JFHQ IA ARNG

Army Cleanup Program

Installation Action Plan

2023

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ACRONYMS

Acronym	Definition
AEDB-R	Army Environmental Database - Restoration
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
DD	Decision Document
DERP	Defense Environmental Restoration Program
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
MC	Munitions Constituent
MD	Munitions Debris
mg/kg	milligram/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
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-In-Place

Acronym	Definition
ROD	Record of Decision
ROE	Right of Entry
RRSE	Relative Risk Site Evaluation
SI	Site Inspection
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

HQAES ID	AEDB-R Reference	Site Alias
6886A.1010	IAHQ-008-R-01_NDNODS OTTUMWA 500-YARD RA	RRIA000008
6886A.1013	CC_IAHQ-001-R-01_NDNODS BROKEN KETTLE SA	
6886A.1014	CC_IAHQ-006-R-01_NDNODS MOUNT PLEASANT S	

JFHQ IA ARNG

MILITARY MUNITIONS RESPONSE PROGRAM SITES

IAHQ-008-R-01_NDNODS OTTUMWA 500-YARD RA

HQAES ID: 6886A.1010 **Alias:** RRIA000008

Regulatory Driver: CERCLA

RRSE: Not assigned
MRSPP: Not assigned
RIP Date: 10/15/2027
RC Date: 10/15/2027

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: MR

Phases	Start	End
PA	4/30/2007	9/30/2009
SI	7/15/2010	10/15/2027
RI/FS		
RD		
IRA		
RA(C)		
RA(O)		
LTM		

Site Narrative

The Ottumwa 500-yard Range is an 18-acre munitions response site (MRS) located on undeveloped land adjacent to the south side of State Highway 34 in Ottumwa, Iowa. The former range was designated as a 500-yard rifle range. No munitions debris was observed on-site. The period of usage is from 1887 to 1938.

All attempts at gaining right of entry from the landowner of this site were refused in 2011/2012, 2016/2017, and 2021/2022.

Cleanup Strategy

Based on the Army's experience with this site, right of entry approval is not expected. An attempt to gain right of entry (ROE) to the site will be made again in 2027.

JFHQ IA ARNG

COMPLIANCE CLEANUP SITES

CC IAHQ-001-R-01 NDNODS BROKEN KETTLE SA

HQAES ID: 6886A.1013

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned MRSPP: Not assigned RIP Date: 2/1/2036

RC Reason: Not assigned

Program: Compliance Cleanup

Subprogram: CC

RC Date: 2/1/2036

Phases	Start	End
PA	4/15/2007	9/15/2009
SI	7/15/2007	9/15/2012
RI/FS	1/1/2029	12/31/2033
RD	1/1/2034	1/31/2034
IRA		
RA(C)	2/1/2034	2/1/2036
RA(O)		
LTM		

Site Narrative

The Broken Kettle Small Arms Range is a 3-acre range MRS located on undeveloped land in the Five Prairies Preserve located on 260th St. in Westfield, Iowa. The 2009 Preliminary Assessment (PA) report indicated that the site was used for small arms training by the Iowa Army National Guard from 1966 to 1978. The former range was designated as a 25-meter range and used for small arms training. Munitions debris (MD) noted on-site included shotgun pellets, 5.56 millimeter (mm), 7.62 mm, .22 caliber, .420 shotgun, 9 mm ammunition, and skeet fragments. None of the MD noted onsite was positively identified as military issue.

Site Inspection (SI) field work was conducted in 2011, and consisted of an instrument-aided visual survey and the collection of several soil samples. The soils were sampled for lead and antimony, considered munitions constituents (MC). The Iowa Statewide Standard for Soil is 400 milligrams/kilogram (mg/kg) for total lead. Concentrations of lead in three soil samples collected within the approximate location of the target berm exceeded the Iowa standards, resulting in a recommendation for further investigation (Remedial Investigation (RI)) for MC.

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 were reprogrammed into Compliance-related Cleanup.

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_IAHQ-006-R-01_NDNODS MOUNT PLEASANT SA RANGE TARGET AREA

HQAES ID: 6886A.1014

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned MRSPP: Not assigned RIP Date: 2/1/2036

RC Reason: Not assigned

Program: Compliance Cleanup

Subprogram: CC

RC Date: 2/1/2036

Phases	Start	End
PA	4/15/2007	9/15/2009
SI	7/15/2007	9/15/2012
RI/FS	1/1/2029	12/31/2033
RD	1/1/2034	1/31/2034
IRA		
RA(C)	2/1/2034	2/1/2036
RA(O)		
LTM		

Site Narrative

The Mount Pleasant Small Arms (SA) Range started as a 742-acre MRS located on undeveloped land off an unnamed dirt road accessed from 295th Street in Mount Pleasant, Iowa. The subject site is a 4-acre portion of this area referred to as the NDNODS Mount Pleasant SA Range Target Area. The former range was designated as a 25-meter range and used for small arms training. MD noted on-site included .45 caliber, 9 mm, shotgun pellets, .223 slugs, and .38 caliber ammunition. The period of usage is from 1964 to 1987. SI field work was conducted in 2011 and consisted of a combination of biased and random instrument-aided visual survey transects, along with collection of several soil samples. Lead-contaminated soils were discovered. The Iowa Statewide Standard for Soil is 400 mg/kg for total lead. Three soil samples exceeded the standard with results of 2,300 mg/kg, 980 mg/kg and 520 mg/kg. The 4-acre NDNODS Mount Pleasant SA Range Target Area, was recommended for further investigation (RI) for MC.

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

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
6886A.1001	IAHQ-002-R-01_NDNODS CENTERVILLE 1,000-Y	9/30/2012
6886A.1002	IAHQ-003-R-01_NDNODS DAVENPORT SA RANGE	9/30/2012
6886A.1003	IAHQ-004-R-01_NDNODS LE MARS SA RANGE	9/30/2012
6886A.1004	IAHQ-005-R-01_NDNODS MARSHALLTOWN SA RAN	9/30/2012
6886A.1005	IAHQ-007-R-01_NDNODS OSKALOOSA SA RANGE	9/30/2012
6886A.1006	IAHQ-009-R-01_NDNODS RED OAK 25-METER RA	9/30/2012
6886A.1007	IAHQ-011-R-01_NDNODS SIOUX CITY HILL FAR	9/30/2012
6886A.1008	IAHQ-001-R-01_NDNODS Broken Kettle SA Ra	9/30/2012
6886A.1009	IAHQ-006-R-01_NDNODS MOUNT PLEASANT SA RANGE TARGET AREA	9/30/2012
6886A.1011	IAHQ-010-R-01_NDNODS SHELDON 1000-YARD	9/15/2012
6886A.1012	IAHQ-006-R-02_NDNODS MOUNT PLEASANT SA RANGE NTA	9/15/2012

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

BOONE AASF 1/OMS 10

Army Cleanup Program

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ACRONYMS

Acronym	Definition
AASF	Army Aviation Support Facility
AFFF	Aqueous Film Forming Foam
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
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
NFA	No Further Action
PA	Preliminary Assessment
PFAS	Per- and Polyfluoroalkyl Substances
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
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)
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.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

HQAES ID	AEDB-R Reference	Site Alias
3227A.1002	IA2020-01-P_BOONE AASF PFAS CONTAMINAT	

BOONE AASF 1/OMS 10

INSTALLATION RESTORATION PROGRAM SITES

IA2020-01-P_BOONE AASF PFAS CONTAMINAT

HQAES ID: 3227A.1002

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned MRSPP: Not assigned RIP Date: 9/14/2030 RC Date: 9/14/2030

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

Phases	Start	End
PA	8/22/2018	6/27/2019
SI	12/6/2019	8/31/2021
RI/FS	9/15/2023	9/14/2030
RD		
IRA		
RA(C)		
RA(O)		
LTM		

Site Narrative

Boone Army Aviation Support Facility (AASF) is located on 28 acres of land owned and leased by the State of lowa; the AASF facilities occupy 10 acres, and the remaining land is occupied by an Army National Guard (ARNG) Readiness Center and Field Maintenance Shop. The original 1948 AASF was demolished in 1989 to make space for the current AASF. Construction of the current AASF was completed in 1992. The Boone AASF currently has no aqueous film forming foam (AFFF) fire suppression system.

A Preliminary Assessment (PA) was completed at the Boone Army Aviation Support Facility to assess potential per- and polyfluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. One area of interest (AOI) was identified during the PA. Based on a potential PFAS release at the AOI, there is potential for exposure to PFAS contamination in surface soil, surface water and sediment for site workers, onsite construction workers, and trespassers; and subsurface soil for onsite construction workers. In addition, off-facility residents using groundwater for drinking water surrounding the facility may potentially be exposed to migrating PFAS contamination if the nearby groundwater pathway is determined to be complete.

A Site Inspection (SI) was performed in August 2020 and field activities included collection of soil and groundwater samples. Perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) were found in exceedance of screening levels (SLs) in groundwater at the AOI, and PFOS exceeded SLs in groundwater at both the upgradient and downgradient boundaries. The site was recommended for Remedial Investigation (RI), and the RI was funded in late FY21 under the Compliance-related Cleanup (CC) program. In June 2022, the site became Defense Environmental Restoration Program (DERP) eligible, and the RI was descoped from the CC contract award. The was awarded under DERP in late FY23.

Cleanup Strategy

An RI/Feasibility Study (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
3227A.1001	CCIA2020-01-P_Boone AASF PFAS Contamin	6/16/2022

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

CAMP DODGE JOHNSTON TS

Army Cleanup Program

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ROD/DDs associated with the last Five-Year/Periodic Review	10
Results, Actions & Plans	10
Land Use Controls (LUC) Summary	11

ACRONYMS

Acronym	Definition
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
HQAES	Headquarters Army Environmental System
IAARNG	Iowa Army National Guard
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MRSPP	Munitions Response Site Prioritization Protocol
NFA	No Further Action
OSD	Office of the Secretary of Defense
PA	Preliminary Assessment
PFAS	Per- and Polyfluoroalkyl Substances
PFHxS	Perfluorohexanesulfonic 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
RSL	Regional Screening Level
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

HQAES ID	AEDB-R Reference	Site Alias
3242A.1007	IA2019-01-P_PFAS CONTAMINATION	

CAMP DODGE JOHNSTON TS

INSTALLATION RESTORATION PROGRAM SITES

IA2019-01-P_PFAS CONTAMINATION

HQAES ID: 3242A.1007

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned MRSPP: Not assigned RIP Date: 9/17/2032 RC Date: 9/17/2032

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

Phases	Start	End
PA	8/11/2017	6/27/2019
SI	9/19/2018	5/31/2021
RI/FS	9/17/2025	9/17/2032
RD		
IRA		
RA(C)		
RA(O)		
LTM		

Site Narrative

Camp Dodge is located in Polk County, central Iowa. Portions of the post lie within the city limits of Johnston. The City of Des Moines lies approximately five miles to the south. The facility is the Major Training Area for the Iowa Army National Guard (IAARNG) and serves as a training area for the Army National Guard (ARNG), Air National Guard, Army Reserve, Marine Corps Reserve, Reserve Officer's Training Corps, and state law enforcement agencies.

A Preliminary Assessment (PA) was completed at Camp Dodge to assess potential per- and polyfluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. The PA identified 11 areas of interest (AOIs) related to PFAS releases at Camp Dodge. Based on documented potential PFAS releases at these AOIs, there is potential for exposure to PFAS contamination in surface soil and intermittent surface water and sediments to site workers, construction workers, residents, and trespassers/recreational users via ingestion and inhalation; subsurface soil to site workers and construction workers via ingestion and inhalation; and groundwater to all receptors via ingestion.

A Site Inspection (SI) was performed in November 2019 and field activities included collection of soil, sediment, surface water and groundwater samples. The final SI report was issued in 2021, with the recommendation that a remedial investigation (RI) be performed at three AOIs where PFAS compounds exceeded screening levels (SLs). Following the preparation of the final SI report, the Office of the Secretary of Defense (OSD) adopted the US Environmental Protection Agency's May 2022 Regional Screening Levels (RSLs) for the evaluation of PFAS concentrations in the environment. Comparison of the SI results to the May 2022 RSLs resulted in the addition of four AOIs where an RI is warranted. Perfluorooctanesulfonic acid (PFOS) exceeded groundwater screening levels (SLs) at AOI 1-4, AOI 6, and AOI 7. Perfluorohexanesulfonic acid (PFHxS) exceeded groundwater SLs at AOI 1, AOI 3, AOI 7, and AOI 9. PFOS in shallow soil exceeded SLs at AOI 1 and AOI 7. These seven AOIs warranted further investigation as an RI, which was funded in late FY21 under the Compliance-related Cleanup (CC) program.

The subject site was tracked as 3242A.1006 under the CC program. In June 2022, the site became Defense Environmental Restoration Program (DERP) eligible. The CC-funded RI was descoped from the contract, and future RI/FS actions will be funded under DERP.

Cleanup Strategy

An RI/FS will be performed and funded under DERP. Future actions cannot be determined until the RI/FS is complete.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date
3242A.1001	CCIA220941_Former Demo Pit	3/31/2008
3242A.1002	CCIA220942_Former Wastewater Treatment P	3/31/2008
3242A.1003	CCIA220943_Former Bulk Fuel Point ASTs	3/31/2008
3242A.1004	CCIA220944_Former Fuel Pipeline	3/31/2008
3242A.1005	CCIA220945_Scrap Iron Landfill	3/31/2008
3242A.1006	CCIA2019-01-P_PFAS Contamination	6/17/2022

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

LAND USE CONTROLS (LUC) SUMMARY

DAVENPORT/AASF 3

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ACRONYMS

Acronym	Definition
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AAAF	Aqueous Film Forming Foam
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AOI	Area of Interest
ARNG	Army National Guard
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PFNA	Perfluorononanoic acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
RAB	Restoration Advisory Board
RA(C)	Remedial Action (Construction)
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Acronym	Definition
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.08	Long-Term Management (LTM)	Long-Term Management (LTM)	Long-Term Management (LTM)

SITE ALIAS LIST

HQAES ID	AEDB-R Reference	Site Alias
3236A.1001	CCIA2020-02-P_DAVENPORT PFAS CONT	
3236A.1002	IA2020-02-P_DAVENPORT PFAS CONTAM	

DAVENPORT/AASF 3

INSTALLATION RESTORATION PROGRAM SITES

IA2020-02-P DAVENPORT PFAS CONTAM

HQAES ID: 3236A.1002

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned MRSPP: Not assigned RIP Date: 9/17/2028 RC Date: 9/17/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

Phases	Start	End
PA	6/18/2018	6/27/2019
SI	12/6/2019	1/18/2022
RI/FS	9/17/2021	9/17/2028
RD		
IRA		
RA(C)		
RA(O)		
LTM		

Site Narrative

Davenport Army Aviation Support Facility (AASF) is on Davenport Municipal Airport property in Scott County, located at 9650 North Harrison Street, Davenport, Iowa.

During the PA, one potential PFAS release area, the Wash Rack, was identified as an AOI at the facility. Aqueous film forming foam (AFFF) was released to the wash rack drain at AOI 1 by the Iowa Army National Guard (IAARNG) every five years from 1998 to present day, when the contents of the Tri-Max™ 3, Tri-Max™ 30, and Tri-Max™ 60 fire extinguishers were emptied at the wash rack prior to hydrostatic testing. Additionally, prior to the 2000s, a firetruck was housed at the AASF. The firetruck was taken annually to Peoria, Illinois airport for training and nozzle testing by the IAARNG and then washed at the wash rack upon its return to the AASF.

A Preliminary Assessment (PA) was completed at Davenport AASF to assess potential per- and poly-fluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. One potential PFAS release area, the Wash Rack, was identified as an area of interest (AOI) at the facility. Based on potential PFAS releases at this AOI, there is potential for exposure to PFAS contamination in surface soil, surface water, sediment, and groundwater for site workers, onsite construction workers, and trespassers; and subsurface soil for onsite construction workers. In addition, off-facility residents using groundwater for drinking water surrounding the facility may potentially be exposed to migrating PFAS contamination if the nearby groundwater pathway is determined to be complete.

A Site Inspection (SI) was performed in August 2020 and field activities included the collection of soil and groundwater samples. Perfluorooctanesulfonic acid (PFOS) in surface soil and perfluorooctanoic acid (PFOA), PFOS, perfluorononanoic acid (PFNA), and perfluorohexanesulfonic acid (PFHxS) in groundwater exceeded screening levels (SLs) at the AOI. PFOS, PFOA, and PFHxS in an upgradient well and PFOS and PFHxS in a downgradient well exceeded groundwater SLs. The site was recommended for Remedial Investigation (RI). The RI was funded under the Compliance-related Cleanup (CC) program late FY21 and is currently underway, tracked as CC site WBS# 3236A.1001.

In June 2022, the site became eligible for the Defense Environmental Restoration Program (DERP). Future actions including preparation of a feasibility study (FS) and decision documents (DDs) are tracked under the subject DERP site.

Cleanup Strategy An RI is funded under CC and is underway. The FS and preparation of DDs are required in the future. Future actions cannot be determined until the RI/FS is complete.

DAVENPORT/AASF 3

COMPLIANCE CLEANUP SITES

CCIA2020-02-P_DAVENPORT PFAS CONT

HQAES ID: 3236A.1001

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned MRSPP: Not assigned RIP Date: 6/17/2026 RC Date: 6/17/2026

RC Reason: Not assigned
Program: Compliance Cleanup

Subprogram: CC

Phases	Start	End
PA	6/18/2018	6/27/2019
SI	12/6/2019	1/18/2022
RI/FS	6/15/2021	6/17/2026
RD		
IRA		
RA(C)		
RA(O)		
LTM		

Site Narrative

Davenport AASF is on Davenport Municipal Airport property in Scott County, located at 9650 North Harrison Street, Davenport, Iowa.

During the PA, one potential PFAS release area, the Wash Rack, was identified as an AOI at the facility. AFFF was released to the wash rack drain at AOI 1 by the IAARNG every five years from 1998 to present day, when the contents of the Tri-Max[™] 3, Tri-Max[™] 30, and Tri-Max[™] 60 fire extinguishers were emptied at the wash rack prior to hydrostatic testing. Additionally, prior to the 2000s, a firetruck was housed at the AASF. The firetruck was taken annually to Peoria, Illinois airport for training and nozzle testing by the IAARNG and then washed at the wash rack upon its return to the AASF.

A PA was completed at Davenport AASF to assess potential PFAS release areas and exposure pathways to receptors. One potential PFAS release area, the Wash Rack, was identified as an AOI at the facility. Based on potential PFAS releases at this AOI, there is potential for exposure to PFAS contamination in surface soil, surface water, sediment, and groundwater for site workers, onsite construction workers, and trespassers; and subsurface soil for onsite construction workers. In addition, off-facility residents using groundwater for drinking water surrounding the facility may potentially be exposed to migrating PFAS contamination if the nearby groundwater pathway is determined to be complete.

A Site Inspection (SI) was performed in August 2020 and field activities included the collection of soil and groundwater samples. Perfluorooctanesulfonic acid (PFOS) in surface soil and perfluorooctanoic acid (PFOA), PFOS, perfluorononanoic acid (PFNA), and perfluorohexanesulfonic acid (PFHxS) in groundwater exceeded screening levels (SLs) at the AOI. PFOS, PFOA, and PFHxS in an upgradient well and PFOS and PFHxS in a downgradient well exceeded groundwater SLs. The site was recommended for Remedial Investigation (RI). The RI was funded under the CC program late FY21 and is currently underway.

In June 2022, the site became eligible for the DERP. Future actions including preparation of a FS and DDs are tracked under DERP site in HQAES, WBS# 3236A.1002.

Cleanup Strategy

A Following completion of the RI/FS, a PP and DD will be prepared. Future actions will be determined based on the results of the RI/FS.

SITE CLOSEOUT SUMMARY

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

LAND USE CONTROLS (LUC) SUMMARY

WATERLOO/AASF 2

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
AOI	Area of Interest
ARNG	Army National Guard
СС	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
DD	Decision Document
DERP	Defense Environmental Restoration Program
ENV	Environmental
FS	Feasibility Study
HQAES	Headquarters Army Environmental System
IAARNG	Iowa Army National Guard
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
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
RI	Remedial Investigation

Acronym	Definition
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

HQAES ID	AEDB-R Reference	Site Alias
3255A.1001	CCIA2020-03-P_WATERLOO PFAS CONT	
3255A.1002	IA2020-03-P_WATERLOO PFAS CONTAM	

WATERLOO/AASF 2

INSTALLATION RESTORATION PROGRAM SITES

IA2020-03-P WATERLOO PFAS CONTAM

HQAES ID: 3255A.1002

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned MRSPP: Not assigned RIP Date: 9/17/2028 RC Date: 9/17/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

Phases	Start	End
PA	8/22/2018	6/27/2019
SI	12/6/2019	8/31/2021
RI/FS	9/17/2021	9/17/2028
RD		
IRA		
RA(C)		
RA(O)		
LTM		

Site Narrative

Waterloo Army Aviation Support Facility (AASF) is located in Black Hawk County, in Waterloo, Iowa, adjacent to the Waterloo Regional Airport. A Preliminary Assessment (PA) was completed at Waterloo AASF to assess potential per- and poly-fluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. Two areas of interest (AOIs) related to potential PFAS releases were identified at the Waterloo AASF during the PA: AOI 1 – Middle Ramp Fire Extinguisher Training; and AOI 2 – West Ramp Fire Extinguisher Training. Based on potential PFAS releases at these AOIs, there is potential for exposure to PFAS contamination in surface soil, surface water, and sediment for site workers, onsite construction workers, and trespassers; and subsurface soil for onsite construction workers. In addition, off-facility residents using groundwater for drinking water surrounding the facility may potentially be exposed to migrating PFAS contamination if the nearby groundwater pathway is determined to be complete.

A Site Inspection (SI) was performed in August 2020 and field activities included collection of soil and groundwater samples. Due to the updated screening levels (SLs) defined in the Office of the Secretary of Defense Memo, 6 July 2022, perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) at AOI 1 and AOI 2 and PFOA at the upgradient facility boundary exceeded groundwater SLs. The RI was funded under the Compliance-related Cleanup (CC) program late FY21 and is currently underway, tracked as CC site WBS# 3236A.1001.

In June 2022, the site became eligible for the Defense Environmental Restoration Program (DERP). Future actions including preparation of a feasibility study (FS) and decision documents (DDs) are tracked under the subject DERP site.

Cleanup Strategy An RI is funded under CC and is underway. The FS and preparation of DDs are required in the future. Future actions cannot be determined until the RI/FS is complete.

WATERLOO/AASF 2

COMPLIANCE CLEANUP SITES

CCIA2020-03-P_WATERLOO PFAS CONT

HQAES ID: 3255A.1001

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned MRSPP: Not assigned RIP Date: 6/17/2026 RC Date: 6/17/2026

RC Reason: Not assigned
Program: Compliance Cleanup

Subprogram: CC

Phases	Start	End
PA	6/18/2018	6/27/2019
SI	12/6/2019	1/18/2022
RI/FS	6/15/2021	6/17/2026
RD		
IRA		
RA(C)		
RA(O)		
LTM		

Site Narrative

Waterloo AASF is located in Black Hawk County, in Waterloo, Iowa, adjacent to the Waterloo Regional Airport. A PA was completed at Waterloo AASF to assess potential PFAS release areas and exposure pathways to receptors. Two AOIs related to potential PFAS releases were identified at the Waterloo AASF during the PA: AOI 1 – Middle Ramp Fire Extinguisher Training; and AOI 2 – West Ramp Fire Extinguisher Training. Based on potential PFAS releases at these AOIs, there is potential for exposure to PFAS contamination in surface soil, surface water, and sediment for site workers, onsite construction workers, and trespassers; and subsurface soil for onsite construction workers. In addition, off-facility residents using groundwater for drinking water surrounding the facility may potentially be exposed to migrating PFAS contamination if the nearby groundwater pathway is determined to be complete.

An SI was performed in August 2020 and field activities included collection of soil and groundwater samples. Due to the updated SLs defined in the Office of the Secretary of Defense Memo, 6 July 2022, PFOA and PFOS at AOI 1 and AOI 2 and PFOA at the upgradient facility boundary exceeded groundwater SLs. The RI was funded under the CC program late FY21 and is currently underway.

In June 2022, the site became eligible for the DERP. Future actions including preparation of an FS and DDs are tracked under DERP site in HQAES, WBS# 3255A.1002.

Cleanup Strategy Following completion of the RI/FS, a PP and DD will be prepared. Future actions will be determined based on the results of the RI/FS.

SITE CLOSEOUT SUMMARY

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

LAND USE CONTROLS (LUC) SUMMARY