

**FY2016**

**FORT RUCKER**

**Army Defense Environmental Restoration Program**

**Installation Action Plan**

Printed 03 October 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 restoration manager, the US Army Environmental Command (USAEC), Fort Rucker, 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

AI	Active and Inactive
ADEM	Alabama Department of Environmental Management
AEDB-CC	Army Environmental Database-Compliance-related Cleanup
AEDB-R	Army Environmental Database-Restoration
AOC	Area of Concern
ATG	Anti-Tank Grenade
ATR	Anti-Tank Rocket
BRAC	Base Realignment and Closure
CAP	Corrective Action Plan
CC	Compliance-related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liabilities Act
CMI	Corrective Measures Implementation
CMI(C)	Corrective Measures Implementation (Construction)
CMI(O)	Corrective Measures Implementation (Operation)
CMIP	Corrective Measures Implementation Plan
CMS	Corrective Measures Study
CR	Compliance Restoration
CS	Confirmation Sampling
CTC	Cost-to-Complete
CTT	Closed, Transferred or Transferring
DD	Decision Document
DERP	Defense Environmental Restoration Program
DES	Design
DMM	Discarded Military Munitions
DoD	Department of Defense
ER,A	Environmental Restoration, Army
FRA	Final Remedial Action
FS	Feasibility Study
ft	feet
FTRU	Fort Rucker (AEDB-R site designation)
FY	Fiscal Year
HRR	Historic Records Review
HSWA	Hazardous Solid Waste Amendment
IAP	Installation Action Plan
IM	Interim Measures
IMCOM	Installation Management Command
IR	Installation Restoration
IRA	Interim Remedial Action
IRP	Installation Restoration Program
JP-4	Jet Propellant 4
K	thousand
LF	Landfill
LTM	Long-term Management
LUC	Land Use Control
MC	Munitions Constituent

## Acronyms

MCL	Maximum Contaminant Level
MEC	Munitions and Explosives of Concern
MMRP	Military Munitions Response Program
MNA	Monitored Natural Attenuation
MOGAS	Motor Gasoline
MPPEH	Munitions Presenting a Potential Explosive Hazard
MR	Munitions Response
MRS	Munitions Response Site
MRSPP	Munitions Response Site Prioritization Protocol
N/A	Not Applicable
NFA	No Further Action
NPL	National Priorities List
O&M	Operations and Maintenance
ODUSD (I&E)	Office of Deputy Under Secretary of Defense for Installations and Environment
PA	Preliminary Assessment
PBA	Performance-Based Acquisition
PCE	Tetrachloroethylene
POL	Petroleum, Oil, and Lubricant
POP	Period of Performance
PSV	Preliminary Screening Value
RA	Remedial Action
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operation)
RAB	Restoration Advisory Board
RAC	Risk Assessment Code
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RIP	Remedy-in-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
RSE	Remedial Systems Evaluation
RSL	Residential Screening Level
S&A	Supervision and Administration
SI	Site Inspection
SVOC	Semi-Volatile Organic Compound
SWMU	Solid Waste Management Unit
TAPP	Technical Assistance for Public Participation
TCE	Trichloroethylene
TCRA	Time Critical Removal Action
TRC	Technical Review Committee
ug/L	micrograms per liter

## Acronyms

US	United States
USAACE	US Army Aviation Center of Excellence
USAAVNC	US Army Aviation Center
USACE	US Army Corps of Engineers
USAEC	US Army Environmental Command
USEPA	US Environmental Protection Agency
UST	Underground Storage Tank
UXO	Unexploded Ordnance
VOC	Volatile Organic Compound
XRF	X-ray Fluorescence

## Acronym Translation Table

### CERCLA

Preliminary Assessment(PA)  
Site Inspection(SI)  
Remedial Investigation/Feasibility Study(RI/FS)  
Remedial Design(RD)  
Remedial Action (Construction)(RA(C))  
Remedial Action (Operation)(RA(O))  
Long Term Management(LTM)  
Interim Remedial Action(IRA)

### RCRA

= RCRA Facility Assessment(RFA)  
= Confirmation Sampling(CS)  
= RCRA Facility Investigation/Corrective Measures Study(RFI/CMS)  
= Design(DES)  
= Corrective Measures Implementation (Construction)(CMI(C))  
= Corrective Measures Implementation (Operation)(CMI(O))  
= Long Term Management(LTM)  
= Interim Measure(IM)



## Site Alias List

### AEDB-R Site ID to Alias List

<b>AEDB-R #</b>	<b>Alias</b>
AOC-S	AOC-S
CC AOC-A1	SWMU 97
FTRU-001-R-01	AOC-W
FTRU-003-R-01	AOC-X
FTRU-008	SWMU 10
FTRU-012	SWMU 4
FTRU-040	SWMU 14
FTRU-051	SWMU 15
FTRU-171	SWMU 2D
FTRU-172	FTRU-172
FTRU-174	FTRU-174
FTRU-175	FTRU-175

# Installation Information

## Installation Locale

**Installation Size (Acreage):** 62430

**City:** Daleville

**County:** Dale and Coffee Counties

**State:** Alabama

## Other Locale Information

Fort Rucker is located in southeast Alabama approximately 20 miles northwest of the city of Dothan. It consists of 62,430 acres: 57,885 acres at the main installation and 4,545 acres of satellite airfields and leases and easements.

## Installation Mission

Since 1973, when Fort Rucker became the center for all US Army aviation flight training, its mission has been to maintain and operate facilities and provide services and material to support the helicopter pilot training for the US Army. Fort Rucker is the largest helicopter training installation in the world. As the US Army Aviation Center of Excellence (USAACE) and the home of the Aviation Branch, Fort Rucker is charged with producing aviation Soldiers for the world's premier aviation force.

In addition to this role as the USAACE, Fort Rucker houses several tenant activities and directorates. It is the home for the US Army Combat Readiness Center, the Warrant Officer Career College, Air Traffic Services Command, the Army Aviation Flight Test Directorate, the Army School of Aviation Medicine and Aeromedical Research Laboratory.

## Lead Organization

IMCOM

## Lead Executing Agencies for Installation

US Army Corps of Engineers (USACE)- Mobile District

## Regulator Participation

<b>Federal</b>	US Environmental Protection Agency (USEPA), Region 4, Resource Conservation and Recovery Act (RCRA) and Federal Facilities Branch, Waste Management Division.
<b>State</b>	Alabama Department of Environmental Management (ADEM)

## National Priorities List (NPL) Status

FORT RUCKER is not on the NPL

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

The community has expressed no sufficient, sustained interest in a RAB.

## Installation Program Summaries

### IRP

**Primary Contaminants of Concern:** Metals, Other (construction debris and household refuse), Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

**Affected Media of Concern:** Groundwater, Soil, Surface Water

### MMRP

**Primary Contaminants of Concern:** Munitions and explosives of concern (MEC)

**Affected Media of Concern:** Groundwater, Soil

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## Installation Information

CR

**Primary Contaminants of Concern:** Volatiles (VOC)

**Affected Media of Concern:** Soil

# 5-Year / Periodic Review Summary

## 5-Year / Periodic Review Summary

Status	Start Date	End Date	End FY
Complete	200802	201006	2010
Complete	201405	201601	2016

## Last Completed 5-Year / Periodic Review Details

Associated ROD/DD Name	Sites
CMIP Revised SWMU 2D, 04/2008, FTRU-171	FTRU-171
CMIP for SWMU 15, Dated 5/2007, FTRU-051	FTRU-051
CMIP for SWMU 4, 5/15/2007, FTRU-012	FTRU-012
CMIP for SWMUs 10/15, FTRU-008	FTRU-008
CMS and CMIP for AOC-S	AOC-S
Phase II RFI, Volume I, 1995	FTRU-002, FTRU-004, FTRU-006, FTRU-030, FTRU-075, FTRU-079, FTRU-080, FTRU-110, FTRU-116, FTRU-117, FTRU-119, FTRU-120, FTRU-180, FTRU-181

**Results** A protectiveness determination of the corrective action at AOC-S cannot be made at this time. More information is needed.

The corrective actions for FTRU-171, FTRU-008, FTRU-051, FTRU-012 and FTRU-040 protects human health and the environment.

**Actions** A Land Use Control Implementation Plan should be prepared and the Fort Rucker Real Property Master should be updated.

Conduct a vapor intrusion study in the vicinity of occupied buildings above the PCE plume at AOC-S.

**Plans** A Vapor Intrusion Study for AOC-S is now underway.

## Recommendations and Implementation Plans:

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## Land Use Control (LUC) Summary

**LUC Title:** LUC for FTRU-051

**Site(s):** FTRU-051

**ROD/DD Title:** CMIP for SWMU 15, Dated 5/2007,FTRU-051

**Location of LUC**

SWMU 15 located on Dilly Branch Road.

**Land Use Restriction:** Media specific restriction - prohibit use of groundwater for consumption or domestic purposes, Media specific restriction - restrict drinking water well installation

**Types of Engineering Controls:** Fences

**Types of Institutional Controls:** Notations in Master Plan

**Date in Place:** 199707

**Modification Date:** N/A

**Date Terminated:** N/A

**Inspecting Organization:** State

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

**Documentation Date:** 201312

**LUC Enforcement:** Annual Inspections

**Contaminants:** VOC

**Additional Information**

N/A

**LUC Title:** SWMU 2D and AOC-P LUC

**Site(s):** FTRU-171

**ROD/DD Title:** CMIP Revised SWMU 2D, 04/2008, FTRU-171

**Location of LUC**

Located on the corner of Hatch and Engineer Roads. This LUC also covers AOC-P which is adjacent to SWMU 2D.

**Land Use Restriction:** Landfill restriction - Prohibit activities that would impact the LF cap (or cover system) and drainage system, Landfill restriction - Prohibit excavation on LF cap or cover system, Landfill restriction - Restrict construction of buildings that may interfere with LF cap or cover system, Restrict land use - No daycare/hospital/school use, Restrict land use - No residential use

**Types of Engineering Controls:** Fences, Signs

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

**Date in Place:** 200709

**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, VOC

**Additional Information**

N/A

## Land Use Control (LUC) Summary

**LUC Title:** SWMU 3 LUC

**Site(s):** FTRU-002

**ROD/DD Title:** Phase II RFI, Volume I, 1995

**Location of LUC**

LUC is located on Landfill north of AERO Medical Research Building.

**Land Use Restriction:** Landfill restriction - Prohibit activities that would impact the LF cap (or cover system) and drainage system, Landfill restriction - Restrict construction of buildings that may interfere with LF cap or cover system, Restrict land use - No residential use

**Types of Engineering Controls:** Signs

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

**Date in Place:** 200109

**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:** VOC

**Additional Information**

N/A

# Cleanup Program Summary

## Installation Historic Activity

On May 1, 1942, Fort Rucker was activated as the Ozark Triangular Division Camp, in response to the US military escalation following Pearl Harbor. In June 1943, the facility was renamed Camp Rucker, in honor of General Edmund Winchester Rucker.

Camp Rucker served as an infantry training ground and housed artillery, tank, anti-aircraft, medical, and quartermaster troops until 1946. In May 1945 following Victory in Europe Day, the camp became an Infantry Replacement Training Center and later an Infantry Advanced Replacement Training Center.

The successful use of helicopters in Korea caused a pressing need for testing and training in the maintenance and operation of rotary-wing aircraft and the Army established an aviation center and school to meet that need. The Army Aviation School of Fort Sill, Oklahoma, was relocated to Camp Rucker. In March 1955, Camp Rucker was officially designated as the US Army Aviation Center (USAAVNC). In October of the same year, it became a permanent US military fort, and, consequently, was renamed Fort Rucker.

In 1973, Fort Rucker became the center for all US Army aviation flight training. Since then, its mission has been to maintain and operate facilities and provide services and material to support the helicopter pilot training for the Army.

In addition to its role as the USAAVNC, Fort Rucker houses several tenant activities and directorates. It is the home of the Army Safety Center, the US Army Aviation Development Test Activity, the Aeromedical Center and the Aeromedical Research Laboratory.

## Installation Program Cleanup Progress

### IRP

**Prior Year Progress:** CMI(O) was ongoing for FTRU-171, FTRU-008, FTRU-051, FTRU-012 and AOC-S and long-term management (LTM) for FTRU-002, FTRU-040 and AOC-P. A CMI report for FTRU-040 was submitted to ADEM in January 2014 requesting NFA. ADEM responded and required further sampling. A performance-based acquisition (PBA) to perform an RFI at FTRU-012 was awarded in September 2013. The RFI addendum report for FTRU-012 was submitted to ADEM in Feb. 2015. ADEM responded and required further delineation of the site.

**Future Plan of Action:** Continue corrective measures implementation (operation) (CMI(O)) and LTM activities through fiscal year (FY)16 for FTRU-171, FTRU-008, FTRU-051, FTRU-012, FTRU-002, FTRU-040, AOC-S and AOC-P. Achieve no further action (NFA) for FTRU-040.

### MMRP

**Prior Year Progress:** A PBA was awarded in 2009 to perform an RFI and achieve record of decision (ROD)/decision document (DD) for FTRU-001-R-01 and FTRU-003-R-01 by FY11. Due to regulatory review times, the ROD/DD date was modified to FY14. RFI work plan was approved by ADEM in January FY12. The final RFI/corrective measures study (CMS) report was submitted to ADEM in June 2014 and again in September 2014 as final revision 1. ADEM does not concur with the plan and the PBA for this effort has expired.

**Future Plan of Action:** ADEM approval of the Resource Conservation and Recovery Act (RCRA) facility investigation (RFI)/CMS report will determine activities for the next two years.

### CR

**Prior Year Progress:** A PBA was awarded in August 2013 to conduct a RFI for AOC-A1. The RFI is underway. All field activities have concluded and draft report is expected in February 2015.

**Future Plan of Action:** Completion of the RFI for AOC-A1.

**FORT RUCKER**  
**Army Defense Environmental Restoration Program**  
**Installation Restoration Program**



# IRP Summary

**Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count:** 108/99

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

- 1 Contaminated Ground Water  
(AOC-S)
- 1 Disposal Pit/Dry Well  
(FTRU-040)
- 1 Fire/Crash Training Area  
(FTRU-051)
- 3 Landfill  
(FTRU-008, FTRU-012, FTRU-171)
- 3 Underground Storage Tank  
(FTRU-172, FTRU-174, FTRU-175)

## Most Widespread Contaminants of Concern

Metals, Other (construction debris and household refuse), Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

## Media of Concern

Groundwater, Soil, Surface Water

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

Site ID	Site Name	Action	Remedy	FY
FTRU-182	BLDG 810, REFUELING POINT	FRA	INCINERATION	1996
FTRU-183	CONTAMINATED SOIL, TANK HILL	FRA	INCINERATION	1997
FTRU-010	SI HATCH ROAD NEAR LAKE, SWMU 2C	FRA	WASTE REMOVAL - SOILS	1998
FTRU-041	STORAGE WASTE POL-10K GAL RR TANK, SWMU27	FRA	WASTE REMOVAL - SOILS	1998
FTRU-042	STRG WAST POL(10K GAL RR TANK), SWMU 28	FRA	WASTE REMOVAL - SOILS	1998
FTRU-045	STORAGE WASTE POL(30K GAL AST), SWMU 31	FRA	WASTE REMOVAL - SOILS	1998
FTRU-051	FIREFIGHTING TNG AREA, SWMU 15	FRA	NATURAL ATTENUATION	1998
FTRU-051	FIREFIGHTING TNG AREA, SWMU 15	FRA	THERMAL DESORPTION	1998
FTRU-052	WST FUEL STR SW DILLY BR RD&AVE F SWMU63	FRA	WASTE REMOVAL - SOILS	1998
FTRU-080	WASHRACK W/O W SEP(LOWE AHP), SWMU 71	FRA	WASTE REMOVAL - SOILS	1998
FTRU-082	WASHRACK W/ O W SEP(BLDG 1412), SWMU 73	FRA	WASTE REMOVAL - SOILS	1998
FTRU-101	SUMP DRAINAGE SYSTEM-POL SHOP SWMU 70	FRA	WASTE REMOVAL - SOILS	1998
FTRU-109	MATERIAL STORAGE (BLDG 6015), SWMU K	FRA	WASTE REMOVAL - SOILS	1998
FTRU-115	NEW PCB MTR STORE(ENGR & DILLY BR)SWMU J	FRA	WASTE REMOVAL - SOILS	1998
FTRU-158	WASTE OIL(55 GAL DRUMS)(BLD 4004)SWMU 64	FRA	WASTE REMOVAL - SOILS	1998
FTRU-162	SPENT BATTERY STRG, BLDG 6015, SWMU 41B	FRA	WASTE REMOVAL - SOILS	1998
FTRU-165	WASTE OIL(AST) (BLDG 6015), SWMU 41A	FRA	WASTE REMOVAL - SOILS	1998

## IRP Summary

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

Site ID	Site Name	Action	Remedy	FY
FTRU-179	PRODUCT STORAGE AREA, SWMU D	FRA	WASTE REMOVAL - SOILS	1998
FTRU-040	WASTE POL DISPOSAL, SWMU 14	IRA	BIOVENTING	1999
FTRU-002	LF NORTH OF AEROMED RES BLD SWMU 3	IRA	OTHER	2001
FTRU-012	LANDFILL OZARK CITY LEASEE, SWMU 4	FRA	NATURAL ATTENUATION	2001
FTRU-073	HERBICIDE STORAGE (BLDG 1448), SWMU 50	IRA	WASTE REMOVAL - SOILS	2001
FTRU-070	PESTICIDE STOR/HANDLE(BLDG 1476)SWMU 49	IRA	WASTE REMOVAL - SOILS	2002
FTRU-171	CLOSED SANITARY LANDFILL, SWMU 2D	FRA	FENCE OR OTHER SITE ACCESS CONTROL MEASURES	2007
FTRU-171	CLOSED SANITARY LANDFILL, SWMU 2D	FRA	CAPPING	2007
FTRU-171	CLOSED SANITARY LANDFILL, SWMU 2D	FRA	NATURAL ATTENUATION	2007
AOC-S	PCE in GW near SWMU 8	FRA	NATURAL ATTENUATION	2014
AOC-S	PCE in GW near SWMU 8	FRA	CHEMICAL REDUCTION/OXIDATION	2014

### Duration of IRP

**Date of IRP Inception:** 198202

**Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC):** 201706/204510

**Date of IRP completion including Long Term Management (LTM):** 204610

# IRP Contamination Assessment

## Contamination Assessment Overview

In 1988 the Fort Rucker Installation Restoration Program (IRP) identified 111 sites. Forty-four of these sites required further investigation, which was initiated in 1990. Site investigations, recommendations and studies of these sites produced initiatives for NFA, removal, and corrective measures study (CMS). The following is a summary of the IRP initiatives:

- All of the sites at Fort Rucker scored low because the primary contaminant was petroleum hydrocarbons.
- None of the sites have extensive groundwater contamination.
- 108 sites have been evaluated by the state regulators and granted NFA status. These are listed on Table III.2 of the permit.
- Five sites (SWMUs 3, 4, 10 14, and 15) require LTM.
- Removal was completed at SWMU 8 and a cap was installed at SWMU 2D.

There is a reasonable expectation that the IRP at Fort Rucker will declare a large percentage of its sites RIP in the near future.

## Cleanup Exit Strategy

Remaining cleanup requirements are being addressed under PBAs that were awarded in FY09 and FY11; RIP is expected at all sites. Remaining remedial operations and LTM are expected to be completed by FY20 for a majority of sites and FY40 for others.

## IRP Previous Studies

Year	Title	Author	Date
1979	Tech Memo: Groundwater Monitoring, Bldgs 1172, 3425, 3481, 5110	USACE- Alaska District	JAN-1979
1982	Installation Assessment of Fort Rucker, Alabama, Report No. 305	Environmental Science and Engineering, Inc.	JAN-1982
1984	Evaluation of Washrack Leachate, Fort Rucker, Alabama, Hazardous Waste Study No. 37-26-0458-85	US Army Environmental Hygiene Agency	JAN-1984
	Draft Final Report: Evaluation of SWMUs at Fort Rucker, Report No. 37-26-1648-89	US Army Environmental Hygiene Agency	JAN-1984
1987	Geohydrogeologic Study at Fort Rucker, TAC-Runkle Landfill and Dilly Branch Landfills	US Army Environmental Hygiene Agency	JAN-1987
1988	Installation Restoration Program Plan for Fort Rucker	USACE, Toxic and Hazardous Materials Agency	JAN-1988
	RCRA Facility Assessment Report for Fort Rucker	USEPA	JAN-1988
1991	Final work plan, Volume 1, Project Management Plan	Metcalf & Eddy, Inc.	MAR-1991
1992	Preliminary Site Inspection for Fort Rucker Military Reservation, Site Inspection Report No. 91030	USACE, Toxic and Hazardous Materials Agency	JAN-1992
1993	Volume 1, Final Project Management Plan, Fort Rucker Corrective Measures Study	Metcalf & Eddy, Inc.	JAN-1993
	Volume 2, Final Sampling and Analysis Plan, Fort Rucker Corrective Measures Study	Metcalf & Eddy, Inc.	JAN-1993
1994	Final RCRA Facility Report	US Army Environmental Center	SEP-1994
	Final Corrective Measures Remedial Design Workplan for the Removal of Contaminated Soils at SWMUs 2c, 27, 28, 31, 41a, 41b, 48, 63, 64, 70, 71, D, J and K	Metcalf & Eddy, Inc.	DEC-1994
1995	Phase II RCRA Facility Investigation Final Report, Fort Rucker Alabama	Metcalf & Eddy, Inc.	NOV-1995
1996	Statement of Basis, No Further Action Sites, Fort Rucker Alabama,	Metcalf & Eddy, Inc.	NOV-1996
1997	Final Corrective Measures Study, Fort Rucker, Alabama	Metcalf & Eddy, Inc.	JUL-1997
	Well Closure Plan - Draft	Metcalf & Eddy Inc.	JUL-1997
1998	Final Report- Interim Soil Removal at SWMU 15, Fire Fighting Training Area and Removal of Contaminated Soils at CAMU 2-7, Fort Rucker, AL	USACE	AUG-1998

## IRP Previous Studies

Year	Title	Author	Date
2000	Final Groundwater Assessment Report for Solid Waste Management Unit 2D, Closed Sanitary Landfill	Metcalf & Eddy, Inc.	MAY-2000
2002	Final Groundwater Assessment Addendum Report for Solid Waste Management Unit 2D, Closed Sanitary Landfill	Metcalf & Eddy, Inc.	FEB-2002
2003	Summary of RCRA-Related Program Activities/Investigation for SWMU 6 - Closed Construction Landfill	Montgomery Watson Harza	APR-2003
	Summary of RCRA-Related Program Activities/Investigations for SWMU 10 Closed Landfill	MWH Americas, Inc.	APR-2003
	Summary of RCRA-Related Program Activities/Investigations for SWMU 14 Closed Waste Pol Pit	MWH Americas, Inc.	APR-2003
	Summary of RCRA-Related Program Activities/Investigations for SWMU 15 Former Fire Training Area, Vol. 1	MWH Americas, Inc.	APR-2003
	Summary of RCRA-Related Program Activities/Investigations for SWMU 15 Former Fire Training Area, Vol. 2, Appendix F	MWH Americas, Inc.	APR-2003
	Soil Removal and Sampling Report - SWMU 70 and 73	Bhate	APR-2003
	Summary of RCRA-Related Program Activities/Investigations for SWMU 4, Closed City of Ozark Landfill	MWH Americas, Inc.	APR-2003
	Summary of RCRA-Related Program Activities/Investigations for SWMU 49, Former Pesticide Storage	MWH Americas, Inc.	MAY-2003
	Summary of RCRA-Related Program Activities/Investigations for SWMU 50, Former Herbicide Storage	MWH Americas, Inc.	MAY-2003
	Revised Semiannual Report for Natural Attenuation Monitoring	Montgomery Watson Harza	JUL-2003
	Final Post-Wide HHRA for Arsenic in Soil Final CMS, M&E 7/97	Montgomery Watson Harza	SEP-2003
	SWMU 2 Draft RFI Report	Montgomery Watson Harza	NOV-2003
	2004	SWMU 49 and 50 ADEM Letter of Notice of Concurrence for the Summary of RCRA-Related Program Activities/Investigations (NFA)	ADEM
2005	Misc Sites ADEM Letter of Review and Comments of Summary of Investigation Activities and Statement of Basis for Closure of Wells	ADEM	MAR-2005
	2005 Project Management Plan	CCI/ARCADIS	MAY-2005
	SWMU 2D ADEM Letter of Review and Comments of Draft CMIP	ADEM	JUN-2005
	CCI Response to ADEM Comments - SWMU2D CMIP	CCI	JUN-2005
	SWMU 6 ADEM Letter of Review and Comments Groundwater Sampling	ADEM	JUL-2005

## IRP Previous Studies

2005	Title	Author	Date
	Misc Sites ADEM Letter of Review and Comments of Summary of Investigation Activities and Statement of Basis for Closure of Wells	ADEM	JUL-2005
	SWMU 2D ADEM Letter of Review and Comments of CMIP	ADEM	JUL-2005
	SWMU 8 ADEM Letter of Review and Comments of Sampling Plan Technical Memorandum	ADEM	AUG-2005
	Final SWMU 8 Sampling Plan Technical Memorandum	CCI/ARCADIS	SEP-2005
	SWMU 2D Final CMIP	CCI/ARCADIS	SEP-2005
	SWMU 8 ADEM Letter of Review and Comments of Final Sampling Plan	ADEM	OCT-2005
	SWMU 2D ADEM Letter of Review and Comments of Final Corrective Measures Implementation Plan	ADEM	OCT-2005
	Final Construction Best Management Practices Plan, DeLoney Road Borrow Site for SWMU 2D	CCI/ARCADIS	NOV-2005
	SWMU 6 Draft Groundwater Sampling Results	CCI/ARCADIS	DEC-2005
2006			
	SWMU 6 ADEM Letter of Review and Concurrence of Draft CMIP (NFA)	ADEM	MAR-2006
	SWMU 14 ADEM Letter of Review and Comments of CMIP	ADEM	APR-2006
	2006 Field Sampling Plan	CCI/ARCADIS	JUN-2006
	2006 Quality Assurance Project Plan	CCI/ARCADIS	JUN-2006
	2006 Project Management Plan	CCI/ARCADIS	JUL-2006
	SWMU 8 ADEM Letter of Review and Comments of CMIP	ADEM	SEP-2006
	SWMU 8 Sample Plan Addendum	CCI/ARCADIS	NOV-2006
	SWMU 8 ADEM Letter of Review and Concurrence of Sampling Plan	ADEM	DEC-2006
2007			
	SWMU 6 ADEM Letter of Review and Comments of Well Abandonment Report	ADEM	JAN-2007
	Misc Sites ADEM Letter of Review and Comments CMIP	ADEM	JAN-2007
	SWMU 4 ADEM Letter of Review and Comments of CMIP	ADEM	JAN-2007
	Final Fort Rucker SWMU 6 Well Abandonment Report	CCI/ARCADIS	FEB-2007
	Final SWMU 6 CMIP	CCI/ARCADIS	FEB-2007
	Final SWMU 8 CMIP	CCI/ARCADIS	FEB-2007
	Final Misc Sites CMIP	CCI/ARCADIS	FEB-2007
	SWMU 2D ADEM Letter of Review and Concurrence of CMIP Addendum	ADEM	FEB-2007
	SWMU 2D ADEM Letter of Review and Concurrence of CMIP Addendum	ADEM	FEB-2007
	SWMU 6 ADEM Letter of Review and Concurrence of Final CMIP (Approval)	ADEM	MAR-2007

## IRP Previous Studies

	<b>Title</b>	<b>Author</b>	<b>Date</b>
<b>2007</b>	SWMU 8 ADEM Letter of Review and Concurrence of Final CMIP (NFA)	ADEM	MAR-2007
	Misc Sites ADEM Letter of Review and Concurrence of Final CMIP	ADEM	MAR-2007
	SWMU 2D ADEM Letter of Review and Concurrence of Corrective Measures Implementation Plan Addendum	ADEM	APR-2007
	SWMU 10-15 Groundwater Final CMIP	CCI/ARCADIS	MAY-2007
	SWMU 10-15 Groundwater Final CMIP	CCI/ARCADIS	MAY-2007
	Final CMIP for SWMU 4	CCI/ARCADIS	MAY-2007
	SWMU 2D Corrective Measures Implementation Plan Addendum	CCI/ARCADIS	JUN-2007
	SWMU 14 Corrective Measures Implementation Plan	CCI/ARCADIS	JUL-2007
	SWMU 4 ADEM Letter of Review and Concurrence of CMIP	ADEM	AUG-2007
	SWMU 10-15 ADEM Letter of Review and Concurrence for CMIP	ADEM	AUG-2007
	SWMU 10-15 ADEM Letter of Review and Concurrence for CMIP	ADEM	AUG-2007
<b>2008</b>	SWMU 2D Revised Corrective Measures Implementation Plan	CCI/ARCADIS	APR-2008
	SWMU 2D ADEM Letter of Review and Comments of Revised Corrective Measures Implementation Plan Addendum	ADEM	JUN-2008
	SWMU 2D ADEM Letter of Review and Comments of Revised Corrective Measures Implementation Plan Addendum	ADEM	JUN-2008
<b>2009</b>	Project Management Plan, Environmental Remediation Services	CH2MHILL	OCT-2009
<b>2012</b>	RCRA Facility Investigation Report for AOC-S, Final Revision 2, January 2012	CH2MHILL	JAN-2012
	AOC-S, ADEM Letter for Approval of RFI for AOC-S, Dated February 2012	ADEM	FEB-2012
<b>2013</b>	Corrective Measures Study and Corrective Measures Implementation Plan for AOC-S	CH2MHILL	FEB-2013
<b>2014</b>	Corrective Measures Implementation Report for AOC-S	CH2MHILL	JAN-2014

# **FORT RUCKER**

## **Installation Restoration Program**

### **Site Descriptions**



**Site ID: AOC-S**  
**Site Name: PCE in GW near SWMU 8**  
**Alias: AOC-S**

**STATUS**

**Regulatory Driver:** RCRA  
**RRSE:** LOW  
 Contaminants of Concern: Volatiles (VOC)  
 Media of Concern: Groundwater

Phases	Start	End
RFA.....	200503.....	200608
RFI/CMS.....	200612.....	201210
CMI(C).....	201009.....	201310
CMI(O).....	201301.....	204509
<b>RIP Date:</b>	201310	
<b>RC Date:</b>	204509	

**SITE DESCRIPTION**

A RFI for AOC-S (which is near and upgradient of solid waste management unit (SWMU) 8) was completed in 2012. The RFI showed that groundwater within the investigation area was impacted with PCE at concentrations exceeding the ADEM maximum contaminant level (MCL) of 5 micrograms per liter (µg/L). The apparent source of the PCE in groundwater was a washrack that was operated from the 1950s to the late-1980s. PCE was not detected in soil in the vicinity of the washrack, indicating that the source may have been removed during removal of the washrack.

As documented in the RFI, the PCE plume dimensions are approximately 2,900 feet by 900 feet, and it covers approximately 60 acres. The plume has migrated southward, following groundwater flow past the Fort Rucker boundary. PCE concentrations range from 120 µg/L at approximately 500 feet downgradient of the apparent source to 17 µg/L at the installation boundary. The maximum PCE concentration off-post is 8 µg/L, which exceeds the MCL. A CMS/corrective measure implementation plan (CMIP) for AOC-S, dated July 2013 has been submitted to and approved by state regulators. The CMS/CMIP recommended installation of PCE treatment technology (an oxidizing treatment zone) followed by monitored natural attenuation (MNA) and a risk assessment. The PCE treatment technology was installed in October 2013. Groundwater monitoring under the CMI(O) phase was initiated in December 2013. The CMI report was submitted to ADEM for regulatory review in January 2014 which included an environmental use restriction document as required by ADEM.

In September 2014 a contract was awarded to perform corrective measures effectiveness and long-term monitoring at AOC-S in 2015. Period of performance (POP) for the contract is Sept. 26, 2014 to Sept. 26, 2016. A new PBA was awarded in 2015.

The costs for this site will be captured under FTRU-171.

**CLEANUP/EXIT STRATEGY**

Site AOC-S was included in a PBA awarded in FY09. The PBA includes completion of RFI/CMS and implementation of the remedy. The RFI report was complete and has been approved by ADEM. A CMIP has been submitted to ADEM and was approved. MNA as well as in situ chemical oxidation via injections is the proposed remedy. Specifically a 250-foot row of potassium permanganate candles injected to create an oxidizing treatment zone to limit PCE migration. These candles were installed in October 2013. A CMI report was submitted to ADEM in January 2014. Post-PBA CMI(O) will continue through FY45.

**Site ID: FTRU-008**

**Site Name: LF N OF DILLY BR RD/E OF TEST STD,SWMU10**

**Alias: SWMU 10**

## STATUS

**Regulatory Driver:** RCRA

**RRSE:** MEDIUM

Contaminants of Concern: Volatiles (VOC)

Media of Concern: Groundwater, Surface Water

Phases	Start	End
RFA.....	198202.....	198611
CS.....	199010.....	199602
RFI/CMS.....	199410.....	199709
CMI(C).....	199801.....	199809
CMI(O).....	199810.....	204509

**RIP Date:** 199810

**RC Date:** 204510

## SITE DESCRIPTION

FTRU-008 was a 10-acre landfill located in the southeast portion of Fort Rucker on North Dilly Branch Road and east of the Engine Test Stand. When the site began operation is unknown; however, it operated as a trench and fill landfill until closure in 1970. Household refuse and debris from demolished barracks were placed here. In 1997 an RFI confirmed that a further investigation was required to determine the impact to this site from three adjacent SWMUs, as well as the impact to downgradient areas. Phase II RFI results confirmed the Phase I data and a CMS was recommended. A CMS was conducted and recommended natural attenuation with enhanced monitoring. ADEM concurred with the recommendations of the CMS. Natural attenuation monitoring will continue in accordance with the CMIP, dated May 15, 2007 on a semiannual basis for VOCs.

Results from the 2015 monitoring events indicate that concentrations are consistent with historical results. Results suggest natural attenuation is occurring. This site is covered under a hazardous waste corrective action permit issued by ADEM.

Costs for this site to include periodic reviews and USACE supervision and administration (S&A) will be captured under FTRU-171.

## CLEANUP/EXIT STRATEGY

MNA will continue until cleanup objectives have been met as defined in the approved CMIP dated May 2007 and Fort Rucker's corrective action permit. Routine maintenance and repair of the landfill cover is required. Routine maintenance of the road and drainage ditches is required to ensure well sampling continues. Groundwater and surface water are sampled semiannually and annually as defined in the approved CMIP.

Once VOC concentrations have decreased below MCLs for three consecutive monitoring events in a single well, monitoring may be discontinued at the well upon the approval of the revision to the CMIP and a modification to the permit.

Upon approval by ADEM, wells will be properly abandoned according to the Draft Well Closure Plan prepared by Metcalf and Eddy prepared in 2002.

Post-PBA CMI(O) will continue for 30 years (through FY45).

Site ID: FTRU-012

Site Name: LANDFILL OZARK CITY LEASEE, SWMU 4

Alias: SWMU 4

### STATUS

Regulatory Driver: RCRA

RRSE: MEDIUM

Contaminants of Concern: Volatiles (VOC)

Media of Concern: Groundwater

Phases	Start	End
RFA.....	198202.....	198611
CS.....	199010.....	199602
RFI/CMS.....	199410.....	200109
CMI(C).....	200109.....	200109
CMI(O).....	200110.....	204509

RIP Date: 200110

RC Date: 204510

### SITE DESCRIPTION

This site was a trench and fill landfill of about 10 acres located on Campground Road at the northern edge of Fort Rucker. Woods surround the landfill on three sides and a road and residential houses are located on the fourth side. The landfill was a municipal waste landfill which operated from 1977 to 1982. In addition to the installation, the landfill was used by the city of Ozark and Dale County to dispose of household waste.

Investigation results from the Phase I RFI indicated groundwater contamination at this site and further investigation was required to determine the full extent and impact of this contamination. The Phase II RFI, conducted in 1997, confirmed the Phase I results and this site was recommended for corrective measures. A CMS was conducted, and the recommendations in the CMS were for MNA with enhanced monitoring. On Jan. 5, 1998 the UESPA approval of the CMS was received.

ADEM concurred with the recommendations of the CMS for MNA with enhanced monitoring on a semiannual basis for VOCs and metals. Groundwater monitoring, routine cover maintenance and maintaining access roads to monitoring wells will be in accordance with the CMIP, dated May 2007. This site is covered under a hazardous waste corrective action permit issued by ADEM.

The results from the 2015 monitoring events at SWMU 4 indicate that concentrations are consistent with historical results. The VOC trends are either no significant change or significantly decreasing in one well. These results, along with the natural attenuation parameter results, suggest that environmental conditions are favorable for natural attenuation and that it is occurring. However, the state regulatory agency has required that the VOC contamination in the groundwater be delineated. A task order to prepare a RFI at the site was awarded in FY13. A draft RFI addendum was submitted in December 2014. The RFI addendum is expected to be completed in 2016.

Costs for this site to include periodic reviews and USACE S&A will be captured under FTRU-171.

### CLEANUP/EXIT STRATEGY

MNA will continue until cleanup objectives have been met as defined in the approved CMIP dated May 2007 and Fort Rucker's corrective action permit. Routine cover maintenance is required. Groundwater is sampled semiannually as defined in the approved CMIP.

ADEM has requested that an RFI be performed to delineate VOC contamination in the groundwater. The final RFI was submitted to ADEM in January 2015.

Once VOC concentrations have decreased below MCLs for three consecutive monitoring events in a single well, monitoring may be discontinued at the well upon the approval of the revision to the CMIP and a modification to the permit.

**Site ID: FTRU-012**  
**Site Name: LANDFILL OZARK CITY LEASEE, SWMU 4**  
**Alias: SWMU 4**

Upon approval by ADEM, wells will be properly abandoned according to the Draft Well Closure Plan prepared by Metcalf and Eddy in 2002.

Post-PBA CMI(O) will continue for 30 years (through FY45).

**Site ID: FTRU-040**  
**Site Name: WASTE POL DISPOSAL, SWMU 14**  
**Alias: SWMU 14**

**STATUS**

**Regulatory Driver:** RCRA  
**RRSE:** MEDIUM  
 Contaminants of Concern: Metals, Petroleum, Oil and Lubricants (POL)  
 Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	198202.....	198611
CS.....	199010.....	199602
RFI/CMS.....	199610.....	200109
IRA.....	199706.....	199909
LTM.....	200110.....	204610
<b>RIP Date:</b>	N/A	
<b>RC Date:</b>	200109	

**SITE DESCRIPTION**

This site was an unlined pit approximately 80 feet in diameter and seven feet deep. The pit was located on Faulkner Gate Road and was used to dispose of waste POL products such as contaminated helicopter fuel, tanker truck washouts, and possibly motor oil. Operations at this site ceased prior to 1980 and the pit was capped with clay. Samples taken from the pit in 1980 showed traces of trichloroethylene (TCE). Both the state of Alabama and Region IV USEPA were notified of the site and immediate closure was recommended. The Phase II RFI conducted in 1997 confirmed the initial investigation results, and a CMS was recommended. The CMS recommended bioventing to digest the POL contamination. A pilot bioventing project was initiated in 1997 and based on its success was optimized and operated for an additional year. A report was submitted to ADEM in April 1999 requesting discontinuation of bioventing. VOCs are below MCLs. A CMIP was developed in July of 2007 and requires metals to be sampled in groundwater.

Fort Rucker requested NFA status for FTRU-040 from ADEM in FY10 based on the three required consecutive sampling events below MCLs referenced in the CMIP and the soil's confirmation sampling conducted in 1999. ADEM responded that a CMI report should be submitted prior to requesting NFA status. A CMI report was submitted to ADEM in January 2014. It was anticipated that NFA would be achieved by 2015 and therefore a cost-to-complete (CTC) was not developed. However, ADEM rejected the report in the letter dated 15 April 2015 and requested that additional information be provided. It is unknown at this time when NFA status will be achieved.

Results from the 2015 monitoring event indicate that concentrations are consistent with historical results. For six semiannual monitoring events there have been no metals detected in the groundwater at concentrations that exceeded screening levels. This site is covered under a Hazardous Waste Corrective Action Permit issued by ADEM.

**CLEANUP/EXIT STRATEGY**

A single round of confirmation soil sampling for VOCs and metals was conducted to support NFA status. A CMI report was submitted to ADEM in January 2014. Groundwater monitoring and vegetative cover maintenance will continue until NFA is granted by ADEM through permit modification and CMIP revision.

**Site ID: FTRU-051**  
**Site Name: FIREFIGHTING TNG AREA, SWMU 15**  
**Alias: SWMU 15**

**STATUS**

**Regulatory Driver:** RCRA  
**RRSE:** HIGH  
 Contaminants of Concern: Volatiles (VOC)  
 Media of Concern: Groundwater, Surface Water

Phases	Start	End
RFA.....	198202.....	198809
CS.....	199010.....	199209
RFI/CMS.....	199209.....	199707
DES.....	199610.....	199707
CMI(C).....	199710.....	199809
CMI(O).....	199910.....	204509
<b>RIP Date:</b>	199910	
<b>RC Date:</b>	204510	

**SITE DESCRIPTION**

This site is located on Dilly Branch Road on the southeast portion of the installation. From the 1950s until 1986 an old unlined fire training pit was operated here. It was approximately 60 feet in diameter and three feet deep and clay lined. Waste POL (crankcase oil, motor gasoline (MOGAS), jet propellant 4 (JP-4), and other fuels) were poured onto a water buffer inside the pit, ignited, and extinguished. In 1986 a new brick lined firefighting training pit overlapping the original site was constructed. As a result of the new construction a portion of the original site was excavated and buried nearby.

In 1994 the installation began an RFI. Soil samples were collected from both pits and wells were installed to determine any impact to groundwater. Contaminants were found in groundwater downgradient of the site and in the water discharging from the oil/water separator. The Phase II RFI data confirmed the Phase I data and a CMS was recommended. The CMS recommended a removal action for both pits. In 1997 the USACE, Mobile District designed a soil removal and thermal desorption project for the site. Work began in 1997 and was completed in 1998. MNA was initiated in accordance with the 1997 CMS and continued in accordance with the approved 2007 CMIP.

Results from the 2015 monitoring events indicate that concentrations are consistent with historical results. Results suggest natural attenuation is occurring. This site is covered under a hazardous waste corrective action permit issued by ADEM.

Costs for this site to include periodic reviews and USACE S&A will be captured under FTRU-171.

**CLEANUP/EXIT STRATEGY**

MNA will continue until cleanup objectives have been met as defined in the approved CMIP dated May 2007 and Fort Rucker's corrective action permit. Routine maintenance of the landfill cap and repair of any deterioration is required. Routine maintenance of the road and drainage ditches is required to ensure well sampling continues. Groundwater and surface water are sampled semiannually and annually as defined in the approved CMIP.

Once VOC concentrations have decreased below MCLs for three consecutive monitoring events in a single well, monitoring may be discontinued at the well upon the approval of the revision to the CMIP and a modification to the permit.

Upon approval by ADEM wells will be properly abandoned according to the Draft Well Closure Plan prepared by Metcalf and Eddy prepared in 2002.

Post-PBA CMI(O) and land use controls (LUC) will continue for 30 years (through FY45).

**Site ID: FTRU-171**

**Site Name: CLOSED SANITARY LANDFILL, SWMU 2D**

**Alias: SWMU 2D**

## STATUS

**Regulatory Driver:** RCRA

**RRSE:** MEDIUM

Contaminants of Concern: Metals, Volatiles (VOC)

Media of Concern: Groundwater

<b>Phases</b>	<b>Start</b>	<b>End</b>
RFA.....	198202.....	198611
CS.....	199908.....	200109
RFI/CMS.....	200106.....	200512
DES.....	200310.....	200512
CMI(C).....	200407.....	200709
CMI(O).....	200407.....	204509
<b>RIP Date:</b>	200709	
<b>RC Date:</b>	204510	

## SITE DESCRIPTION

This site was a trench and fill landfill located at the southeast corner of Hatch and Engineer Road in the southeastern area of the installation. It was approximately 40 acres and was operated from about 1950 to the early-1980s. The landfill was used to dispose of a wide variety of materials. The west half of the site was backfilled with clean fill and pine trees were planted. The east half was closed and backfilled with clean fill.

Groundwater monitoring wells were installed at various times throughout the life of the landfill. During this monitoring contamination above MCLs was detected in several wells. In June 1999, ADEM required the installation to prepare a groundwater corrective action plan (CAP). As a result of the CAP, 16 groundwater monitoring wells were installed to delineate the extent of the contamination. Preliminary analytical data collected indicated the presence of chlorinated solvents, VOCs, and metals. At that time, the contamination appeared to be migrating from the site. Preliminary data suggested the need for additional groundwater monitoring wells to further delineate the plume. In January 2001, six additional monitoring wells were installed. Based upon sampling results, the limits of the plume were horizontally delineated.

In 2007 a RCRA cap was constructed to cover the 30.5-acre site as delineated by the use of geophysics and test pits. The CMI(O) includes maintenance, erosion control, and LUCs, as well as MNA and groundwater monitoring as described in the approved 2008 CMIP. Groundwater monitoring at this site includes required monitoring at AOC-P which is downgradient and contiguous of FTRU-171.

Costs for future periodic reviews and USACE S&A for sites FTRU-002, FTRU-008, FTRU-012, FTRU-051 and AOC-S will be captured under this site.

## CLEANUP/EXIT STRATEGY

A RCRA constructed cap covers the entire site. The CMI(O) will include erosion control, LUCs, MNA and groundwater performance monitoring to estimated end date in 2045. Future LTM will consist of LUCs, groundwater monitoring, and cap maintenance.

**Site ID: FTRU-172**  
**Site Name: DIESEL, UST, SWMU H**  
**Alias: FTRU-172**

## STATUS

**Regulatory Driver:** RCRA  
**RRSE:** NOT EVALUATED

<b>Phases</b>	<b>Start</b>	<b>End</b>
RFA.....	198202.....	198611
CS.....	201603.....	201705

**RIP Date:** N/A

**RC Date:** 201706

## SITE DESCRIPTION

FTRU-172 (AOC-H) is a former underground storage tank (UST) site. The site was given an NFA status in Fort Rucker's initial corrective action permit. However, the RFA conducted in 2013 recommended that the site be investigated to determine if any USTs are present.

## CLEANUP/EXIT STRATEGY

A contract to investigate the site will be awarded in 2016.



**Site ID: FTRU-174**  
**Site Name: OIL GAS STATION SITE, UST, SWMU E**  
**Alias: FTRU-174**

## STATUS

**Regulatory Driver:** RCRA  
**RRSE:** NOT EVALUATED

<b>Phases</b>	<b>Start</b>	<b>End</b>
RFA.....	198202.....	198611
CS.....	201603.....	201705

**RIP Date:** N/A

**RC Date:** 201706

## SITE DESCRIPTION

FTRU-174 (AOC-E) is a former gas station site. The site was given an NFA status in Fort Rucker's initial corrective action permit. However, the RFA conducted in 2013 recommended that the site be investigated to determine if USTs are present.

## CLEANUP/EXIT STRATEGY

A contract to investigate the site will be awarded in 2016.

**Site ID: FTRU-175**  
**Site Name: OLD GAS STATION SITE, UST, SWMU F**  
**Alias: FTRU-175**

## STATUS

**Regulatory Driver:** RCRA  
**RRSE:** NOT EVALUATED

<b>Phases</b>	<b>Start</b>	<b>End</b>
RFA.....	198202.....	198611
CS.....	201603.....	201705

**RIP Date:** N/A

**RC Date:** 201706

## SITE DESCRIPTION

FTRU-175 (AOC-F) is a former gas station site. The site was given an NFA status in Fort Rucker's initial corrective action permit. However, the RFA conducted in 2013 recommended that the site be investigated to determine if USTs are present.

## CLEANUP/EXIT STRATEGY

A contract to investigate the site will be awarded in 2016.

## Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
FTRU-001	LANDFILL SOUTH OF OLD HOSPITAL, SWMU 2A	198611	Hazardous Solid Waste Amendment (HSWA) Permit 200311
FTRU-002	LF NORTH OF AEROMED RES BLD SWMU 3	201510	
FTRU-003	LF SW CORNER RED CLOUD/COPTER RD SWMU 6	200701	NFA Letter 200703
FTRU-004	LF PROPERTY DISPOSAL YARD, SWMU 7	199410	HSWA Permit 200311
FTRU-005	LF S OF ENGR RD & N OF RESV BNDRY, SWMU 8	200703	NFA Letter 200703
FTRU-006	LF S OF CASTLE RD & N OF BNDRY, SWMU 9	199602	HSWA Permit 200311
FTRU-007	LF S OF DILLY BR/N OR CASTLE RD, SWMU 11	199602	HSWA Permit 200311
FTRU-009	LANDFILL NEAR ENTRANCE STOR YARD, SWMU 2B	198611	HSWA Permit 200311
FTRU-010	SI HATCH ROAD NEAR LAKE, SWMU 2C	199812	NFA Letter 200501
FTRU-011	LF GULLY ON AIRPORT RD/NEAR SH95, SWMU 13	198611	HSWA Permit 200311
FTRU-013	CONSTRUCTION DEBRIS LANDFILL, SWMU 1	198611	HSWA Permit 200311
FTRU-014	MUNICIPAL WASTE INCINERATOR, SWMU 22	198611	HSWA Permit 200311
FTRU-015	HOSPITAL INCINERATOR, SWMU 23	198611	HSWA Permit 200311
FTRU-020	MAIN POST LANDFILL, SWMU 5	198611	HSWA Permit 200311
FTRU-022	PRESENT AMMO INSP PT BURN TRENCH, SWMU66	198611	HSWA Permit 200311
FTRU-023	FMR AMMO INSP PT BURN TRENCH, SWMU 67	198611	HSWA Permit 200311
FTRU-030	WASTEWATER TREATMENT PLANT, SWMU 20	199208	HSWA Permit 200311
FTRU-031	HATCHEY ARMY HELIPORT STP(LAGOON), SWMU16	198611	HSWA Permit 200311
FTRU-032	KNOX ARMY HELIPORT STP (LAGOON), SWMU 17	198611	HSWA Permit 200311
FTRU-033	LOWE WSTEWTR PRETREAT(CRREDX)PLANT, SWMU19	198611	HSWA Permit 200311
FTRU-034	CAIRNS AHP SEWAGE TREAT PLANT, SWMU 21	198611	HSWA Permit 200311
FTRU-041	STORAGE WASTE POL-10K GAL RR TANK, SWMU27	199803	NFA Letter 200402
FTRU-042	STRG WAST POL(10K GAL RR TANK), SWMU 28	199803	NFA Letter 200402
FTRU-043	STORAGE WASTE POL(10K GAL UST) SWMU 29	198611	HSWA Permit 200311
FTRU-044	STORAGE WASTE POL(10K GAL UST) SWMU 30	198611	HSWA Permit 200311
FTRU-045	STORAGE WASTE POL(30K GAL AST), SWMU 31	199803	HSWA Permit 200311
FTRU-046	WASTE POL(UST)(BLDG 4701) 2EA, SWMU 32AB	198611	HSWA Permit 200311
FTRU-047	WASTE OIL(UST)(BLDG 6021) 2EA, SWMU 33AB	198611	HSWA Permit 200311
FTRU-048	WASTE POL(UST) (BLDG 311) SWMU 34 A & B)	198611	HSWA Permit 200311
FTRU-049	WASTE POL(UST) (BLDG 1102) SWMU 35	198611	HSWA Permit 200311
FTRU-050	WASTE POL(UST) (BLDG 1013), SWMU 36	198611	HSWA Permit 200311
FTRU-052	WST FUEL STR SW DILLY BR RD&AVE F SWMU63	199803	NFA Letter 200403
FTRU-070	PESTICIDE STOR/HANDLE(BLDG 1476)SWMU 49	200410	NFA Letter 200410
FTRU-071	PESTICIDE STORE/HANDLE (BLD 1424) SWMU48	199712	NFA Letter 200403
FTRU-073	HERBICIDE STORAGE (BLDG 1448), SWMU 50	200410	NFA Letter 200410
FTRU-075	PESTICIDE/HERBICIDE STE(BLD 20023)SWMU51	199602	HSWA Permit 200311

## Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
FTRU-079	WASHRACK W/ O W SEP(BLDG 1436), SWMU 80	199602	HSWA Permit 200311
FTRU-080	WASHRACK W/O W SEP(LOWE AHP), SWMU 71	199803	HSWA Permit 200311
FTRU-081	WASHRACK W/O W SEP(BLDG 6035), SWMU 72	199410	HSWA Permit 200311
FTRU-082	WASHRACK W/ O W SEP(BLDG 1412), SWMU 73	199803	NFA Letter 200412
FTRU-083	WASHRACK W/O W SEP(ALNG AREA), SWMU 74	199410	HSWA Permit 200311
FTRU-084	WASHRACK W/O W SEP(4000 BLOCK), SWMU 75	198611	HSWA Permit 200311
FTRU-085	WASHRACK W/O W SEP(11TH & 2ND AVE)SWMU76	198611	HSWA Permit 200311
FTRU-086	WASHRACK W/O W SEP(FIRE STATION), SWMU77	198611	HSWA Permit 200311
FTRU-087	WASHRACK W/O W SEP(BLDG 405), SWMU 78	198611	HSWA Permit 200311
FTRU-088	WASHRACK W/O W SEP(BLDG 708), SWMU 79	198611	HSWA Permit 200311
FTRU-089	WASHRACK W/O W SEP(BLDG 706), SWMU 92	198611	HSWA Permit 200311
FTRU-090	WASHRACK W/O W SEP(BLDG 709), SWMU 91	198611	HSWA Permit 200311
FTRU-091	WASHRACK W/O W SEP(BLDG 1406), SWMU 89	198611	HSWA Permit 200311
FTRU-092	WASHRACK W/O W SEP(BLDG 1416), SWMU 81	198611	HSWA Permit 200311
FTRU-093	WASHRACK W/O W SEP(BLDG 4710), SWMU 82	198611	HSWA Permit 200311
FTRU-094	WASHRACK W/O W SEP(BLDG 25104), SWMU 83	198611	HSWA Permit 200311
FTRU-095	WASHRACK W/O W SEP(BLDG 50201), SWMU 85	198611	HSWA Permit 200311
FTRU-096	WASHRACK W/O W SEP(BLDG 30306), SWMU 86	198611	HSWA Permit 200311
FTRU-097	WASHRACK W/O W SEP(BLDG 30301), SWMU 87	198611	HSWA Permit 200311
FTRU-098	WASHRACK W/O W SEP(BLDG 50201), SWMU 84	198611	HSWA Permit 200311
FTRU-099	WASHRACK W/O W SEP(BLDG 30125), SWMU 88	198611	HSWA Permit 200311
FTRU-100	WASHRACK W/O W SEP(BLDG 60115), SWMU 90	198611	HSWA Permit 200311
FTRU-101	SUMP DRAINAGE SYSTEM-POL SHOP SWMU 70	199803	NFA Letter 200406
FTRU-102	RADIOLOGICAL WASTE STG (BLDG1314) SWMU58	198611	HSWA Permit 200311
FTRU-109	MATERIAL STORAGE (BLDG 6015), SWMU K	199803	NFA Letter 200412
FTRU-110	FORMER HAZ WASTE STORAGE AREA, SWMU 61	199410	HSWA Permit 200311
FTRU-112	HAZ WASTE STG AREA BLDG 427, (SWMU 56)	198611	HSWA Permit 200311
FTRU-113	MATERIAL STORAGE YARD(1200 AREA), SWMU59	198611	NFA letter Nov 1995.
FTRU-114	PHOTOGRAPHIC LAB (BLDG 1109), SWMU 57	198611	HSWA Permit 200311
FTRU-115	NEW PCB MTR STORE(ENGR & DILLY BR)SWMU J	199803	NFA Letter 200412
FTRU-116	FMR WASTE PCB STRG (DPDO 113), SWMU 55	199602	HSWA Permit 200311
FTRU-117	FMR WASTE PCB STRG(LUMBER YARD), SWMU 54	199602	HSWA Permit 200311
FTRU-119	ACID PIT B/T BLDG 6015 & 6016, SWMU 68	199410	HSWA Permit 200311
FTRU-120	STORM DRN OUTLETS,WASTE STRG AREA,SWMU60	199410	HSWA Permit 200311
FTRU-150	WASTE OIL (500 GAL TAK)(BLDG 405), SWMU C	198611	HSWA Permit 200311
FTRU-151	WASTE OIL(500 GAL AST) (BLDG 702) SWMU38	198611	HSWA Permit 200311

## Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
FTRU-152	FORMER PCB STORAGE AREA, SWMU 53	198611	HSWA Permit 200311
FTRU-153	WASTE OIL(1000 GAL)(BLDG 1406)SWMU 7044	198611	NFA letter June 2004.
FTRU-154	PCB STORAGE AREA, SWMU 52	198611	HSWA Permit 200311
FTRU-156	VMS WASTE POL, UST, SWMU 37	198611	HSWA Permit 200311
FTRU-157	AREA OF OIL SPILL, SWMU L	199410	NFA Letter 200405
FTRU-158	WASTE OIL(55 GAL DRUMS)(BLD 4004)SWMU 64	199803	NFA Letter 200403
FTRU-159	WASTE OIL(200 GAL UST)(BLD 4004) SWMU 45	198611	HSWA Permit 200311
FTRU-160	WASTE OIL(500 GAL AST)(BLD 4710) SWMU 39	198611	HSWA Permit 200311
FTRU-161	DEMOLISHED VEHICLE STORAGE YARD, SWMU 62	199410	NFA Letter 200412
FTRU-162	SPENT BATTERY STRG, BLDG 6015, SWMU 41B	199803	NFA Letter 200403
FTRU-163	WASTE OIL(UST) (BLDG 5410) SWMU 46	198611	NFA Letter 200403
FTRU-164	OLD DISMANTLED INCINERATOR,SWMU 24,25,26	198611	NFA Letter 200403
FTRU-165	WASTE OIL(AST) (BLDG 6015), SWMU 41A	199803	NFA Letter 200403
FTRU-166	WASTE OIL(200 GAL UST)(BLD 8304)SWMU 40A	198611	HSWA Permit 200311
FTRU-167	WASTE OIL(50K GAL UST)(BLD 8303)SWMU 40B	198611	HSWA Permit 200311
FTRU-168	EMPTY 50K GALLON TANK, SWMU A	198611	HSWA Permit 200311
FTRU-169	8-BRAVO EOD RANGE, SWMU 65	198611	HSWA Permit 200311
FTRU-170	WASTE OIL(UST) (ALNG SITE) SWMU 43	198611	HSWA Permit 200311
FTRU-173	UNKNOWN UST-LOWE AHP, SWMU I	198611	HSWA Permit 200311
FTRU-176	INACTIVE CONSTRUCTION DEBRIS LF, SWMU 12	198611	HSWA Permit 200311
FTRU-177	MAIN SEWAGE TREATMENT PLANT, SWMU 18	198611	HSWA Permit 200311
FTRU-178	VMS, WASTE POL, UST, SWMU 42	198611	HSWA Permit 200311
FTRU-179	PRODUCT STORAGE AREA, SWMU D	199808	NFA Letter 200412
FTRU-180	FORMER HAZ. MAT'L DRUM STORAGE, SWMU G	199602	HSWA Permit 200311
FTRU-181	PCP DIP TANK, SWMU 69	199602	HSWA Permit 200311
FTRU-182	BLDG 810, REFUELING POINT	199607	NFA letter Apr 2002.
FTRU-183	CONTAMINATED SOIL, TANK HILL	199701	This site was never included in the permit issued by the state of Alabama. The removal took place in 1997 to close out this site.

## IRP Schedule

Date of IRP Inception: 198202

### Past Phase Completion Milestones

1987

RFA

(FTRU-001 - LANDFILL SOUTH OF OLD HOSPITAL, SWMU 2A, FTRU-002 - LF NORTH OF AEROMED RES BLD SWMU 3, FTRU-003 - LF SW CORNER RED CLOUD/COPTER RD SWMU 6, FTRU-004 - LF PROPERTY DISPOSAL YARD, SWMU 7, FTRU-005 - LF S OF ENGR RD & N OF RESV BNDRY, SWMU 8, FTRU-006 - LF S OF CASTLE RD & N OF BNDRY, SWMU 9, FTRU-007 - LF S OF DILLY BR/N OR CASTLE RD, SWMU 11, FTRU-008 - LF N OF DILLY BR RD/E OF TEST STD, SWMU10, FTRU-009 - LANDFILL NEAR ENTRANCE STOR YARD, SWMU 2B, FTRU-010 - SI HATCH ROAD NEAR LAKE, SWMU 2C, FTRU-011 - LF GULLY ON AIRPORT RD/NEAR SH95, SWMU 13, FTRU-012 - LANDFILL OZARK CITY LEASEE, SWMU 4, FTRU-013 - CONSTRUCTION DEBRIS LANDFILL, SWMU 1, FTRU-014 - MUNICIPAL WASTE INCINERATOR, SWMU 22, FTRU-015 - HOSPITAL INCINERATOR, SWMU 23, FTRU-020 - MAIN POST LANDFILL, SWMU 5, FTRU-022 - PRESENT AMMO INSP PT BURN TRENCH, SWMU66, FTRU-023 - FMR AMMO INSP PT BURN TRENCH, SWMU 67, FTRU-030 - WASTEWATER TREATMENT PLANT, SWMU 20, FTRU-031 - HATCHEY ARMY HELIPORT STP(LAGOON), SWMU16, FTRU-032 - KNOX ARMY HELIPORT STP (LAGOON), SWMU 17, FTRU-033 - LOWE WSTEWTR PRETREAT(CRREDX)PLANT, SWMU19, FTRU-034 - CAIRNS AHP SEWAGE TREAT PLANT, SWMU 21, FTRU-040 - WASTE POL DISPOSAL, SWMU 14, FTRU-041 - STORAGE WASTE POL-10K GAL RR TANK, SWMU27, FTRU-042 - STRG WAST POL(10K GAL RR TANK), SWMU 28, FTRU-043 - STORAGE WASTE POL(10K GAL UST) SWMU 29, FTRU-044 - STORAGE WASTE POL(10K GAL UST) SWMU 30, FTRU-045 - STORAGE WASTE POL(30K GAL AST), SWMU 31, FTRU-046 - WASTE POL(UST)(BLDG 4701) 2EA, SWMU 32AB, FTRU-047 - WASTE OIL(UST)(BLDG 6021) 2EA, SWMU 33AB, FTRU-048 - WASTE POL(UST) (BLDG 311) SWMU 34 A & B), FTRU-049 - WASTE POL(UST) (BLDG 1102) SWMU 35, FTRU-050 - WASTE POL(UST) (BLDG 1013), SWMU 36, FTRU-052 - WST FUEL STR SW DILLY BR RD&AVE F SWMU63, FTRU-070 - PESTICIDE STOR/HANDLE(BLDG 1476)SWMU 49, FTRU-071 - PESTICIDE STORE/HANDLE (BLD 1424) SWMU48, FTRU-073 - HERBICIDE STORAGE (BLDG 1448), SWMU 50, FTRU-075 - PESTICIDE/HERBICIDE STE(BLD 20023)SWMU51, FTRU-079 - WASHRACK W/O W SEP(BLDG 1436), SWMU 80, FTRU-080 - WASHRACK W/O W SEP(LOWE AHP), SWMU 71, FTRU-081 - WASHRACK W/O W SEP(BLDG 6035), SWMU 72, FTRU-082 - WASHRACK W/O W SEP(BLDG 1412), SWMU 73, FTRU-083 - WASHRACK W/O W SEP(ALNG AREA), SWMU 74, FTRU-084 - WASHRACK W/O W SEP(4000 BLOCK), SWMU 75, FTRU-085 - WASHRACK W/O W SEP(11TH & 2ND AVE)SWMU76, FTRU-086 - WASHRACK W/O W SEP(FIRE STATION), SWMU77, FTRU-087 - WASHRACK W/O W SEP(BLDG 405), SWMU 78, FTRU-088 - WASHRACK W/O W SEP(BLDG 708), SWMU 79, FTRU-089 - WASHRACK W/O W SEP(BLDG 706), SWMU 92, FTRU-090 - WASHRACK W/O W SEP(BLDG 709), SWMU 91, FTRU-091 - WASHRACK W/O W SEP(BLDG 1406), SWMU 89, FTRU-092 - WASHRACK W/O W SEP(BLDG 1416), SWMU 81, FTRU-093 - WASHRACK W/O W SEP(BLDG 4710), SWMU 82, FTRU-094 - WASHRACK W/O W SEP(BLDG 25104), SWMU 83, FTRU-095 - WASHRACK W/O W SEP(BLDG 50201), SWMU 85, FTRU-096 - WASHRACK W/O W SEP(BLDG 30306), SWMU 86, FTRU-097 - WASHRACK W/O W SEP(BLDG 30301), SWMU 87, FTRU-098 - WASHRACK W/O W SEP(BLDG 50201), SWMU 84, FTRU-099 - WASHRACK W/O W SEP(BLDG 30125), SWMU 88, FTRU-100 - WASHRACK W/O W SEP(BLDG 60115), SWMU 90, FTRU-101 - SUMP DRAINAGE SYSTEM-POL SHOP SWMU 70, FTRU-102 - RADIOLOGICAL WASTE STG (BLDG1314) SWMU58, FTRU-109 - MATERIAL STORAGE (BLDG 6015), SWMU K, FTRU-110 - FORMER HAZ WASTE STORAGE AREA, SWMU 61, FTRU-112 - HAZ WASTE STG AREA BLDG 427, (SWMU 56), FTRU-113 - MATERIAL STORAGE YARD(1200 AREA), SWMU59, FTRU-114 - PHOTOGRAPHIC LAB (BLDG 1109), SWMU 57, FTRU-115 - NEW PCB MTR STORE(ENGR & DILLY BR)SWMU J, FTRU-116 - FMR WASTE PCB STRG (DPDO 113), SWMU 55, FTRU-117 - FMR WASTE PCB STRG(LUMBER YARD), SWMU 54, FTRU-119 - ACID PIT B/T BLDG 6015 & 6016, SWMU 68, FTRU-120 - STORM DRN OUTLETS, WASTE STRG AREA, SWMU60, FTRU-150 - WASTE OIL (500 GAL TAK)(BLDG 405), SWMU C, FTRU-151 - WASTE OIL(500 GAL AST) (BLDG 702) SWMU38, FTRU-152 - FORMER PCB STORAGE AREA, SWMU 53, FTRU-153 - WASTE OIL(1000 GAL)(BLDG 1406)SWMU 7044, FTRU-154 - PCB STORAGE AREA, SWMU 52, FTRU-156 - VMS WASTE POL, UST, SWMU 37, FTRU-157 - AREA OF OIL SPILL, SWMU L, FTRU-158 - WASTE OIL(55 GAL DRUMS)(BLD 4004)SWMU 64, FTRU-159 - WASTE OIL(200 GAL UST)(BLD 4004) SWMU 45, FTRU-160 - WASTE OIL(500 GAL AST)(BLD 4710) SWMU 39, FTRU-161 - DEMOLISHED VEHICLE STORAGE YARD, SWMU 62, FTRU-162 - SPENT BATTERY STRG, BLDG 6015, SWMU 41B, FTRU-163 - WASTE OIL(UST) (BLDG 5410) SWMU 46, FTRU-164 - OLD DISMANTLED INCINERATOR, SWMU 24,25,26, FTRU-165 - WASTE OIL(AST) (BLDG 6015), SWMU 41A, FTRU-166 - WASTE OIL(200 GAL UST)(BLD 8304)SWMU 40A, FTRU-167 - WASTE OIL(50K GAL UST)(BLD

## IRP Schedule

8303)SWMU 40B, FTRU-168 - EMPTY 50K GALLON TANK, SWMU A, FTRU-169 - 8-BRAVO EOD RANGE, SWMU 65, FTRU-170 - WASTE OIL(UST) (ALNG SITE) SWMU 43, FTRU-171 - CLOSED SANITARY LANDFILL, SWMU 2D, FTRU-172 - DIESEL, UST, SWMU H, FTRU-173 - UNKNOWN UST-LOWE AHP, SWMU I, FTRU-174 - OIL GAS STATION SITE, UST, SWMU E, FTRU-175 - OLD GAS STATION SITE, UST, SWMU F, FTRU-176 - INACTIVE CONSTRUCTION DEBRIS LF, SWMU 12, FTRU-177 - MAIN SEWAGE TREATMENT PLANT, SWMU 18, FTRU-178 - VMS, WASTE POL, UST, SWMU 42, FTRU-179 - PRODUCT STORAGE AREA, SWMU D, FTRU-180 - FORMER HAZ. MAT'L DRUM STORAGE, SWMU G, FTRU-181 - PCP DIP TANK, SWMU 69)

### 1988

RFA (FTRU-051 - FIREFIGHTING TNG AREA, SWMU 15)

### 1991

ISC (FTRU-182 - BLDG 810, REFUELING POINT)

### 1992

CS (FTRU-030 - WASTEWATER TREATMENT PLANT, SWMU 20, FTRU-051 - FIREFIGHTING TNG AREA, SWMU 15)

### 1994

CS (FTRU-004 - LF PROPERTY DISPOSAL YARD, SWMU 7)

### 1995

RFI/CMS (FTRU-004 - LF PROPERTY DISPOSAL YARD, SWMU 7)

ISC (FTRU-183 - CONTAMINATED SOIL, TANK HILL)

CS (FTRU-010 - SI HATCH ROAD NEAR LAKE, SWMU 2C, FTRU-042 - STRG WAST POL(10K GAL RR TANK), SWMU 28, FTRU-045 - STORAGE WASTE POL(30K GAL AST), SWMU 31, FTRU-052 - WST FUEL STR SW DILLY BR RD&AVE F SWMU63, FTRU-071 - PESTICIDE STORE/HANDLE (BLD 1424) SWMU48, FTRU-080 - WASHRACK W/O W SEP(LOWE AHP), SWMU 71, FTRU-081 - WASHRACK W/O W SEP(BLDG 6035), SWMU 72, FTRU-082 - WASHRACK W/ O W SEP(BLDG 1412), SWMU 73, FTRU-083 - WASHRACK W/O W SEP(ALNG AREA), SWMU 74, FTRU-101 - SUMP DRAINAGE SYSTEM-POL SHOP SWMU 70, FTRU-109 - MATERIAL STORAGE (BLDG 6015), SWMU K, FTRU-110 - FORMER HAZ WASTE STORAGE AREA, SWMU 61, FTRU-115 - NEW PCB MTR STORE(ENGR & DILLY BR)SWMU J, FTRU-119 - ACID PIT B/T BLDG 6015 & 6016, SWMU 68, FTRU-120 - STORM DRN OUTLETS,WASTE STRG AREA,SWMU60, FTRU-157 - AREA OF OIL SPILL, SWMU L, FTRU-158 - WASTE OIL(55 GAL DRUMS)(BLD 4004)SWMU 64, FTRU-161 - DEMOLISHED VEHICLE STORAGE YARD, SWMU 62, FTRU-162 - SPENT BATTERY STRG, BLDG 6015, SWMU 41B, FTRU-165 - WASTE OIL(AST) (BLDG 6015), SWMU 41A, FTRU-179 - PRODUCT STORAGE AREA, SWMU D)

### 1996

IMP(C) (FTRU-182 - BLDG 810, REFUELING POINT)

CS (FTRU-002 - LF NORTH OF AEROMED RES BLD SWMU 3, FTRU-003 - LF SW CORNER RED CLOUD/COPTER RD SWMU 6, FTRU-005 - LF S OF ENGR RD & N OF RESV BNDRY,SWMU 8, FTRU-006 - LF S OF CASTLE RD & N OF BNDRY, SWMU 9, FTRU-007 - LF S OF DILLY BR/N OR CASTLE RD, SWMU 11, FTRU-008 - LF N OF DILLY BR RD/E OF TEST STD,SWMU10, FTRU-012 - LANDFILL OZARK CITY LEASEE, SWMU 4, FTRU-040 - WASTE POL DISPOSAL, SWMU 14, FTRU-041 - STORAGE WASTE POL-10K GAL RR TANK,SWMU27, FTRU-070 - PESTICIDE STOR/HANDLE(BLDG 1476)SWMU 49, FTRU-073 - HERBICIDE STORAGE (BLDG 1448), SWMU 50, FTRU-075 - PESTICIDE/HERBICIDE STE(BLD 20023)SWMU51, FTRU-079 - WASHRACK W/ O W SEP(BLDG 1436), SWMU 80, FTRU-116 - FMR WASTE PCB STRG (DPDO 113), SWMU 55, FTRU-117 - FMR WASTE PCB STRG(LUMBER YARD), SWMU 54, FTRU-180 - FORMER HAZ. MAT'L DRUM STORAGE, SWMU G, FTRU-181 - PCP DIP TANK, SWMU 69)

### 1997

DES (FTRU-010 - SI HATCH ROAD NEAR LAKE, SWMU 2C, FTRU-041 - STORAGE WASTE POL-10K GAL RR TANK,SWMU27, FTRU-042 - STRG WAST POL(10K GAL RR TANK), SWMU 28, FTRU-045 - STORAGE WASTE POL(30K GAL AST), SWMU 31, FTRU-051 - FIREFIGHTING TNG AREA, SWMU 15, FTRU-052 - WST FUEL STR SW DILLY BR RD&AVE F SWMU63, FTRU-071 - PESTICIDE STORE/HANDLE (BLD 1424)

## IRP Schedule

	SWMU48, FTRU-080 - WASHRACK W/O W SEP(LOWE AHP), SWMU 71, FTRU-082 - WASHRACK W/ O W SEP(BLDG 1412), SWMU 73, FTRU-101 - SUMP DRAINAGE SYSTEM-POL SHOP SWMU 70, FTRU-109 - MATERIAL STORAGE (BLDG 6015), SWMU K, FTRU-115 - NEW PCB MTR STORE(ENGR & DILLY BR)SWMU J, FTRU-158 - WASTE OIL(55 GAL DRUMS)(BLD 4004)SWMU 64, FTRU-162 - SPENT BATTERY STRG, BLDG 6015, SWMU 41B, FTRU-165 - WASTE OIL(AST) (BLDG 6015), SWMU 41A, FTRU-179 - PRODUCT STORAGE AREA, SWMU D)
IMP(C)	(FTRU-183 - CONTAMINATED SOIL, TANK HILL)
RFI/CMS	(FTRU-003 - LF SW CORNER RED CLOUD/COPTER RD SWMU 6, FTRU-005 - LF S OF ENGR RD & N OF RESV BNDRY,SWMU 8, FTRU-008 - LF N OF DILLY BR RD/E OF TEST STD,SWMU10, FTRU-051 - FIREFIGHTING TNG AREA, SWMU 15)
<b>1998</b>	
CMI(C)	(FTRU-008 - LF N OF DILLY BR RD/E OF TEST STD,SWMU10, FTRU-010 - SI HATCH ROAD NEAR LAKE, SWMU 2C, FTRU-041 - STORAGE WASTE POL-10K GAL RR TANK,SWMU27, FTRU-042 - STRG WAST POL(10K GAL RR TANK), SWMU 28, FTRU-045 - STORAGE WASTE POL(30K GAL AST), SWMU 31, FTRU-051 - FIREFIGHTING TNG AREA, SWMU 15, FTRU-052 - WST FUEL STR SW DILLY BR RD&AVE F SWMU63, FTRU-071 - PESTICIDE STORE/HANDLE (BLD 1424) SWMU48, FTRU-080 - WASHRACK W/O W SEP(LOWE AHP), SWMU 71, FTRU-082 - WASHRACK W/ O W SEP(BLDG 1412), SWMU 73, FTRU-101 - SUMP DRAINAGE SYSTEM-POL SHOP SWMU 70, FTRU-109 - MATERIAL STORAGE (BLDG 6015), SWMU K, FTRU-115 - NEW PCB MTR STORE(ENGR & DILLY BR)SWMU J, FTRU-158 - WASTE OIL(55 GAL DRUMS)(BLD 4004)SWMU 64, FTRU-162 - SPENT BATTERY STRG, BLDG 6015, SWMU 41B, FTRU-165 - WASTE OIL(AST) (BLDG 6015), SWMU 41A, FTRU-179 - PRODUCT STORAGE AREA, SWMU D)
<b>1999</b>	
IRA	(FTRU-040 - WASTE POL DISPOSAL, SWMU 14)
<b>2001</b>	
CMI(C)	(FTRU-012 - LANDFILL OZARK CITY LEASEE, SWMU 4)
CS	(FTRU-171 - CLOSED SANITARY LANDFILL, SWMU 2D)
RFI/CMS	(FTRU-002 - LF NORTH OF AEROMED RES BLD SWMU 3, FTRU-012 - LANDFILL OZARK CITY LEASEE, SWMU 4, FTRU-040 - WASTE POL DISPOSAL, SWMU 14)
IRA	(FTRU-002 - LF NORTH OF AEROMED RES BLD SWMU 3, FTRU-073 - HERBICIDE STORAGE (BLDG 1448), SWMU 50)
<b>2002</b>	
IRA	(FTRU-070 - PESTICIDE STOR/HANDLE(BLDG 1476)SWMU 49)
<b>2003</b>	
RFI/CMS	(FTRU-070 - PESTICIDE STOR/HANDLE(BLDG 1476)SWMU 49, FTRU-073 - HERBICIDE STORAGE (BLDG 1448), SWMU 50)
<b>2005</b>	
LTM	(FTRU-070 - PESTICIDE STOR/HANDLE(BLDG 1476)SWMU 49, FTRU-073 - HERBICIDE STORAGE (BLDG 1448), SWMU 50)
<b>2006</b>	
RFI/CMS	(FTRU-171 - CLOSED SANITARY LANDFILL, SWMU 2D)
RFA	(AOC-S - PCE in GW near SWMU 8)
DES	(FTRU-171 - CLOSED SANITARY LANDFILL, SWMU 2D)
<b>2007</b>	
CMI(C)	(FTRU-171 - CLOSED SANITARY LANDFILL, SWMU 2D)
LTM	(FTRU-003 - LF SW CORNER RED CLOUD/COPTER RD SWMU 6, FTRU-005 - LF S OF ENGR RD & N OF RESV BNDRY,SWMU 8)
<b>2013</b>	
RFI/CMS	(AOC-S - PCE in GW near SWMU 8)



# IRP Schedule

2014

CMI(C) (AOC-S - PCE in GW near SWMU 8)

## 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: 201310

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of IRP at Installation (including LTM phase): 204610

## FORT RUCKER IRP Schedule

  = phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
AOC-S	PCE in GW near SWMU 8	CMI(O)						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTRU-008	LF N OF DILLY BR RD/E OF TEST STD, SWMU10	CMI(O)						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTRU-012	LANDFILL OZARK CITY LEASEE, SWMU 4	CMI(O)						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTRU-040	WASTE POL DISPOSAL, SWMU 14	LTM						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTRU-051	FIREFIGHTING TNG AREA, SWMU 15	CMI(O)						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTRU-171	CLOSED SANITARY LANDFILL, SWMU 2D	CMI(O)						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTRU-172	DIESEL, UST, SWMU H	CS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTRU-174	OIL GAS STATION SITE, UST, SWMU E	CS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTRU-175	OLD GAS STATION SITE, UST, SWMU F	CS						

**FORT RUCKER**  
**Army Defense Environmental Restoration Program**  
**Military Munitions Response Program**

# MMRP Summary

**Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count:** 7/5

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

2 Firing Range  
(FTRU-001-R-01, FTRU-003-R-01)

**Most Widespread Contaminants of Concern**

Munitions and explosives of concern (MEC)

**Media of Concern**

Groundwater, Soil

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

Site ID	Site Name	Action	Remedy	FY
FTRU-001-R-01	ANTI-TANK ROCKET/GRENADE RANGE	IRA	INSTITUTIONAL CONTROLS	2013
FTRU-001-R-01	ANTI-TANK ROCKET/GRENADE RANGE	IRA	UXO CLEARANCE	2015

**Duration of MMRP**

**Date of MMRP Inception** 200202

**Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC):** 201812/201812

**Date of MMRP completion including Long Term Management (LTM):** 201809

# MMRP Contamination Assessment

## Contamination Assessment Overview

The Department of Defense (DoD) has established the Military Munitions Response Program (MMRP) under the Defense Environmental Restoration Program (DERP) to address DoD sites with MEC including unexploded ordnance (UXO), discarded military munitions (DMM), and munitions constituents (MC).

The MMRP eligible sites include other than operational ranges where UXO, DMM and MC is known or suspected and the release occurred prior to Sept. 30, 2002. Because properties classified as operational ranges are not eligible they are excluded from the MMRP program.

The process began with three phases of range inventories. Phase I consisted of installations completing an initial data call. The USAEC managed the implementation of phases two and three of the MMRP inventory.

The Phase II inventory dealt with active and inactive (A/I) range considerations. Phase III involved the 2002 closed, transferred or transferring (CTT) range inventory. Included were extensive mapping, data collection for upload to the Army Range Inventory Database, an assessment of explosives safety risk using the risk assessment code (RAC) methodology for CTT ranges or sites with UXO or DMM identified in the inventory, and a determination of which sites on the inventory potentially qualify for the MMRP.

The US Army's inventory of CTT ranges and sites has identified seven sites eligible for action under MMRP at Fort Rucker. The site inspection (SI) has been conducted and four of these sites are RC. The state has provided concurrence on the SIs.

## Cleanup Exit Strategy

The remedial investigation (RI)/feasibility study (FS) began in FY09 under a PBA that includes investigation activities through DD approval. A removal action and LUCs are anticipated.

## MMRP Previous Studies

	<b>Title</b>	<b>Author</b>	<b>Date</b>
<b>2002</b>	Closed, Transferring and Transferred Range/Site Inventory for Fort Rucker, Alabama	Malcolm Pirnie, Inc.	JAN-2002
<b>2004</b>	Final Historical Records Review, Fort Rucker, Alabama	Malcolm Pirnie, Inc.	JUL-2004
	Final Work Plan, Fort Rucker, Alabama	Malcolm Pirnie, Inc.	OCT-2004
<b>2005</b>	Final Site Investigation, Fort Rucker, Alabama	Malcolm Pirnie, Inc.	JUN-2005
	ADEM NFA Letter MMRP Sites	ADEM	NOV-2005
<b>2011</b>	RCRA Facility Investigation Work Plan for FTRU-001-R-01 and FTRU-003-R-01, Final Revision 1	CH2MHILL	NOV-2011
<b>2012</b>	ADEM Letter of Approval of RFI Work Plan, Final Revision 1 for FTRU-001-R-01 and FTRU-003-R-	ADEM	JAN-2012
<b>2013</b>	Munitions and Explosives of Concern RCRA Facility Investigation FTRU-004-R-01 .22 Caliber Target Butt, Fort Rucker, Alabama	CH2MHILL	MAR-2013
<b>2014</b>	Statement of Basis FTRU-004-R-01, .22 Caliber Target Butt, Fort Rucker, Alabama	CH2MHILL	MAR-2014

# **FORT RUCKER**

## **Military Munitions Response Program**

### **Site Descriptions**

**Site ID: FTRU-001-R-01**  
**Site Name: ANTI-TANK ROCKET/GRENADE RANGE**  
**Alias: AOC-W**

**STATUS**

**Regulatory Driver:** RCRA  
**MRSPP Score:** 03  
 Contaminants of Concern: Munitions and explosives of concern (MEC)  
 Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	200202.....	200305
CS.....	200309.....	200506
RFI/CMS.....	200810.....	201809
IRA.....	201103.....	201412
<b>RIP Date:</b>	N/A	
<b>RC Date:</b>	201812	

**SITE DESCRIPTION**

The anti-tank rocket/grenade range is located northeast of the cantonment and occupies approximately 57 acres of other than operational range designated area. The area has since been developed and is currently used as a portion of the installation golf course. The anti-tank rocket/grenade range consists of three distinct sub-sites: Anti-tank Rocket Range No. 1 (ATR No. 1), Anti-tank Grenade Range No. 1 (ATG No.1), and an unnamed range.

Much of the former range area (approximately 39.1 acres) has been converted to a golf course for use by installation personnel and guests. Most of this portion of the former range area consists of maintained grassy areas with very few trees. The remainder of the range area (17.9 acres) is wooded. These wooded areas generally lack significant undergrowth and are easily accessible. Most of the ground surface in the wooded areas is covered with leaf litter and fallen limbs/trees.

As noted in the historical records review (HRR), training in the anti-tank rocket/grenade range at Fort Rucker took place from about 1942 to 1952. Since range specific usage dates are not available, the anti-tank rocket/grenade range most likely was used for artillery training during this nine-year period.

In June 2005 the SI was completed and recommended further investigations focused on MEC.

Site data including site size and type are based on the following report: Draft Munitions and Explosives of Concern RCRA RFI and CMS FTRU-001-R-01 Anti-Tank/Rocket Grenade Range, FTRU-003-R-01 Infiltration/Grenade Range, Fort Rucker, Alabama, dated September 2012. In September 2012 a PBA to perform a time critical removal action (TCRA) was awarded. The TCRA included surface removal of MEC in all undeveloped areas and subsurface removal of MEC to depth of detection in all developed areas of AT-RGR. Field activities for the TCRA ended in November 2014.

Planned actions at this site will be the design and contract award to install signage in developed areas and LUCs in undeveloped areas of the munitions response site (MRS) and to conduct five-year reviews.

**CLEANUP/EXIT STRATEGY**

The RFI/CMS was awarded through a PBA in FY09 and is underway. The RFI was scheduled to be complete in FY14; however, ADEM has not approved the RFI, and funds for the PBA have expired. Because of the large number of UXO discovered as part of the RFI, a TCRA was recommended. All field activities of the TCRA have been completed. The Army has prepared a corrective action implementation (construction) [CMI(C)] estimate based on information in the draft RFI. The recommended final remedy for this site will be periodic reviews and LUCs.



**Site ID: FTRU-003-R-01**  
**Site Name: INFILTRATION/GRENADE RANGE**  
**Alias: AOC-X**

**STATUS**

**Regulatory Driver:** RCRA  
**MRSPP Score:** 03  
 Contaminants of Concern: Munitions and explosives of concern (MEC)  
 Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	200202.....	200305
CS.....	200309.....	200506
RFI/CMS.....	200810.....	201809
<b>RIP Date:</b>	N/A	
<b>RC Date:</b>	201812	

**SITE DESCRIPTION**

The infiltration/grenade range is adjacent to, but not contiguous with, the anti-tank rocket/grenade range. Much of the former range area is currently used as a golf driving range and occupies some 47.9 acres (rounded to 48 acres) of other than operational range designated area. A previous estimate of the area covered by this site (76.3 acres) was shown to be incorrect because it did not take into account overlapping portions of the individual ranges. The range is made up of three distinct sub-sites: infiltration range no. 2, grenade range no. 1, and the rifle grenade fragmentation range.

The 36.6 acres of the former range area consists of mowed and maintained grassy areas that are used as a driving range and as part of the equestrian center. The remainder of the range area (11.3 acres) is wooded. The wooded areas are generally relatively thick with meandering horse trails. Most of the ground surface in the wooded areas is covered with leaf or pine needle litter.

In June 2005 the SI was completed and recommended further investigations focused on MEC. Site data including site size and type are based on the draft RFI and CMS reports for sites FTRU-001-R-01 Anti-Tank/Rocket Grenade Range and FTRU-003-R-01 Infiltration/Grenade Range dated September 2012.

Planned actions at this site will be the design and contract award to perform surface removal of MEC/material presenting a potential explosive hazard (MPPEH) and LUCs in developed and undeveloped areas of the MRS and to conduct five-year reviews.

**CLEANUP/EXIT STRATEGY**

The RFI/CMS was awarded through a PBA in FY09 and is underway. The RFI was scheduled to be complete in FY14; however, ADEM has not approved the RFI report, and funds for the PBA are now expired. The Army has prepared a CMI(C) estimate based on information in the draft RFI.

The recommended final remedy for this site will be surface removal of all MEC/MPPEH in all areas of FTRU-003-R-01, periodic reviews, and LUCs.

## Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
FTRU-002-R-01	LAKE THOLOCCO PISTOL RANGE	200506	Not eligible for ER,A/Base Realignment and Closure (BRAC) Funding
FTRU-004-R-01	.22 CALIBER TARGET BUTT	201405	
FTRU-005-R-01	A-Grenade and Bayonet Court	200506	SI dated June 2005 identified the site for NFA with state concurrence.
FTRU-006-R-01	B-Grenade and Bayonet Court	200506	SI dated June 2005 identified the site for NFA with state concurrence.
FTRU-007-R-01	C-Grenade and Bayonet Court	200506	SI dated June 2005 identified the site for NFA with state concurrence.

# MMRP Schedule

**Date of MMRP Inception** 200202

## Past Phase Completion Milestones

### 2003

RFA (FTRU-001-R-01 - ANTI-TANK ROCKET/GRENADE RANGE, FTRU-003-R-01 - INFILTRATION/GRENADE RANGE, FTRU-004-R-01 - .22 CALIBER TARGET BUTT)

PA (FTRU-002-R-01 - LAKE THOLOCCO PISTOL RANGE, FTRU-005-R-01 - A-Grenade and Bayonet Court, FTRU-006-R-01 - B-Grenade and Bayonet Court, FTRU-007-R-01 - C-Grenade and Bayonet Court)

### 2005

SI (FTRU-002-R-01 - LAKE THOLOCCO PISTOL RANGE, FTRU-005-R-01 - A-Grenade and Bayonet Court, FTRU-006-R-01 - B-Grenade and Bayonet Court, FTRU-007-R-01 - C-Grenade and Bayonet Court)

CS (FTRU-001-R-01 - ANTI-TANK ROCKET/GRENADE RANGE, FTRU-003-R-01 - INFILTRATION/GRENADE RANGE, FTRU-004-R-01 - .22 CALIBER TARGET BUTT)

### 2014

RFI/CMS (FTRU-004-R-01 - .22 CALIBER TARGET BUTT)

### 2015

IRA (FTRU-001-R-01 - ANTI-TANK ROCKET/GRENADE RANGE)

## 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:**

**Schedule for Next Five-Year Review:** N/A

**Estimated Completion Date of MMRP at Installation (including LTM phase):** 201809

## FORT RUCKER MMRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTRU-001-R-01	ANTI-TANK ROCKET/GRENADE RANGE	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTRU-003-R-01	INFILTRATION/GRENADE RANGE	RFI/CMS						

**FORT RUCKER**  
**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 Surface Disposal Area  
(CC AOC-A1)

### Most Widespread Contaminants of Concern

Volatiles (VOC)

### Media of Concern

Soil

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

Site ID	Site Name	Action	Remedy	FY
N/A				

### Duration of CR

**Date of CR Inception:** 198906

**Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC):** 201810/201810

**Date of CR completion including Long Term Management (LTM):** 201810

## CR Contamination Assessment

### Contamination Assessment Overview

Environmental restoration activities include the IRP and 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 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 Munitions Response (MR) program have been migrated from Army Environmental Database-Compliance-related Cleanup (AEDB-CC) and given the naming convention of other 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 Compliance Restoration (CR) in AEDB-R to distinguish them from the original IR sites and IR metrics.

### Cleanup Exit Strategy

A PBA to perform an RFI was awarded in 2013 for CC AOC-A1. The draft RFI was submitted to ADEM in February 2015.

## CR Previous Studies

**Title**

**Author**

**Date**

There are no Previous Studies



**FORT RUCKER**  
**Compliance Restoration**  
**Site Descriptions**

**Site ID: CC AOC-A1**  
**Site Name: Buried Debris Behind Primary School**  
**Alias: SWMU 97**

**STATUS**

**Regulatory Driver:** RCRA  
 Contaminants of Concern: Polycyclic Aromatic Hydrocarbons (PAH)  
 Media of Concern: Soil

Phases	Start	End
RFA.....	198906.....	198910
RFI/CMS.....	201303.....	201810
<b>RIP Date:</b>	N/A	
<b>RC Date:</b>	201810	

**SITE DESCRIPTION**

This site is currently the location of Fort Rucker's Primary School. During 2012, Fort Rucker was in the preliminary stages of designing a consolidated school. This school was to be located in the general footprint of the existing primary school once demolished. In a couple of instances in the past during excavations on school grounds, items such as chunks of concrete, bricks, asbestos shingles and other cultural debris were found. Directly behind the school grounds there is an area that contains a large amount of discarded concrete, old discarded paint cans, pesticide containers, cars, refrigerators, bricks and numerous other items. In the Historical Photo Analysis Report that was produced in 1995, the site is noted as a junkyard in a 1961 aerial photograph. The existing school was constructed in the mid-1970s.

The environmental assessment that was performed for the Consolidated School Project included performance of a geophysical survey using an electromagnetic geophysical instrument, followed by an intrusive subsurface survey. The geophysical survey identified five anomalous zones for further investigation. Four additional locations were recommended for further investigation based on surface observations. The subsurface survey consisted of installing borings in these selected areas to identify any buried debris or contaminants.

Debris was observed in six out of 29 soil borings. Samples for laboratory analysis were collected from four of the borings. Concentrations for arsenic exceeded USEPA's residential screening levels (RSL) and the ADEM's preliminary screening values (PSV) for residential soil in each of the four samples. However, the concentration for arsenic was below or equal to the background concentration established for Fort Rucker. The total chromium concentration in each of the samples exceeded the RSLs and PSVs for hexavalent chromium but was several orders of magnitude below the RSLs for trivalent chromium. The analysis did not distinguish between trivalent and hexavalent chromium. Aluminum, arsenic, iron and vanadium exceeded the PSVs in each of the four samples. Multiple semi-volatile organic compounds (SVOC) were detected in the samples, five of which exceeded the RSLs and PSVs for residential soil (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene).

On Oct. 29, 2012, in accordance with Fort Rucker's corrective action permit, Section III.C.1, the subsurface survey report was submitted to the ADEM for review. In a letter dated Feb. 6, 2013, ADEM requested that Fort Rucker perform an RFI to determine the nature and extent of contamination and submit an RFI report within 180 days. A PBA for the RFI was awarded in August 2013 and the RFI Report was forwarded to ADEM in February 2015. ADEM has not yet approved the report.

This is a fully funded site.

**CLEANUP/EXIT STRATEGY**

A PBA to perform an RFI was awarded in 2013. The draft RFI was submitted to ADEM in February 2015.

## Site Closeout (No Further Action) Summary

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

## CR Schedule

**Date of CR Inception:** 198906

### **Past Phase Completion Milestones**

**1990**

RFA (CC AOC-A1 - Buried Debris Behind Primary School)

### **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 CR at Installation (including LTM phase):** 201810

## FORT RUCKER CR Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CC AOC-A1	Buried Debris Behind Primary School	RFI/CMS						

## Community Involvement

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

**Community Involvement Plan (Date Published):** 201206

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

**Reason Not Established:** The community has expressed no sufficient, sustained interest in a RAB.

**Community Interest Solicited on:** 201202

**Efforts Taken to Determine Interest**

In 2008, 2009, 2010 and 2012, notices were placed in local newspapers to solicit interest in establishing a RAB. The notices informed the public of the role of the RABs and have a 30-day window of opportunity to reply.

**Results**

No public interest was expressed at that time.

**Follow-up Procedures**

A community involvement plan was developed in 2012.

**Additional Community Involvement Information**

N/A

**Administrative Record is located at**

US Army Aviation Warfighting Center  
Building 1121  
Fort Rucker, AL  
334-255-1652

**Information Repository is located at**

The Daleville Public Library  
3088 Donnell Boulevard  
Daleville, Alabama

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

**TAPP Title:** N/A

**Potential TAPP:** N/A

