

JFHQ UT ARNG

Army Cleanup Program

Installation Action Plan

2023

CONTENTS

Acronyms.....	1
Phase Translation Table.....	3
Site Alias List.....	4
Compliance Cleanup Sites.....	5
CC_UT912-001-R-01_NDNODS_ST GEORGE ARMORY SAR.....	6
CC_UTHQ-005-R-01_NDNODS_EPHRAIM SMALL ARMS RANGE.....	7
CC_UTHQ-016-R-01_NDNODS_RICHFIELD SAR.....	8
CC_UTHQ-026-R-01 EAGLE MOUNTAIN.....	9
CC_UTHQ-024-R-01_PROVO ENCAMPMENT ARTILLERY RANGE.....	11
Site Closeout Summary.....	12
Community Involvement.....	13
Five-Year / Periodic Review Summary.....	14
Review Summary Table.....	14
ROD/DDs associated with the last Five-Year/Periodic Review.....	14
Results, Actions & Plans.....	14
Land Use Controls (LUC) Summary.....	15

ACRONYMS

Acronym	Definition
AEDB-R	Army Environmental Database - Restoration
ARNG-D	Army National Guard Directorate
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
DA	Department of Army
DD	Decision Document
DERP	Defense Environmental Restoration Program
DoD	Department of Defense
ENV	Environmental
FS	Feasibility Study
HQAES	Headquarters Army Environmental System
HRR	Historical Records Review
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MD	Munitions Debris
MEC	Munitions and Explosives of Concern
mg/kg	milligrams per kilogram
mm	millimeter
MMRP	Military Munitions Response Program
MR	Munitions Response
MRS	Munitions Response Site
MRSPP	Munitions Response Site Prioritization Protocol
NDNODS	Non-DoD Owned, Non-Operational Defense Sites
NFA	No Further Action
OMA	Operations and Maintenance Account
PA	Preliminary Assessment

Acronym	Definition
PP	Proposed Plan
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-In-Place
ROD	Record of Decision
ROE	Right of Entry
RRSE	Relative Risk Site Evaluation
SAR	Small Arms Range
SI	Site Inspection
SITLA	School of Institutional Trust Lands Administration
UTARNG	Utah Army National Guard
WBS	Work Breakdown Structure

PHASE TRANSLATION TABLE

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

SITE ALIAS LIST

WBS Element	AEDB-R Reference	Site Alias
6919A.1025	CC_UT912-001-R-01_NDNODS_ST GEORGE ARMOR	RRUT912000
6919A.1026	CC_UTHQ-005-R-01_NDNODS_EPHRAIM SMALL AR	--
6919A.1028	CC_UTHQ-016-R-01_NDNODS_RICHFIELD SAR	--
6919A.1032	CC_UTHQ-026-R-01 EAGLE MOUNTAIN	--
6919A.1033	CC_UTHQ-024-R-01_PROVO ENCAMPMENT ARTILL	--

JFHQ UT ARNG

COMPLIANCE CLEANUP SITES

CC_UT912-001-R-01_NDNODS_ST GEORGE ARMORY SAR

HQAES ID: 6919A.1025

Alias: RRUT912000

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 12/31/2037

RC Date: 12/31/2037

RC Reason: Not assigned

Program: Compliance Cleanup

Subprogram: CC

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	4/15/2007	9/15/2009
SI	7/15/2010	10/31/2012
RI/FS	1/1/2030	12/31/2035
RD	1/1/2036	1/31/2036
IRA	--	--
RA(C)	1/1/2036	12/31/2037
RA(O)	--	--
LTM	--	--

Site Narrative

The former small arms range (SAR) consists of 4.2 acres and is located west of South River Road, St. George, Washington County, Utah. The former St. George Armory SAR was used for small arms training. The area consisted of a large natural hillside which was utilized as the impact berm for firing up to 200 yards.

Site Inspection (SI) field work was conducted in 2011 and the report was made final in 2012. Total site acreage was increased in SI report from 3.4 to 4.2. Lead contaminated soils were discovered. The SI screening level for soil is 400 milligrams per kilogram (mg/kg) for total lead. Three soil samples exceeded the standard with results of 480 mg/kg, 530 mg/kg, and 790 mg/kg.

Defense Environmental Restoration Program (DERP) funding was used to complete work through the SI phase at this site. Non-DoD Owned, Non-Operational Defense Sites (NDNODS) moving forward with the Remedial Investigation/Feasibility Study (RI/FS) phase are reprogrammed into Compliance-related Cleanup (CC).

Cleanup/Exit Strategy An RI/FS will be completed at this site. Once the RI/FS is completed it is assumed a soil excavation will be required.

CC_UTHQ-005-R-01_NDNODS_EPHRAIM SMALL ARMS RANGE

HQAES ID: 6919A.1026

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 12/31/2034

RC Date: 12/31/2034

RC Reason: Not assigned

Program: Compliance Cleanup

Subprogram: CC

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	4/15/2007	9/15/2009
SI	7/15/2010	10/15/2012
RI/FS	1/1/2029	12/31/2033
RD	1/1/2034	1/31/2034
IRA	--	--
RA(C)	1/1/2034	12/31/2034
RA(O)	--	--
LTM	--	--

Site Narrative

The Ephraim SAR is 45.3 acres and is located in Sanpete County, Utah. The former Ephraim Small Arms Range was identified in 1918 Army Appropriation Bill list of National Guard Target Ranges. The Utah Army National Guard (UTARNG) units would utilize the .30-40 Krag rifle, which fired .30 caliber bullets and the Springfield Rifle for small arms training. The site included a 7-foot deep target pit and metal target posts for hoisting pop-up targets. The range was approximately 600 yards in length.

SI field work was conducted in 2011 and the report was made final in 2012. A visual survey was conducted of the northern portion of the site (the right of entry (ROE) agreement only allowed access to that portion of the site) and no munitions and explosives of concern (MEC) or munitions debris (MD) were observed. Lead contaminated soils were discovered above the screening level of 400 mg/kg for total lead. One soil sample exceeded the standard with results of 6,900 mg/kg. Therefore, further investigation for MC was recommended.

DERP funding was used to complete work through the SI phase at this site. NDNODS moving forward with the RI/FS phase are reprogrammed into CC.

Cleanup/Exit Strategy An RI/FS will be completed at this site. Once the RI/FS is completed it is assumed a soil excavation will be required.

CC_UTHQ-016-R-01_NDNODS_RICHFIELD SAR

HQAES ID: 6919A.1028

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 12/31/2035

RC Date: 12/31/2035

RC Reason: Not assigned

Program: Compliance Cleanup

Subprogram: CC

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	4/15/2007	9/15/2009
SI	7/15/2010	10/15/2012
RI/FS	1/1/2029	12/31/2033
RD	1/1/2034	1/31/2034
IRA	--	--
RA(C)	2/1/2034	12/31/2035
RA(O)	--	--
LTM	--	--

Site Narrative

The former SAR consists of 1.1 acres and is located off Civilian Conservation Road, in the city of Richfield, Sevier County, Utah. The former Richfield SAR was used from 1933 until approximately 1988. The former range was used for small arms training and consisted of targets placed at the base of a large hill. Munitions were fired from the northeast towards a large hill to the southwest.

SI field work was conducted in 2011 and the report was made final in 2012. Total site acreage was increased in the SI report from 0.5 to 1.1 acres. Lead contaminated soils were discovered. The SI screening level for soil is 400 mg/kg for total lead. One soil sample exceeded the standard with results of 810 mg/kg.

DERP funding was used to complete work through the SI phase at this site. NDNODS moving forward with the RI/FS phase are reprogrammed into CC.

Cleanup/Exit Strategy An RI/FS will be completed at this site. Once the RI/FS is completed it is assumed a soil excavation will be required.

CC_UTHQ-026-R-01 EAGLE MOUNTAIN

HQAES ID: 6919A.1032

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 12/31/2035

RC Date: 12/31/2035

RC Reason: Not assigned

Program: Compliance Cleanup

Subprogram: CC

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	3/15/2016	9/15/2017
SI	10/1/2017	4/30/2020
R/FS	9/30/2023	10/1/2028
RD	1/1/2029	12/31/2029
IRA	--	--
RA(C)	1/1/2030	12/31/2035
RA(O)	--	--
LTM	--	--

Site Narrative

In March 2016 a citizen of Eagle Mountain Utah contacted the UTARNG regarding munitions-looking fragments that her son had found, possibly using a metal detector, on a large hill near their neighborhood. The citizen photographed the fragments and those photographs were sent to the UTARNG. Based on a photographic evaluation, the fragments in the photographs are from a Mark I LE 37 millimeter (mm) projectile, similar to the model recovered at the Wood Hollow Munitions Response Site (MRS), north of Camp Williams.

The Eagle Mountain site covers an area of 211 acres. The subject property lies approximately 3.2 miles south of the Camp Williams installation and is in Utah County. It is a large 300-foot high hill that rises abruptly out of the local valley floor in a residential neighborhood (The Ranches). The hill, composed of limestone bedrock, is somewhat of a promontory that looks out over the flat valley floor to the east. The hill is spatially related to a line of hills and ridges that exist to the southwest-south. The hill itself is partially owned by the City of Eagle Mountain and partially by a private real estate company. Most of the hills to the southwest-south are owned by the State of Utah, School of Institutional Trust Lands Administration (SITLA) or Eagle Mountain, although there are some private ownership parcels on some of the hillslopes.

In May 2017, UTARNG met with the citizen to identify the approximate location where the fragments were found. An instrument-aided visual was conducted and found 31 MD fragments over a short walk. An SI and Historical Records Review (HRR) was contracted in September 2017 to further evaluate the site.

The Eagle Mountain MRS sites are designated NDNODS because they were sites exclusively used by the Army National Guard-Directorate (ARNG-D) and were never owned, leased, or otherwise possessed or used by the Department of Army (DA) or other Department of Defense (DoD) component. Work required at the Eagle Mountain sites fall under the Military Munitions Response Program (MMRP) and Operations and Maintenance Account (OMA) Program. Based on the results of the 2017 Eagle Mountain Site Visit, the area has become subject to further investigation and is requiring an HRR and SI. Within the Eagle Mountain region, two MRSs have been identified. The area of the Golden Eagle North MRS is approximately 51 acres and the area of the Golden Eagle South MRS is approximately 160 acres for a

total of approximately 211 acres. The final SI report was issued in April 2020, and recommended conducting an RI only on the Golden Eagle North 51-acre MRS. The 160-acre Golden Eagle South MRS requires no further action. During the FY23 Roll-Forward period, a contract was awarded for the RI/FS at the Golden Eagle North MRS.

Cleanup/Exit Strategy An RI/FS will be performed on the 51-acre Golden Eagle North MRS. MEC surface and subsurface clearance is the expected remedy for this site.

CC_UTHQ-024-R-01_PROVO ENCAMPMENT ARTILLERY RANGE

HQAES ID: 6919A.1033

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 12/31/2031

RC Date: 12/31/2031

RC Reason: Not assigned

Program: Compliance Cleanup

Subprogram: CC

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	4/30/2007	9/30/2009
SI	7/31/2010	10/15/2019
RI/FS	1/1/2026	12/31/2031
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

Provo Encampment Artillery Range is located on the eastern shore of Utah Lake and within the Utah Lake State Park, in the city of Provo, Utah County, Utah. The site consists of a single 5,322.5-acre MRS located in the northeast quarter of Section 24, Township 3 North, Range 1 West of the Salt Lake Principal Meridian. The artillery range within the encampment at Provo was utilized by units of the UTARNG from approximately 1903 through approximately 1904. The former artillery range is located within property owned by the State of Utah.

SI field work for the entire MRS was conducted in 2011 and an SI report was completed in 2012. Total site acreage was corrected and increased in the 2011 SI report from 954.7 to 5,322.5. The SI report recommended splitting out site acreage that required no further action (NFA) beyond the SI so those 62.9 acres are now identified with the new site UTHQ-024-R-02. The remaining 5,259.6 acres are associated with site UTHQ-024-R-01. An SI for the 5,259.6 acres associated with this MRS was completed in FY19 and recommended an RI/FS.

Cleanup/Exit Strategy The next course of action is to complete the RI, FS, proposed plan (PP) and the decision document (DD) under the RI/FS phase. These actions will determine the strategy to achieve site closure. The future costs cannot be estimated beyond the investigation phase.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date
6919A.1001	UTHQ-001-R-01_NDNODS Camp Dinosaur LTA	9/30/2012
6919A.1002	UTHQ-003-R-01_NDNODS Co-Op Creek LTA	9/30/2012
6919A.1003	UTHQ-004-R-01_NDNODS Dutch John Airport	9/30/2012
6919A.1004	UTHQ-011-R-01_NDNODS Mud Creek/Dock Flat	9/30/2012
6919A.1005	UTHQ-012-R-01_NDNODS Mueller Park LTA	9/30/2012
6919A.1006	UTHQ-014-R-01_NDNODS Ogden Target Range	9/30/2012
6919A.1007	UTHQ-017-R-01_NDNODS Rocky Beach LTA	9/30/2012
6919A.1008	UTHQ-021-R-01_NDNODS Strawberry River Va	9/30/2012
6919A.1009	UTHQ-023-R-01_NDNODS St. George LTA	9/30/2012
6919A.1010	UTHQ-019-R-01_NDNODS Winchester Hills	9/30/2012
6919A.1011	UTHQ-020-R-01_NDNODS St. George Sunbrook	9/30/2015
6919A.1012	UTHQ-002-R-01_NDNODS Cedar City Target R	10/31/2012
6919A.1013	UTHQ-005-R-01_NDNODS Ephraim Small Arms	9/30/2015
6919A.1014	UTHQ-006-R-01_NDNODS Fillmore M-31 Range	10/31/2012
6919A.1015	UTHQ-007-R-01_NDNODS Fillmore M-31 Range	9/30/2015
6919A.1016	UTHQ-008-R-01_NDNODS Manti Small Arms Ra	9/30/2012
6919A.1017	UTHQ-013-R-01_NDNODS Nephi Small Arms Ra	10/30/2012
6919A.1018	UTHQ-016-R-01_NDNODS Richfield Small Arm	10/30/2012
6919A.1020	UT912-001-R-01_NDNODS St. George Armory	10/15/2012
6919A.1021	UTHQ-024-R-01_Provo Encampment Artillery	10/15/2019
6919A.1022	RRUT000019_NDNODS WINCHESTER HILLS	10/15/2012
6919A.1023	RRUT000022_NDNODS WINCHESTER HILLS UXO S	10/15/2012
6919A.1024	UTHQ-024-R-02_PROVO ENCAMPMENT AR-LAND	10/15/2012
6919A.1034	CC UTHQ-025-R-01_NDNODS WN WTH REMAINDER	11/8/2018
6919A.1039	CC_UTHQ-022-R-01_NDNODS_WINCH HILLS UXO	6/5/2018
6919A.1027	CC_UTHQ-008-R-01_NDNODS_MANTI SAR	4/28/2022
6919A.1029	CC_UTHQ-019-R-01_NDNODS_WINCHESTER HILLS	12/17/2021
6919A.1030	CC_UTHQ-025-R-01_NDNODS WINCHESTER	12/17/2021

COMMUNITY INVOLVEMENT

Technical Review Committee (TRC) Establishment Date:	N/A
Community Involvement Plan (Date Published):	201502
Restoration Advisory Board (RAB) Establishment Date:	None. The community has expressed no sufficient, sustained interest in a RAB.
RAB Adjournment Date:	N/A
RAB Adjournment Reason:	N/A
Additional Community Involvement:	A RAB ad was placed in the papers on Dec. 17, 2017.
Administrative Record is located at:	St. George Branch Washington County Library 88 West 100 South St. George, UT 84770
Information Repository is located at:	St. George Branch Washington County Library 88 West 100 South St. George, UT 84770
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Review Summary Table

None

ROD/DDs associated with the last Five-Year/Periodic Review

None

Results, Actions & Plans

None

LAND USE CONTROLS (LUC) SUMMARY

None

E J GARN ARMY AVIATION SUPPORT FACILITY

Army Cleanup Program

Installation Action Plan

2023

CONTENTS

Acronyms.....	1
Phase Translation Table.....	3
Site Alias List.....	4
Installation Restoration Program Sites.....	5
UT2020-01-P_WEST JORDAN AASF PFAS CONTAM.....	6
Site Closeout Summary.....	7
Community Involvement	8
Five-Year / Periodic Review Summary.....	9
Review Summary Table	9
ROD/DDs associated with the last Five-Year/Periodic Review.....	9
Results, Actions & Plans	9
Land Use Controls (LUC) Summary.....	10

ACRONYMS

Acronym	Definition
AASF	Army Aviation Support Facility
AEDB-R	Army Environmental Database - Restoration
AOI	Area of Interest
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
DD	Decision Document
DERP	Defense Environmental Restoration Program
DoD	Department of Defense
ENV	Environmental
FS	Feasibility Study
HQAES	Headquarters Army Environmental System
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MRSPP	Munitions Response Site Prioritization Protocol
PA	Preliminary Assessment
PFAS	Per- and Polyfluoroalkyl Substances
PFHxS	Perfluorohexanesulfonic acid
PFNA	Perfluorononanoic Acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
RAB	Restoration Advisory Board
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design

Acronym	Definition
RI	Remedial Investigation
RIP	Remedy-In-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
SI	Site Inspection
SL	Screening Level
TAPP	Technical Assistance for Public Participation
TRC	Technical Review Committee
WBS	Work Breakdown Structure

PHASE TRANSLATION TABLE

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

SITE ALIAS LIST

WBS Element	AEDB-R Reference	Site Alias
5204A.1002	UT2020-01-P_WEST JORDAN AASF PFAS CONTAM	--

E J GARN ARMY AVIATION SUPPORT FACILITY

INSTALLATION RESTORATION PROGRAM SITES

UT2020-01-P_WEST JORDAN AASF PFAS CONTAM

HQAES ID: 5204A.1002

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 9/15/2030

RC Date: 9/15/2030

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	8/11/2017	5/15/2020
SI	10/9/2019	9/30/2023
RI/FS	9/15/2023	9/15/2030
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

A Preliminary Assessment (PA) was completed at E. J. Garn Army Aviation Support Facility (AASF) to assess potential per- and poly-fluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. Three Areas of Interest (AOIs) related to potential PFAS releases were identified at the E. J. Garn AASF during the PA. Based on the preliminary Conceptual Site Models developed for the AOIs, there is potential for receptors to be exposed to PFAS contamination in soil, groundwater, surface water, and sediment at the AOIs.

A Site Inspection (SI) was conducted, with the final SI report issued in fiscal year (FY) 23, which concluded that a remedial investigation (RI) is warranted at:

- AOI 1 – North Hangar and Dry Well; and
- AOI 2 – Hangar/Ramp Area and Tent Storage Area.

At AOI 1, perfluorooctanesulfonic acid (PFOS) was detected in both groundwater and soil above respective screening levels (SLs). At AOI 2, PFOS, PFOA, and perfluorohexanesulfonic acid (PFHxS) were detected in groundwater samples at concentrations above SLs.

The subject site was tracked as 5204A.1001 under the Compliance-related Cleanup (CC) program. In FY23, this site was determined to be eligible under the Defense Environmental Restoration Program (DERP) and the RI/Feasibility Study (FS) will proceed under DERP. The RI was funded under DERP in FY23, and the FS will be awarded in the future.

Cleanup/Exit Strategy An RI will be conducted at AOI 1 and AOI 2. Future actions will be determined by the results of the RI.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date
5204A.1001	CCUT2020-01-P_WEST JORDAN AASF PFAS CONT	4/5/2023

COMMUNITY INVOLVEMENT

Technical Review Committee (TRC) Establishment Date:	N/A
Community Involvement Plan (Date Published):	TBD
Restoration Advisory Board (RAB) Establishment Date:	N/A
RAB Adjournment Date:	N/A
RAB Adjournment Reason:	N/A
Additional Community Involvement:	Community Involvement Plan, Administrative Record and Information Repository will all be developed as the project progresses.
Administrative Record is located at:	TBD
Information Repository is located at:	TBD
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Review Summary Table

None

ROD/DDs associated with the last Five-Year/Periodic Review

None

Results, Actions & Plans

None

LAND USE CONTROLS (LUC) SUMMARY

None

MTA-L CAMP WILLIAMS WEST FED

Army Cleanup Program

Installation Action Plan

2023

CONTENTS

Acronyms.....	1
Phase Translation Table.....	3
Site Alias List.....	4
Military Munitions Response Program Sites.....	5
WILLI-004-R-01_ARTILLERY IMPACT AREA BUFFER ZONE	6
WILLI-002-R-01_WOOD HOLLOW TRAINING AREA	7
Site Closeout Summary.....	8
Community Involvement	9
Five-Year / Periodic Review Summary.....	10
Review Summary Table	10
ROD/DDs associated with the last Five-Year/Periodic Review.....	10
Results, Actions & Plans	10
Land Use Controls (LUC) Summary.....	11

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BLM	Bureau of Land Management
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
DD	Decision Document
ENV	Environmental
FS	Feasibility Study
FY	Fiscal Year
HE	High Explosive
HQAES	Headquarters Army Environmental System
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
mm	millimeter
MR	Munitions Response
MRS	Munitions Response Site
MRSPP	Munitions Response Site Prioritization Protocol
PA	Preliminary Assessment
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-In-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation

Acronym	Definition
SI	Site Inspection
TCRA	Time-Critical Removal Action
USAEC	U. S. Army Environmental Command
UST	Underground Storage Tank
WBS	Work Breakdown Structure

PHASE TRANSLATION TABLE

HQAES Phase ID	CERCLA Phase	RCRA Phase	RCRA UST Phase
.01	Preliminary Assessment (PA)	RCRA Facility Assessment (RFA)	Initial Site Characterization (ISC)
.02	Site Inspection (SI)	Confirmation Sampling (CS)	Investigation (INV)
.03	Remedial Investigation/ Feasibility Study (RI/FS)	RCRA Facility Investigation/Corrective Measures Study (RFI/CMS)	Corrective Action Plan (CAP)
.04	Remedial Design (RD)	Design (DES)	Design (DES)
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.06	Remedial Action (Construction) (RA(C))	Corrective Measures Implementation (Construction) (CMI(C))	Implementation (Construction) (IMP(C))
.07	Remedial Action (Operation) (RA(O))	Corrective Measures Implementation (Operation) (CMI(O))	Implementation (Operation) (IMP(O))
.08	Long-Term Management (LTM)	Long-Term Management (LTM)	Long-Term Management (LTM)

SITE ALIAS LIST

WBS Element	AEDB-R Reference	Site Alias
49911.1004	WILLI-004-R-01_ARTILLERY IMPACT AREA BUF	--
49911.1006	WILLI-002-R-01_WOOD HOLLOW TRAINING AREA	--

MTA-L CAMP WILLIAMS WEST FED

MILITARY MUNITIONS RESPONSE PROGRAM SITES

WILLI-004-R-01_ARTILLERY IMPACT AREA BUFFER ZONE

HQAES ID: 49911.1004

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 10/15/2016

RC Date: 10/15/2016

RC Reason: Other

Program: ENV Restoration, Army

Subprogram: MR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	6/10/2003	11/12/2003
SI	6/30/2005	8/31/2008
RI/FS	3/31/2009	3/31/2013
RD	4/30/2013	10/15/2016
IRA	1/31/2011	1/15/2012
RA(C)	3/15/2014	10/15/2016
RA(O)	--	--
LTM	11/15/2016	9/30/2053

Site Narrative

This is a transferred range of 700 acres; part is owned by the U.S. Bureau of Land Management (BLM) and part by private owners. Three maps of the installation (a 1951 map, a 1985 map, and a 1982 map revised in 1989), show the artillery impact area buffer zone in the western part of the installation extending north of the installation boundary. Munitions of Concern for this munitions response site (MRS) are 155 millimeter (mm) and 8-inch high explosive (HE) rounds.

The Final Site Inspection (SI) was issued in August 2008. The report increased the area of the site to include a portion of the Rose Canyon Training Area that overlaid the MRS.

The remedial investigation (RI) was contracted in April 2009. The site boundaries were recommended for modification to regulators to cover the expanded area of contamination, estimated to include 700 acres, based on the RI results.

A Time-Critical Removal Action (TCRA) was conducted on 166 acres at the site in 2011.

The RI/FS phase was completed and the Decision Document (DD) was signed in July 2016. The remedial action, a surface sweep of the remainder of the MRS, has been completed. Education awareness was the Land Use Control (LUC) implemented following the remedial action. The U.S. Army Environmental Command (USAEC) has contracted for the first installation-wide Camp Williams five-year review in fiscal year (FY) 23.

Cleanup/Exit Strategy LTM consisting of five-year reviews will be conducted indefinitely.

WILLI-002-R-01_WOOD HOLLOW TRAINING AREA

HQAES ID: 49911.1006

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 9/15/2018

RC Date: 9/15/2018

RC Reason: All Required Cleanup(s) Completed

Program: ENV Restoration, Army

Subprogram: MR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	6/10/2003	11/12/2003
SI	6/30/2005	8/31/2008
R/FS	3/31/2009	10/15/2017
RD	4/30/2013	10/15/2017
IRA	1/15/2011	1/15/2012
RA(C)	4/30/2014	9/15/2018
RA(O)	--	--
LTM	10/15/2018	9/30/2053

Site Narrative

This is a transferred range of 232 acres. The site is located north of the installation and is owned by private owners. From approximately 1930 to 1945 it was used as an artillery impact area. According to the Environmental Office at Camp Williams, three intact French 75 mm artillery rounds were found during a walkover of the area following a July 2001 fire. This area is currently undeveloped land, though it is being encroached upon by a rock and gravel extraction operation. The munitions of concern for this MRS are 37mm and 75mm shrapnel and HE rounds.

A Final SI was completed in August 2008. A TCRA was conducted on 32 acres at the site in November and December 2011 to support ongoing mine expansion activities. Subsurface removal to 12 inches depth was performed.

Cleanup/Exit Strategy LTM consisting of five-year reviews will be conducted indefinitely.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date
49911.1001	WILLI-007-R-01_ROSE CANYON TRAINING AREA	8/31/2012
49911.1002	WILLI-006-R-01_CANTONMENT FIRING IMPACT	8/31/2008
49911.1003	WILLI-005-R-01_CANTONMENT AREA DRILL ARE	8/31/2008
49911.1005	WILLI-003-R-01_SOUTHEAST SIMULATED ATTAC	8/31/2012
49911.1007	WILLI-001-R-01_KD RANGE	8/31/2008
49911.1008	WILLI-008-R-01_Southwest Area	8/31/2012
49911.1009	WILLI-009-R-01_Southeast Area	2/28/2013
49911.1010	CCCWCL9001_Camp Williams Cantonment Land	12/31/2006

COMMUNITY INVOLVEMENT

Technical Review Committee (TRC) Establishment Date:	N/A
Community Involvement Plan (Date Published):	200910
Restoration Advisory Board (RAB) Establishment Date:	200911
RAB Adjournment Date:	NA
RAB Adjournment Reason:	NA
Additional Community Involvement:	A RAB has been established. Meetings are held semi-annually.
Administrative Record is located at:	Utah National Guard 12953 S. Minuteman Dr. Draper, UT 84020
Information Repository is located at:	Herriman Library 5380 W. Main St. Herriman, UT 84096
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Review Summary Table

Status	Start Date	End Date	End FY
UNDERWAY	3/31/2023	6/1/2024	2024
PLANNED	3/31/2028	6/1/2029	2029

ROD/DDs associated with the last Five-Year/Periodic Review

None

Results, Actions & Plans

None

LAND USE CONTROLS (LUC) SUMMARY

None

SUSTAINED AIRBORNE TNG FAC

Army Cleanup Program

Installation Action Plan

2023

CONTENTS

Acronyms.....	1
Phase Translation Table.....	3
Site Alias List.....	4
Installation Restoration Program Sites.....	5
UT2020-02-P_SUSTAINED AIRBRNE TF PFAS.....	6
Site Closeout Summary.....	7
Community Involvement	8
Five-Year / Periodic Review Summary.....	9
Review Summary Table	9
ROD/DDs associated with the last Five-Year/Periodic Review.....	9
Results, Actions & Plans	9
Land Use Controls (LUC) Summary.....	10

ACRONYMS

Acronym	Definition
AEDB-R	Army Environmental Database - Restoration
AOI	Area of Interest
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
DD	Decision Document
DERP	Defense Environmental Restoration Program
DoD	Department of Defense
ENV	Environmental
FS	Feasibility Study
HQAES	Headquarters Army Environmental System
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
µg/kg	micrograms per kilogram
MRSPP	Munitions Response Site Prioritization Protocol
ng/L	nanograms/Liter
PA	Preliminary Assessment
PFAS	Per- and Polyfluoroalkyl Substances
PFH _x S	Perfluorohexanesulfonic acid
PFNA	Perfluorononanoic Acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
RAB	Restoration Advisory Board
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RCRA	Resource Conservation and Recovery Act

Acronym	Definition
RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-In-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
SATF	Sustained Airborne Training Facility
SI	Site Inspection
SL	Screening Level
TAPP	Technical Assistance for Public Participation
TRC	Technical Review Committee
WBS	Work Breakdown Structure

PHASE TRANSLATION TABLE

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

SITE ALIAS LIST

WBS Element	AEDB-R Reference	Site Alias
49B17.1002	UT2020-02-P_SUSTAINED AIRBRNE TF PFAS	--

SUSTAINED AIRBORNE TNG FAC

INSTALLATION RESTORATION PROGRAM SITES

UT2020-02-P_SUSTAINED AIRBRNE TF PFAS

HQAES ID: 49B17.1002

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 9/15/2030

RC Date: 9/15/2030

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	8/11/2017	5/15/2020
SI	5/10/2020	9/30/2023
RI/FS	9/15/2023	9/15/2030
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

The Sustained Airborne Training Facility (SATF) occupies approximately 1.3 acres on the southeast side of the Salt Lake City International Airport. The facility consists of an approximately 15,135 square foot building used to support various training missions. A Preliminary Assessment (PA) was completed at SATF to assess potential per- and poly-fluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. One Area of Interest (AOI) related to potential PFAS releases was identified at the Sustained Airborne Training Facility during the PA. Based on the preliminary Conceptual Site Model developed for the AOI, there is potential for receptors to be exposed to PFAS contamination in soil, sediment, and groundwater at the AOI.

A Site Inspection (SI) was conducted and the final SI report was issued in fiscal year (FY) 23. The SI concluded that a remedial investigation (RI) is warranted at AOI 1 – 2014 Fire Suppression System Test and Former Fire Station. At AOI1, in surface soil, PFOS was detected exceeding its screening level (SL) of 13 micrograms per kilogram ($\mu\text{g}/\text{kg}$) at with a maximum concentration of 32.2 $\mu\text{g}/\text{kg}$. In groundwater, PFOA, PFOS, PFBS, PFNA, and PFHxS exceeded their individual SLs of 6 nanograms/Liter (ng/L) for PFOA, 4 ng/L for PFOS, 601 ng/L for PFBS, 39 ng/L for PFHxS, and 6 ng/L for PFNA. The maximum detected concentration of PFOA was 41,600 ng/L, PFOS was 4,300 ng/L, PFBS was 1,650 ng/L, PFHxS was 17,100 ng/L, and PFNA was 31.0 ng/L.

The subject site was tracked as 49B17.1001 under the Compliance-related Cleanup (CC) program. In FY23, this site was determined to be eligible under the Defense Environmental Restoration Program (DERP) and the RI/Feasibility Study (FS) will proceed under DERP. The RI was funded under DERP in FY23, and the FS will be awarded in the future.

Cleanup/Exit Strategy An RI/FS will be conducted at AOI 1. Future actions will be determined by the results of the RI.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date
49B17.1001	CCUT2020-02-P_SUSTAINED AIRBRNE TF PFAS	4/25/2023

COMMUNITY INVOLVEMENT

Technical Review Committee (TRC) Establishment Date:	N/A
Community Involvement Plan (Date Published):	TBD
Restoration Advisory Board (RAB) Establishment Date:	N/A
RAB Adjournment Date:	N/A
RAB Adjournment Reason:	N/A
Additional Community Involvement:	Community Involvement Plan, Administrative Record and Information Repository will all be developed as the project progresses.
Administrative Record is located at:	TBD
Information Repository is located at:	TBD
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Review Summary Table

None

ROD/DDs associated with the last Five-Year/Periodic Review

None

Results, Actions & Plans

None

LAND USE CONTROLS (LUC) SUMMARY

None

WENDOVER AIRPORT

Army Cleanup Program

Installation Action Plan

2023

CONTENTS

Acronyms.....	1
Phase Translation Table.....	3
Site Alias List.....	4
Installation Restoration Sites	5
UT2020-03-P_WENDOVER AIRPORT PFAS CONTAM.....	6
Site Closeout Summary.....	7
Community Involvement	8
Five-Year / Periodic Review Summary.....	9
Review Summary Table	9
ROD/DDs associated with the last Five-Year/Periodic Review.....	9
Results, Actions & Plans	9
Land Use Controls (LUC) Summary.....	10

ACRONYMS

Acronym	Definition
AASF	Army Aviation Support Facility
AEDB-R	Army Environmental Database - Restoration
AOI	Area of Interest
ARNG	Army National Guard
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
DD	Decision Document
DERP	Defense Environmental Restoration Program
DoD	Department of Defense
ENV	Environmental
FS	Feasibility Study
FY	Fiscal Year
HQAES	Headquarters Army Environmental System
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
µg/kg	micrograms/kilogram
MRSP	Munitions Response Site Prioritization Protocol
ng/L	nanograms/Liter
PA	Preliminary Assessment
PFAS	Per- and Polyfluoroalkyl Substances
PFHxS	Perfluorohexanesulfonic acid
PFNA	Perfluorononanoic Acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
RAB	Restoration Advisory Board
RA(C)	Remedial Action (Construction)

Acronym	Definition
RA(O)	Remedial Action (Operations)
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-In-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
SI	Site Inspection
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TAPP	Technical Assistance for Public Participation
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.04	Remedial Design (RD)	Design (DES)	Design (DES)
.05	Interim Remedial Action (IRA)	Interim Measure (IM)	Interim Remedial Action (IRA)
.06	Remedial Action (Construction) (RA(C))	Corrective Measures Implementation (Construction) (CMI(C))	Implementation (Construction) (IMP(C))
.07	Remedial Action (Operation) (RA(O))	Corrective Measures Implementation (Operation) (CMI(O))	Implementation (Operation) (IMP(O))
.08	Long-Term Management (LTM)	Long-Term Management (LTM)	Long-Term Management (LTM)

SITE ALIAS LIST

WBS Element	AEDB-R Reference	Site Alias
49B49.1002	UT2020-03-P_WENDOVER AIRPORT PFAS CONTAM	- -

WENDOVER AIRPORT

INSTALLATION RESTORATION SITES

UT2020-03-P_WENDOVER AIRPORT PFAS CONTAM

HQAES ID: 49B49.1002

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 9/29/2034

RC Date: 9/29/2034

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	8/11/2017	5/15/2020
SI	5/10/2020	9/30/2023
RI/FS	9/30/2027	9/29/2034
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

Building 835 is located within the Wendover Airport just east of the border between Utah and Nevada. The Wendover Airport has a history of military use since World War II. Building 835 was leased from the Wendover Airport Authority by the Utah Army National Guard (ARNG) in 2014 and remodeled to its current state for use in support of drone operations. A Preliminary Assessment (PA) was completed in July 2019 at Wendover Airport to assess potential per- and poly-fluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. The PA identified one Area of Interest (AOI) where PFAS-containing materials may have been used, stored, disposed, or released historically. A Site Inspection (SI) was performed in November 2021 and field activities included the collection of soil and groundwater samples.

In surface soil at AOI1, PFOS exceeded the screening level (SL) of 13 micrograms/kilogram ($\mu\text{g}/\text{kg}$) with a maximum concentration of 13.7 $\mu\text{g}/\text{kg}$. In groundwater at AOI1, perfluorooctanesulfonic acid (PFOS) and perfluorohexanesulfonic acid (PFHxS) in groundwater exceeded the SLs of 4 nanograms/Liter (ng/L) for PFOS and 39 ng/L for PFNA. The maximum concentrations detected in groundwater at AOI 1 were PFOS at 39.8 ng/L and PFHxS at 68 ng/L . The final SI determined that further investigation of AOI 1 was required in a remedial investigation (RI).

The subject site was tracked as 49B49.1001 under the Compliance-related Cleanup (CC) program. In fiscal year (FY) 23, this site was determined to be eligible under the Defense Environmental Restoration Program (DERP) and the RI/Feasibility Study (FS) will proceed under DERP.

Cleanup/Exit Strategy An RI/FS will be conducted at AOI 1. Future actions will be determined by the results of the RI.

SITE CLOSEOUT SUMMARY

None

COMMUNITY INVOLVEMENT

Technical Review Committee (TRC) Establishment Date:	N/A
Community Involvement Plan (Date Published):	TBD
Restoration Advisory Board (RAB) Establishment Date:	N/A
RAB Adjournment Date:	N/A
RAB Adjournment Reason:	N/A
Additional Community Involvement:	Community Involvement Plan, Administrative Record and Information Repository will all be developed as the project progresses.
Administrative Record is located at:	TBD
Information Repository is located at:	TBD
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Review Summary Table

None

ROD/DDs associated with the last Five-Year/Periodic Review

None

Results, Actions & Plans

None

LAND USE CONTROLS (LUC) SUMMARY

None