

FY2015

1LT CHARLES L. WAPLES USARC
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 restoration manager, the US Army Environmental Command (USAEC), the 88th Regional Support Command (RSC), the Installation Management Command-Army Reserve Office (IMCOM-ARO), 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
AMSA	Area Maintenance Support Activity
AOC	Area of Concern
BTEX	Benzene, Toluene, Ethylbenzene, and Xylene
CC	Compliance-Related Cleanup
CR	Compliance Restoration
DD	Decision Document
DERP	Defense Environmental Restoration Program
DES	Design
ER,A	Environmental Restoration, Army
FRA	Final Remedial Action
FY	Fiscal Year
IAP	Installation Action Plan
IDEM	Indiana Department of Environmental Management
IMCOM-ARO	Installation Management Command-Army Reserve Office
IMP(C)	Implementation (Construction)
IMP(O)	Implementation (Operations)
IR	Installation Restoration
IRA	Interim Removal Action
IRP	Installation Restoration Program
K	thousand
LTM	Long-Term Management
MMRP	Military Munitions Response Program
MR	Munitions Response
N/A	Not Applicable
NFA	No Further Action
NPL	National Priorities List
ODUSD (I&E)	Office of the Under Secretary of Defense for Installations and Environment
OMS	Organizational Maintenance Shop
PAH	Polycyclic Aromatic Hydrocarbon
PMP	Project Management Plan
QCP	Quality Control Program
RA	Remedial Action
RA(C)	Remedial Action (Construction)
RAB	Restoration Advisory Board
RC	Response Complete
RIP	Remedy-in-Place
ROD	Record of Decision
RSC	Regional Support Command
SI	Site Investigation
TAPP	Technical Assistance for Public Participation
TPH	Total Petroleum Hydrocarbon
TRC	Technical Review Committee
UE	Unrestricted Exposure

Acronyms

USAEC US Army Environmental Command
USAR US Army Reserve
USARC US Army Reserve Command
UST Underground Storage Tank
UU Unrestricted Use

Acronym Translation Table

CERCLA

Preliminary Assessment(PA)

Remedial Investigation(RI)

Feasibility Study(FS)

Remedial Design(RD)

Remedial Action (Construction)(RA(C))

Remedial Action (Operation)(RA(O))

Long Term Management(LTM)

Interim Remedial Action(IRA)

RCRA Underground Storage Tank (UST) Site Phase Terms

= Initial Site Characterization(ISC)

= Investigation(INV)

= Corrective Action Plan(CAP)

= Design(DES)

= Implementation (Construction)(IMP(C))

= Implementation (Operations)(IMP(O))

= Long Term Management(LTM)

= Interim Remedial Action(IRA)

Installation Information

Installation Locale

Installation Size (Acreage): 3.28

City: Anderson

County: Madison

State: Indiana

Other Locale Information

1LT Charles L. Waples US Army Reserve Command (USARC) is located at 2828 Madison St, Anderson, IN 46016 and is home to the 88th RSC.

Installation Mission

The USARC and Area Maintenance Support Activity (AMSA) at 1LT Charles L. Waples USARC is currently occupied by the 88th RSC.

Lead Organization

US Army Reserve

Lead Executing Agencies for Installation

US Army Corps of Engineers, Omaha District Office

USAEC

88th RSC

Regulator Participation

Federal

US Environmental Protection Agency, Region V

State

Indiana Department of Environmental Management (IDEM)

National Priorities List (NPL) Status

1LT CHARLES L. WAPLES USARC is not on the NPL

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

Installation is in the process of determining interest in establishing a RAB.

Installation Program Summaries

CR

Primary Contaminants of Concern: Other (BTEX), Polycyclic Aromatic Hydrocarbons (PAH)

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 1LT Charles L. Waples USARC consists of two government-owned buildings located on 3.278 acres of land [administrative/training building and organizational maintenance shop (OMS)]. The USARC is located between residential neighborhoods to the northeast and a commercial/industrial district to the south and west. The facility is located on flat terrain with grass, trees and shrubs. In 1961, the facility was renovated with the expansion of the Reserve center and the construction of an OMS. The administration/training building consists of 11,525 square feet, and the OMS is 2,990 square feet. The Waples USARC is identified for subsequent lease termination and disposal. The existing lease is scheduled to end in 2054.

Installation Program Cleanup Progress

CR

Prior Year Progress: Additional site investigation was performed. Information on soils and groundwater under and adjacent to the existing building must be analyzed to determine if contaminated soils and underground storage tank remnant can be removed without demolishing the building. Information regarding potential vapor intrusion will also be gathered and evaluated during the SI.

Future Plan of Action: Complete additional investigation at the site. Contract and initiate the DES phase in FY16, consisting of the project management plan (PMP), quality control plan (QCP) and removal action work plan. The IMP(C) phase, to be completed in FY17, consists of removal actions and the removal action summary report.

1LT CHARLES L. WAPLES USARC
Army Defense Environmental Restoration Program
Compliance Restoration

CR Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 1/0

Installation Site Types with Future and/or Underway Phases

1 Underground Storage Tank
(CCIN001001)

Most Widespread Contaminants of Concern

Other (BTEX), Polycyclic Aromatic Hydrocarbons (PAH)

Media of Concern

Groundwater, Soil

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

Site ID	Site Name	Action	Remedy	FY
CCIN001001	UST	IRA	FREE PRODUCT RECOVERY	2013

Duration of CR

Date of CR Inception: 199701

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201708/201708

Date of CR completion including Long Term Management (LTM): 201708

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 Installations 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 MMRP have been migrated from Army Environmental Database - Compliance-related Cleanup (AEDB-CC) and given the naming convention of other Munitions Response (MR) sites. The newly eligible non-MR type sites are considered to be Installation Restoration (IR) sites; however, the newly eligible sites are being coded as CR in AEDB-R to distinguish them from the original IR sites and IR metrics. The 1LT Charles L. Waples installation is a former CC site now eligible for the DERP.

A 6,000-gallon capacity heating oil UST located adjacent to the administration building is the source for contaminated soils and groundwater.

During an underground storage tank (UST) removal project in 1997, it was determined that the UST could not be removed without jeopardizing the foundation of the building. Consequently, the top of the UST was removed, and the contents of the tank and the surrounding backfill were removed. Approximately 60 cubic yards of soil and 1,500 gallons of liquids were removed from the UST. Soil samples collected contained elevated levels of both diesel- and gasoline-range organics. Subsequently, upon notification of these findings, IDEM initiated Incident No. 1997-05-094.

In 1999, further testing showed that an area of contaminated soil, up to 18 feet deep, with elevated total petroleum hydrocarbons (TPH) concentrations were present near the former UST.

Groundwater samples taken near the UST basin indicated that groundwater was also contaminated.

A supplemental investigation was completed in 2004. The IDEM requested a remediation work plan, which was completed in 2005, and approved by the IDEM in 2006.

Six recovery wells were installed in October 2006. The wells are bailed on a monthly basis for product recovery. Quarterly groundwater monitoring was initiated in 2007 and 21 quarterly reports were submitted to IDEM through 2012. Quarterly groundwater monitoring was discontinued in 2012. Groundwater was analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) and PAHs.

To date, no major receptors have been identified. Potential human exposure pathways are generally limited to construction or excavation activities. There are no potable or non-potable wells or other features that present a human exposure pathway to groundwater. Based upon site observations and preliminary data, there are no significant exposure pathways for habitat areas or ecological receptors. Free-product recovery has occurred at four wells (MW-01, RW-01, RW-05, and RW-06) in varying amounts throughout the monitoring period.

Cleanup Exit Strategy

The property is being leased from the city of Anderson, and in order to facilitate a smooth transfer of the property back to the city when the lease expires, the Army has decided to pursue unrestricted use/unrestricted exposure (UU/UE) at the site. The Army awarded a contract for additional investigation in 2014 to gather more information on soils and groundwater conditions around the tank basin and under the adjacent building. The information will be evaluated to determine what actions are required to restore the site to UU/UE.

CR Previous Studies

	Title	Author	Date
2009	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC JAN-MAR 2009 (10th Quarterly Rpt.)	Geo Consultants, LLC	APR-2009
	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC APR-JUN 2009 (11th Quarterly Rpt.)	Geo Consultants, LLC	JUL-2009
	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC JUL-SEP 2009 (12th Quarterly Rpt.)	Geo Consultants, LLC	OCT-2009
2010	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC OCT-DEC 2009 (13th Quarterly Rpt.)	Geo Consultants, LLC	JAN-2010
	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC JAN-MAR 2010 (14th Quarterly Rpt.)	Geo Consultants, LLC	APR-2010
	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC APR-JUN 2010 (15th Quarterly Rpt.)	Geo Consultants, LLC	JUL-2010
	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC JUL-SEP 2010 (16th Quarterly Rpt.)	Geo Consultants, LLC	OCT-2010
2011	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC OCT-DEC 2010 (17th Quarterly Rpt.)	Geo Consultants, LLC	JAN-2011
	1LT Charles L. Waples USARC, Memorandum, Analysis of Historical Data and Justification for Closure	Geo Consultants, LLC	APR-2011
	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC JAN-MAR 2011 (18th Quarterly Rpt.)	Geo Consultants, LLC	APR-2011
	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC APR-JUN 2011 (19th Quarterly Rpt.)	Geo Consultants, LLC	AUG-2011
	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC JUL-SEP 2011 (20th Quarterly Rpt.)	Geo Consultants, LLC	SEP-2011
2012	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC OCT-DEC 2011 (21st Quarterly Rpt.)	Geo Consultants, LLC	JAN-2012
	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC JAN-MAR 2012 (22nd Quarterly Rpt.)	Geo Consultants, LLC	JUN-2012
	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC APR-JUN 2012 (23rd Quarterly Rpt.)	Geo Consultants, LLC	AUG-2012
	Quarterly Report for Remediation for Subsurface at 1LT Charles L. Waples USARC JUL-SEP 2012 (24th Quarterly Rpt.)	Geo Consultants, LLC	SEP-2012
2014	Project Management Plan - UST SI	ERT, Inc.	MAY-2014

1LT CHARLES L. WAPLES USARC

Compliance Restoration

Site Descriptions

STATUS

Regulatory Driver: RCRA
Contaminants of Concern: Other (BTEX), Polycyclic Aromatic Hydrocarbons (PAH)
Media of Concern: Groundwater, Soil

Phases	Start	End
ISC.....	199701.....	199712
INV.....	200303.....	201511
DES.....	201511.....	201608
IRA.....	200610.....	201303
IMP(C).....	201610.....	201708

RIP Date: N/A
RC Date: 201708

SITE DESCRIPTION

This site is located at 2828 Madison Street, Anderson, IN. The US government acquired the site in 1957 for use as a US Army Reserve (USAR) training and mobilization center. Facility records indicate that a combat engineering company occupied the facility from the 1970s to about 1992. This company consisted of approximately 130 to 150 reservists who maintained several Jeeps, cargo trucks, front-end loaders, semi-tractor trailers, D7 dozers, and other military equipment at the facility.

In 1992, this company was deactivated, and since that time, the facility has housed three other military companies that own little or no military equipment. This facility consists of a fenced rectangular area, approximately 375 feet wide (east to west), and 425 feet north to south. The facility contains two permanent buildings; the larger, northernmost building is the administration building, and the smaller structure, located in the southeast corner of the facility, is the OMS.

A 6,000-gallon capacity heating oil UST located adjacent to the administration building is the source for contaminated soils and groundwater.

During a UST removal project in 1997, it was determined that the UST could not be removed without jeopardizing the foundation of the building. Consequently, the top of the UST was removed, and the contents of the tank and the surrounding backfill were removed. Approximately 60 cubic yards of soil and 1,500 gallons of liquids were removed from the UST. Soil samples collected contained elevated levels of both diesel- and gasoline-range organics. Subsequently, upon notification of these findings, IDEM initiated Incident No.1997-05-094.

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Site ID: CCIN001001
Site Name: UST

The Army awarded a contract for additional investigation in 2014 to gather more information on soils and groundwater conditions around the tank basin and under the adjacent building. The information will be evaluated to determine what actions are required to restore the site to UU/UE. In order to achieve an unconditional site closure, it is assumed a soils removal action will be required.

CLEANUP/EXIT STRATEGY

The Army is initiating a new contract in fiscal year (FY)14 to perform additional investigation of the soils and groundwater around the UST basin. A closure plan and remedial alternatives will be developed based on-site data, and remediation of the site will be completed.

Site Closeout (No Further Action) Summary

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

CR Schedule

Date of CR Inception: 199701

Past Phase Completion Milestones

1998

ISC (CCIN001001 - UST)

2013

IRA (CCIN001001 - UST)

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
CCIN001001	UST	Soil Removal	20180830

Final RA(C) Completion Date: 201708

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of CR at Installation (including LTM phase): 201708

1LT CHARLES L. WAPLES USARC CR Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
CCIN001001	UST	INV						
		DES						
		IMP(C)						

Community Involvement

Technical Review Committee (TRC): None

Community Involvement Plan (Date Published): TBD

Restoration Advisory Board (RAB): No

Reason Not Established: Installation is in the process of determining interest in establishing a RAB.

Additional Community Involvement Information

The 88th RSC is currently determining interest in a RAB for this installation. A solicitation for RAB interest will be placed in local newspapers in FY15.

Administrative Record is located at

Anderson Public Library
111 E. 12th Street
Anderson, IN 46016-2701
(electronic AR maintained on 88th RSC share drive)

Information Repository is located at

Anderson Public Library
111 E. 12th Street
Anderson, IN 46016-2701
(electronic IR maintained on 88th RSC share drive)

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

TAPP Title: N/A

Potential TAPP: N/A

