

CAMP ATTERBURY

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
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
MR	Munitions Response
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
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
18055.1010	CCIN2020-01-P_CAMP ATTERBURY PFAS CONTAMINATION	- -

CAMP ATTERBURY

COMPLIANCE CLEANUP SITES

CCIN2020-01-P_CAMP ATTERBURY PFAS CONTAMINATION

HQAES ID: 18055.1010

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 9/15/2031

RC Date: 9/15/2031

RC Reason: Not assigned

Program: Compliance Cleanup

Subprogram: CC

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	8/11/2017	9/30/2020
SI	12/6/2019	6/17/2022
RI/FS	9/15/2024	9/15/2031
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

A Preliminary Assessment (PA) was completed to assess potential per-and polyfluoroalkyl substances (PFAS) release areas and exposure pathways to receptors at Camp Atterbury in Edinburgh, Indiana. One area of interest (AOI) related to a potential PFAS release was identified at Camp Atterbury during the PA. Based on potential PFAS releases at this AOI, there is potential for exposure to PFAS contamination in surface soil to site workers, construction workers, and trespassers via ingestion and inhalation of dust, subsurface soil to site workers, construction workers, and trespassers via ingestion and inhalation, and in surface water and sediment for all receptors via ingestion. A Site Inspection (SI) was completed at this site. Based on the results of the SI, perfluorobutane sulfonic acid (PFBS) in groundwater at AOI 3 exceeded the screening level (SL) of 600 nanograms/liter (ng/L), with a concentration of 1739 ng/L. Based on the results of the SI, further evaluation of AOI 3 is warranted in a Remedial Investigation (RI).

Restoration/Cleanup Strategy: An RI/Feasibility Study (FS) will be completed at this site. Further actions cannot be determined until after the RI/FS is complete.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date	Program Code
18055.1001	ARFTA-01_OLD LANDFILL	9/30/1997	ENV Restoration, Army
18055.1002	ARFTA-02_IMPACT AREA FIRING POINTS	9/30/1997	ENV Restoration, Army
18055.1003	ARFTA-03_BATTERY DISPOSAL AREAS - OMS 2A	9/30/1997	ENV Restoration, Army
18055.1004	ARFTA-04_SUSPECTED CHEMICAL AGENT BURN S	4/30/1997	ENV Restoration, Army
18055.1005	ARFTA-05_CHEMICAL AGENT IDEN SET (CAIS)	9/30/1997	ENV Restoration, Army
18055.1006	ARFTA-06_PCB STORAGE AREAS	9/30/1997	ENV Restoration, Army
18055.1007	ARFTA-07_USTS - INSTALLATION WIDE	9/30/1997	ENV Restoration, Army
18055.1008	ARFTA-08_VEHICLE WASH PADS	9/30/1997	ENV Restoration, Army
18055.1009	ARFTA-09_WWTP SLUDGE AREA	9/30/1997	ENV Restoration, Army
18055.1011	CC PF 6121_Former Fuel Point 6121	9/30/2011	Compliance Cleanup
18055.1012	IN2020-01-P_CAMP ATTERBURY PFAS CONTAMINATION	9/14/2022	ENV Restoration, Army

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 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

GARY/OMS 13

Army Cleanup Program

Installation Action Plan

2023

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DD	Decision Document
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IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MR	Munitions Response
MRSPP	Munitions Response Site Prioritization Protocol
PA	Preliminary Assessment
RA(C)	Remedial Action (Construction)
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RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-In-Place
ROD	Record of Decision
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
18510.1002	IN2020-02-P_GARY AASF PFAS CONTAMINATION	

GARY/OMS 13

INSTALLATION RESTORATION PROGRAM SITES

IN2020-02-P_GARY AASF PFAS CONTAMINATION

HQAES ID: 18510.1002

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 9/15/2033

RC Date: 9/15/2033

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	8/11/2017	3/20/2020
SI	8/17/2020	9/30/2023
RI/FS	9/15/2026	9/15/2033
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

A Preliminary Assessment (PA) was completed for per-and polyfluoroalkyl substances (PFAS) at the Army Aviation Support Facility (AASF) in Gary, Indiana to assess potential PFAS release areas and exposure pathways to receptors. One Area of Interest related to PFAS releases was identified at the Gary AASF during the PA. While the Aqueous Film Forming Foam spill was contained and recovered, it is possible that some amount reached the surrounding grassy area or infiltrated to the soil beneath the concrete through pores, cracks, and seams. Thus, there is potential for exposure to PFAS contamination in surface and subsurface soil to site workers and construction workers via ingestion and inhalation and in surface water and sediment for all receptors via ingestion. Drinking water is supplied by Indiana-American Water, which obtains its water from Lake Michigan. No private residential drinking water wells or public drinking water wells are located in or around the Gary AASF; therefore, the groundwater exposure pathway is incomplete.

A Draft Site Inspection (SI) has been completed at this site. Based on the results of the SI, further evaluation is necessary at AOI1. Perfluorobutane sulfonic acid (PFBS), perfluorohexane sulfonate (PFHxS), Perfluorononanoic acid (PFNA), perfluorooctane sulfonate (PFOS), and perfluorooctanoic acid (PFOA) were detected in groundwater in the source areas at AOI 1 and near the Facility boundary. PFHxS exceeded the screening level (SL) in groundwater in four of the thirteen temporary wells with a maximum concentration of 360 nanograms/liter (ng/L). PFNA exceeded the SL in groundwater in nine of the thirteen temporary wells with a maximum concentration of 56 ng/L. PFOS exceeded the SL in groundwater in thirteen of the thirteen temporary wells with a maximum concentration of 3700 ng/L. PFOA exceeded the SL in groundwater in thirteen of the thirteen temporary wells with a maximum concentration of 2300 ng/L. PFOA, PFHxS, PFNA, and PFOS were detected in surface and subsurface soil. PFOS exceeded the SL in surface and subsurface soil.

The subject site was tracked as 18510.1001 under the Compliance Cleanup (CC) program. In Fiscal Year (FY) 23, this site was determined to be eligible under the Defense Environmental Restoration Program (DERP).

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) will be completed at this site. Further actions cannot be determined until after the RI/FS is complete.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date	Program Code
18510.1001	CCIN2020-02-P_GARY AASF PFAS CONTAMINATION	4/23/2023	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:	Community Involvement Plan, Administrative Record and Information Repository will be developed once 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

MUSCATATUCK URBAN TRAINING CENTER

Army Cleanup Program

Installation Action Plan

2023

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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

HQAES ID	AEDB-R Reference	Site Alias
6659A.1002	IN2020-03-P_MUSCATATUCK URBAN TRAINING CENTER PFAS CONTAMINATION	

MUSCATATUCK URBAN TRAINING CENTER

INSTALLATION RESTORATION PROGRAM SITES

IN2020-03-P_MUSCATATUCK URBAN TRAINING CENTER PFAS CONTAMINATION

HQAES ID: 6659A.1002

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 9/15/2033

RC Date: 9/15/2033

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	8/11/2017	10/14/2020
SI	5/10/2020	2/28/2023
RI/FS	9/15/2026	9/15/2033
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

A Preliminary Assessment (PA) was completed for per-and polyfluoroalkyl substances (PFAS) at Muscatatuck Urban Training Center in Butlerville, Indiana to assess potential PFAS release areas and exposure pathways to receptors. During the PA it was determined Aqueous Film Forming Foam was stored at this site.

A Site Inspection (SI) was performed at the site. Based on the results of the SI, perfluorooctane sulfonate (PFOS) in surface soil exceeded the screening level (SL) of 13 micrograms/kilograms (ug/kg) with concentrations of 125 ug/kg and 16.7 ug/kg. Perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS), and perfluorohexanesulfonic acid (PFHxS) exceeded the SLs in groundwater at area of interest (AOI) 1. PFOA exceeded the SL of 6 nanograms/Liter (ng/L) with a concentration of 10.7 ng/L. PFOS exceeded the SL of 4 ng/L with a maximum concentration of 353 ng/L. PFHxS exceeded the SL of 39 ng/L with a maximum concentration of 296 ng/L. Based on the results of this SI, further evaluation of AOI 1 is warranted for Remedial Investigation (RI).

The subject site was tracked as 6659A.1001 under the Compliance Cleanup (CC) program. In Fiscal Year (FY) 23, this site was determined to be eligible under the Defense Environmental Restoration Program (DERP).

Restoration/Cleanup Strategy: A RI/Feasibility Study (FS) will be completed at this site. Once the RI/FS is completed, future actions will be evaluated.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date	Program Code
6659A.1001	CCIN2020-03-P_ MUSCATATUCK URBAN TRAINING CENTER PFAS CONTAMINATION	2/28/2023	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:	Community Involvement Plan, Administrative Record and Information Repository will 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

SHELBYVILLE AASF

Army Cleanup Program

Installation Action Plan

2023

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MRSPP	Munitions Response Site Prioritization Protocol
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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

HQAES ID	AEDB-R Reference	Site Alias
3399A.1002	IN2020-04-P_SHELBYVILLE AASF PFAS CONTAMINATION	

SHELBYVILLE AASF

INSTALLATION RESTORATION PROGRAM SITES

IN2020-04-P_SHELBYVILLE AASF PFAS CONTAMINATION

HQAES ID: 3399A.1002

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 9/30/2029

RC Date: 9/30/2029

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	8/11/2017	7/2/2020
SI	12/6/2019	3/09/2022
RI/FS	9/30/2022	9/30/2029
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

A Preliminary Assessment (PA) was completed at Shelbyville Army Aviation. Support Facility (AASF) to assess potential per-and polyfluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. One area of interest (AOI) related to a PFAS release, and one AOI related to a potential PFAS release, were identified at Shelbyville AASF. Based on documented and potential Aqueous Film Forming Foam (AFFF) releases at the Shelbyville AASF AOIs, there is potential for exposure to PFAS contamination in soil, groundwater, surface water, and sediment for site and construction workers, off-facility residents, and recreational users. In addition, site and construction workers and off facility residents using groundwater for drinking water may potentially be exposed to migrating PFAS contamination via the groundwater pathway. A Site Inspection (SI) was completed at this site, based on the results of the SI, perfluorooctane sulfonate (PFOS) in soil at AOI 3, AFFF Storage Area exceeded the screening level (SL) of 130 microgram/kilogram ($\mu\text{g}/\text{kg}$), with a concentration of 2,680 $\mu\text{g}/\text{kg}$. Further evaluation of AOI 3 is warranted in a Remedial Investigation (RI). While the groundwater concentrations did not exceed the SLs at the facility for the samples collected, the observed groundwater flow direction suggests that well control downgradient of source areas was not achieved. Additional data collected during the RI would improve the understanding of groundwater conditions at the facility. It was also recommended that, because the AOIs are closely interconnected, they be combined into a single AOI and move forward collectively to the RI phase for further evaluation.

The subject site was tracked as 3399A.1001 under the Compliance-related Cleanup (CC) program. In June 2022, this site was determined to be eligible for the Defense Environmental Restoration Program (DERP).

Restoration/Cleanup Strategy: A RI/Feasibility Study (FS) will be completed at this site. The RI was funded in Fiscal Year 2022 (FY22). FS 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
3399A.1001	IN2020-04-P_SHELBYVILLE AASF PFAS CONTAMINATION	6/17/2022	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:	Community Involvement Plan, Administrative Record, Information Repository will be developed once the progress 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