A	N/A	N/A
Completed	PR	1/15/2019	12/19/2019	N/A	N/A	Is protective of human health and environment