JFHQ SD ARNG

Army Cleanup Program

Installation Action Plan

2023

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ACRONYMS

Acronym	Definition
AEDB-R	Army Environmental Database - Restoration
AGC	Advanced Geophysical Classification
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CFA	Controlled Fire Area
DD	Decision Document
DERP	Defense Environmental Restoration Program
ENV	Environmental
FS	Feasibility Study
FTA	Fire Training Area
HQAES	Headquarters Army Environmental System
IR	Installation Restoration
IRA	Interim Remedial Action
LAW	Light Anti-Tank Weapon
LTM	Long-Term Management
LUC	Land Use Control
МС	Munitions Constituents
MD	Munitions Debris
MEC	Munitions and Explosives of Concern
mg/kg	Milligrams Per Kilogram
mm	Millimeter
MR	Munitions Response
MRS	Munitions Response Site
MRSPP	Munitions Response Site Prioritization Protocol
NDNODS	Non-Department of Defense Owned, Non-Operational Defense Sites
PA	Preliminary Assessment
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete

Acronym	Definition
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
SAW	Squad Automatic Weapon
SDARNG	South Dakota Army National Guard
SDZ	Surface Danger Zone
SI	Site Inspection
USEPA	US Environmental Protection Agency
UST	Underground Storage Tank
UU/UE	Unlimited Use/Unrestricted Exposure
UXO	Unexploded Ordnance
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
6916A.1017	CC-SDHQ-002-R-01_NDNODS Deadman Canyon	RRSD000002
6916A.1020	CC-SDHQ-011-R-01_NDNODS Redfield Control	RRSD000011
6916A.1021	CC-SDHQ-017-R-01_NDNODS West Camp Rapid	
6916A.1022	CC-SDHQ-010-R-01_NDNODS Range Road Train	RRSD000010

JFHQ SD ARNG

COMPLIANCE CLEANUP SITES

CC-SDHQ-002-R-01_NDNODS Deadman Canyon Pistol Range

HQAES ID: 6916A.1017

Alias: RRSD000002

Regulatory Driver: CERCLA

RRSE: Not assigned MRSPP: Not assigned RIP Date: 12/31/2037

RC Date: 12/31/2037

RC Reason: Not assigned

Program: Compliance Cleanup

Subprogram: CC

Phases	Start	End
PA	4/30/2007	9/30/2009
SI	7/31/2010	9/30/2012
RI/FS	1/1/2031	12/31/2035
RD	1/1/2036	2/1/2036
IRA		
RA(C)	2/1/2036	12/31/2037
RA(O)		
LTM		

Site Narrative

The Deadman Canyon Training Area is a 3.2-acre munitions response site (MRS) located within the Black Hills National Forest in Deadman Canyon, Mead County, South Dakota. The MRS consists of the Deadman Canyon Pistol Range and the Rifle Range. The former 0.45 caliber pistol and rifle ranges (MRS RRSD000002) were used for qualification training during the 1950s and 1960s. The pistol and rifle range firing lines are located parallel to Deadman Creek, an ephemeral stream. The pistol range impact berm is located approximately 25 yards north of the creek at the base of a steep slope on the floor of the canyon. The rifle range is oriented south to north from the creek toward the hill side located along the northern boundary (the hill is several hundred feet high). The impact berm is located at the base of a steep slope along the floor of the canyon.

Site Inspection (SI) field work was conducted in 2011 and the report was made final in 2012. As part of the SI, a visual survey along two bias-located transects was performed, along with collection of soil samples. The site Preliminary Assessment (PA) acreage was corrected and increased in the SI report from two (2) acres to 3.2 acres. SI sampling results indicated that lead was detected at a concentration of 1,900 milligrams per kilogram (mg/kg) in soil, above the US Environmental Protection Agency (USEPA) and South Dakota soil screening criterion of 400 mg/kg (from the target berm at the pistol range). Additional investigation in the form of a Remedial Investigation (RI) was recommended for munitions constituents (MC) at the entire MRS.

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

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

CC-SDHQ-011-R-01_NDNODS Redfield Controlled Fire Training Area

HQAES ID: 6916A.1020

Alias: RRSD000011

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 12/31/2028

RC Date: 12/31/2028

RC Reason: Not assigned

Program: Compliance Cleanup

Subprogram: CC

Phases	Start	End
PA	4/30/2007	9/30/2009
SI	7/31/2010	9/30/2012
RI/FS	3/30/2016	4/20/2022
RD	1/1/2025	1/31/2025
IRA		
RA(C)	2/1/2025	12/31/2028
RA(O)		
LTM		

Site Narrative

The Redfield Controlled Fire Area (CFA) MRS North is a 44-acre MRS, previously part of Redfield Controlled Fire Training Area (FTA) MRS located in Spink County, South Dakota. The Redfield Controlled FTA was utilized by Battery B, 2nd Battalion of the 147th Field Artillery Units stationed at Redfield and Miller, South Dakota from 1976 to 2000. The units trained using the M31 artillery trainer. The M31 artillery trainer is a bolt-action, single-shot, rifled barrel coupled to a tripod assembly. The artillery trainer fires the 14.5 millimeter (mm) M31 practice artillery round while simulating the firing of howitzer systems for 75, 105, and 155 mm artillery.

The M31 practice artillery round contains fuzing and a pyrotechnic mixture that upon impact emits an audible report, a small flash, and a dark gray cloud of smoke. The normal firing distances for the M31 practice artillery round is between 200 and 700 yards. Additionally, during the site visit, several munitions and explosives of concern (MEC) items were discovered in the impact area along with munitions debris (MD), including approximately 12 expended M31 rounds and four M73 sub-caliber light anti-tank weapon (LAW) rounds. Of the four M73 munitions, two were determined to be Unexploded Ordnance (UXO). The property owner was notified of the presence of UXO and response requirements were explained by the contractor's Senior Technical MEC Specialist.

The property owner contacted local law enforcement who in-turn contacted the Explosive Ordnance Detachment at Ellsworth Air Force Base in Rapid City, South Dakota. The ordnance was rendered safe in place in October 2007. This was confirmed by South Dakota Army National Guard (SDARNG) Environmental personnel on Dec. 4, 2007. Based on the type of ordnance identified at this location, it was determined that the UXO density is medium.

The SI field work was conducted in 2011 and the report was made final in 2012. Site acreage was corrected and decreased in the SI report from 68 to 47.6 acres. Previous recoveries of MEC and MD at this MRS and the instrument-aided visual survey identified expended M73 practice rocket at south central

portion of range, near the target area. All soil and surface water samples were below regulatory limits. DERP funding was used to complete work through the SI at this site. NDNODS sites moving forward with the RI/FS phase are reprogrammed into CC. The RI was performed on 130.55 acres, and the RI report was completed in August 2020.

The RI confirmed the presence of MEC and MD within an approximately 44.00-acre area on Parcels 11837 and 11753. The RI recommended that the 150.55-acre MRS be divided into two. The Redfield CFA MRS North (CC SDHQ-011-R-01) is the 44.00-acre MRS that is the subject of this narrative, and Redfield CFA MRS South (CC SDHQ-011-R-02), which is 86.55 acres where no physical evidence of MEC, MD, and/or military activity was found during the RI. The RI recommended that a FS be conducted on the Redfield CFA MRS North, which was completed in March 2021.

The March 2022 Final Record of Decision (ROD) was signed in April 2022. The preferred remedial alternative is Alternative 6 - MEC Clearance using Advanced Geophysical Classification (AGC) over entire MRS to achieve unlimited use/unrestricted exposure (UU/UE).

Cleanup Strategy: The restoration strategy is to complete a MEC removal action to achieve UU/UE, with costs expected in the Remedial Design (RD) and Remedial Action (Construction) [RA(C)] phases.

CC-SDHQ-017-R-01_NDNODS West Camp Rapid

HQAES ID: 6916A.1021

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned
MRSPP: Not assigned
RIP Date: 12/31/2036

RC Date: 12/31/2036

RC Reason: Not assigned

Program: Compliance Cleanup

Subprogram: CC

Phases	Start	End
PA	12/31/2010	2/28/2011
SI	3/30/2011	9/30/2012
RI/FS	1/1/2030	12/31/2034
RD	1/1/2035	1/31/2035
IRA		
RA(C)	1/1/2035	12/31/2036
RA(O)		
LTM		

Site Narrative

The NDNODS West Camp Rapid 14.6-acre 300m Rifle Range was designed and constructed in 1985. It was a baffled, non-standard range. This range consisted of ten (10) firing lanes for individual weapons up to the M249 Squad Automatic Weapon (SAW), and five (5) firing lanes for crew served weapons. Ammunition approved for this range included 5.56 mm, 7.62 mm, .50 caliber (plastic). No night fire or tracers were allowed.

West Camp Rapid is a state property owned and operated by the SDARNG. The 300m Rifle Range was closed by the SDARNG leadership on 2 December 2010 because the probability of a standard 5.56 mm ball (M855) ammunition exiting the designed surface danger zone (SDZ) was no longer an acceptable risk. Mitigation of the risk would only provide a partial solution and was cost prohibitive. The SDZ was impacted by encroachment.

A SI was performed and an SI report was completed in July 2012. The SI inspection indicated that lead concentrations in soil at three composite soil locations was above USEPA and South Dakota screening criteria, and further investigation was recommended to characterize the extent of MC.

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

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

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CC-SDHQ-010-R-01_NDNODS Range Road Training Area

HQAES ID: 6916A.1022

Alias: RRSD000010

Regulatory Driver: CERCLA

RRSE: Not assigned MRSPP: Not assigned RIP Date: 12/31/2036

RC Date: 12/31/2036

RC Reason: Not assigned

Program: Compliance Cleanup

Subprogram: CC

Phases	Start	End
PA	4/30/2007	9/30/2009
SI	7/30/2010	9/30/2012
RI/FS	1/1/2030	12/31/2034
RD	1/1/2035	1/31/2035
IRA		
RA(C)	1/1/2035	12/31/2036
RA(O)		
LTM		

Site Narrative

The 10.6-acre Range Road Training Area is transferred and is located in Hughes County, South Dakota. The range was used by units of the SDARNG from 1966 to 1998. The site's primary use was likely for training and qualifying SDARNG personnel on small arms. Multiple linear firing lines and an impact berm are positioned east to west and increase in elevation towards the north. Range firing occurred from south to north with the maximum firing distance of 500 yards. Debris discovered in the northern portion of the range indicates possible electrical pop-up targeting and scoring systems for small arms training. Additionally, information discovered during an archive review at the 147th Field Artillery Brigade Headquarters depict SDARNG personnel training on the Range Road Training Area using M16 rifles, M203 (40mm grenade launcher), and the LAW sub-caliber practice rockets. The information also states that practice 40mm grenades and practice LAW rockets were used during the training evolution.

SI field work was conducted in 2011 and the report was made final in 2012. Site acreage was corrected and decreased in the SI report from 15 to 10.6 acres. Antimony and lead were detected on several firing lines above the soil screening criteria of 31 mg/kg and 400 mg/kg, respectively. Nitroglycerin was detected above the USEPA soil screening criterion of 6.1 mg/kg at three samples from the firing lines. Lead was detected in two samples from the target berm above the soil screening criterion of 400 mg/kg. The entire Range Road Training Area was recommended for further investigation for MC.

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

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

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date	Program Code
6916A.1001	SDHQ-003-R-01_NDNODS Eighth Street Firing Range	10/26/2021	ENV Restoration, Army
6916A.1002	SDHQ-001-R-01_NDNODS Brookings Small Arm	9/30/2012	ENV Restoration, Army
6916A.1003	SDHQ-002-R-01_NDNODS Deadman Canyon	9/30/2012	ENV Restoration, Army
6916A.1004	SDHQ-004-R-01_NDNODS Flandreau Firing Ra	9/30/2012	ENV Restoration, Army
6916A.1005	SDHQ-005-R-01_NDNODS Glencoe Rifle Range	10/26/2021	ENV Restoration, Army
6916A.1006	SDHQ-006-R-01_NDNODS Hedtke Pass Trainin	9/30/2012	ENV Restoration, Army
6916A.1007	SDHQ-007-R-01_NDNODS Hell Canyon Trainin	9/30/2012	ENV Restoration, Army
6916A.1008	SDHQ-008-R-01_NDNODS Mitchell M31 Range	9/30/2012	ENV Restoration, Army
6916A.1009	SDHQ-009-R-01_NDNODS Plankinton Controll	9/30/2012	ENV Restoration, Army
6916A.1010	SDHQ-010-R-01_NDNODS Range Road Training	9/30/2012	ENV Restoration, Army
6916A.1011	SDHQ-011-R-01_NDNODS Redfield Controlled	9/30/2012	ENV Restoration, Army
6916A.1012	SDHQ-012-R-01_NDNODS Salem M31 Range	9/30/2012	ENV Restoration, Army
6916A.1013	SDHQ-013-R-01_NDNODS SAR - Mitchell WWTF	9/30/2012	ENV Restoration, Army
6916A.1014	SDHQ-014-R-01_NDNODS Watertown Controlle	9/30/2012	ENV Restoration, Army
6916A.1015	SDHQ-015-R-01_NDNODS Webster Controlled FTA	10/26/2021	ENV Restoration, Army
6916A.1016	SDHQ-016-R-01_NDNODS Yankton Controlled	9/30/2012	ENV Restoration, Army
6916A.1018	SDHQ-017-R-01_NDNODS West Camp Rapid Rif	9/30/2012	ENV Restoration, Army

HQAES ID	Site Name	Site Closeout Date	Program Code
6916A.1019	SDHQ-003-R-02_NDNODS EIGHTH STREET FIRIN	9/15/2012	ENV Restoration, Army
6916A.1023	CC-SDHQ-011-R-02_NDNODS Redfield Control South	4/20/2022	Compliance Cleanup

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:	N/A
Administrative Record is located at:	South Dakota Army National Guard ATTN: CFMO-EV 2823 West Main St. Rapid City, SD 57702
Information Repository is located at:	South Dakota Army National Guard ATTN: CFMO-EV 2823 West Main St. Rapid City, SD 57702
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

RAPID CITY AIRPORT COMPLEX

Army Cleanup Program

Installation Action Plan

2023

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ACRONYMS

Acronym	Definition	
AASF	Army Aviation Support Facility	
AEDB-R	Army Environmental Database - Restoration	
AFFF	Aqueous Film-Forming Foam	
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	
FY22	Fiscal Year 2022	
HQAES	Headquarters Army Environmental System	
IR	Installation Restoration	
IRA	Interim Remedial Action	
LTM	Long-Term Management	
LUC	Land Use Control	
MR	Munitions Response	
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	

Acronym	Definition	
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	
SL	Screening Level	
TAPP	Technical Assistance for Public Participation	
TRC	Technical Review Committee	
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)
.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
46B70.1002	SD2020-01-P_RAPID CTY AASF PFAS CONTAM	

RAPID CITY AIRPORT COMPLEX

INSTALLATION RESTORATION PROGRAM SITES

SD2020-01-P_RAPID CITY AASF PFAS CONTAMI

HQAES ID: 46B70.1002

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned MRSPP: Not assigned RIP Date: 9/30/2029

RC Date: 9/30/2029

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

Phases	Start	End	
PA	8/11/2017	8/1/2020	
SI	8/17/2020	7/31/2022	
RI/FS	9/30/2022	9/30/2029	
RD			
IRA			
RA(C)			
RA(O)			
LTM			

Site Narrative

A Preliminary Assessment (PA) was completed at Rapid City Army Aviation Support Facility (AASF) 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 Rapid City AASF during the PA based on interviews and records (covering 1982 to present). During the initial hangar suppression system test, a mixture of aqueous film forming foam (AFFF) and water overflowed a container and spilled onto nearby concrete and grass (at AOI 1). Annual system testing has since been contained in a bypass concrete underground storage tank that is routinely pumped out and disposed of by a contractor. There may be potentially complete exposure pathways to on- and off-facility receptors.

A Site Inspection (SI) was performed in November 2021 and a May 2023 Draft Final SI report indicated that further investigation is warranted in the form of a Remedial Investigation (RI). One or more PFAS constituents [perfluorooctanesulfonic acid (PFOS) perfluorooctanoic acid (PFOA), perfluorononanoic acid (PFNA) and/or perfluorohexanesulfonic acid (PFHxS)] exceeded screening levels (SLs) in groundwater in six out of seven source area wells. PFAS constituents were detected in soil but did not exceed soil SLs. The SI concluded that there is a potential for exposure to PFAS in soil and groundwater to on- and off-facility receptors and further evaluation is warranted in an RI. The RI was put under contract in late September 2022.

The subject site was tracked as 46B70.1001 under the Compliance-related Cleanup (CC) program. In June 2022, the site became Defense Environmental Restoration Program (DERP)-eligible.

Cleanup/Exit Strategy: A RI/Feasibility Study (FS) is needed at this site, and RI portion has been funded. FS and Decision Document (DD) costs will require future funding. Further actions cannot be determined until after the RI/FS is complete.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date	Program Code
46B70.1001	CCSD2020-01-P_RAPID CTY AASF PFAS CONTAM	6/17/2022	Compliance Cleanup

COMMUNITY INVOLVEMENT

Technical Review Committee (TRC) Establishment Date:	N/A
Community Involvement Plan (Date Published):	N/A
Restoration Advisory Board (RAB) Establishment Date:	TBD
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