ROCK ISLAND ARSENAL

Army Cleanup Program

Installation Action Plan Final June 2024

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STATEMENT OF PURPOSE

The Installation Action Plan (IAP) provides evidence that the Army is firmly committed to expeditious identification and cleanup of environmental contamination, and that the installation has a credible, organized program to carry out that commitment. The IAP provides an outline of the total multi-year environmental cleanup program for each site with ongoing or future planned restoration activity and includes the (1) environmental restoration requirements, (2) the rationale for the selected technical approach, and (3) foundation to develop corresponding financial needs for each cleanup site.

INSTALLATION OVERVIEW

Installation Name: ROCK ISLAND ARSENAL

Installation City: ROCK ISLAND
Installation County: ROCK ISLAND

Installation State: IL

Regulatory Participation - Federal: N/A

Regulatory Participation - State: Illinois Environmental Protection Agency (IEPA)

ACRONYMS

Acronym	Definition
AOPI	Areas of Potential Interest
CC	Compliance-related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CRL	Cleanup Restoration & Liabilities
DCS	Deputy Chief of Staff
DD	Decision Document
ENV	Environmental
ESI	Environmental Severity Index
FS	Feasibility Study
FYR	Five-Year Review
ft	feet
HWMU	Hazardous Waste Management Units
IAP	Installation Action Plan
ID	Identification
IEPA	Illinois Environmental Protection Agency
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
LUCIP	Land Use Control Implementation Plan
MEC	Munitions and Explosives of Concern
mm	millimeter
MNA	Monitored Natural Attenuation
MR	Munitions Response
MRSPP	Munitions Response Site Prioritization Protocol
NTCRA	Non Time Critical Removal Action
NOV	Notice of Violation
NPL	National Priorities List
OLF	Old Landfill
PA	Preliminary Assessment
PAH	Polycyclic Aromatic Hydrocarbons
PA/SI	Preliminary Assessment / Site Inspection
PCB	Polychlorinated Biphenyls
PFAS	Per- and Polyfluoroalkyl Substances
PMP	Project Management Plan
POL	Petroleum Oil and Lubricants
PP	Proposed Plan
PR	Periodic Review
RA(C)	Remedial Action (Construction)

Acronym	Definition
RA(O)	Remedial Action (Operations)
RAB	Restoration Advisory Board
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
RIA	Rock Island Arsenal
RIP	Remedy-In-Place
RRSE	Relative Risk Site Evaluation
SC	Site Closeout
SI	Site Inspection
SVOC	Semi-Volatile Organic Compounds
TAPP	Technical Assistance for Public Participation
TACO	Tiered Approach to Cleanup Objectives
TCA	Trichloroethane
TCE	Trichloroethylene
UE	Unrestricted Exposure
UST	Underground Storage Tank
UU	Unlimited Use
VOC	Volatile Organic Compounds
WP	Work Plan

PHASE TRANSLATION TABLE

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

PROGRAM SUMMARY

Number of Open Sites with Response Complete/Total Open IR Sites: 0/7 Number of Open Sites with Response Complete/Total Open MR Sites: 1/1 Number of Open Sites with Response Complete/Total Open CC Sites: 0/1

SITE-LEVEL INFORMATION

17775.1001_RIA-001_OLD LANDFILL

Env Site ID: RIA-001

Cleanup Site: OLD LANDFILL

Alias: RIA-001

Regulatory Driver: CERCLA

RIP Date: 6/30/2030 RC Date: 9/30/2059 RC Reason: Not assigned

SC Date: 9/30/2059

Program: ENV Restoration, Army

Subprogram: IR NPL Status: No

Hazardous Ranking Score: 0

RRSE: High MRSPP: N/A

Phase	Start	End
PA:	2/28/1979	12/31/1979
SI:	5/31/1988	5/31/1988
RI/FS:	6/1/1988	6/30/2026
RD:		
IRA:	12/15/2012	6/30/2030
RA(C):	7/1/2026	6/30/2030
RA(O):	7/1/2030	9/30/2059
LTM:		

Site Narrative: SITE LOCATION AND DESCRIPTION - Site 17775.1001 (RIA-001) (Old Landfill [OLF]) occupies approximately 20-acres in the south-central part of Rock Island Arsenal (RIA) adjacent to the Sylvan Slough. HISTORICAL USE / DESCRIPTION OF RELEASE – Historical records indicate that the OLF was active between 1920 and 1965. Records indicate a variety of wastes generated by the industrial processes at RIA were potentially disposed of in the OLF during its active life. Waste oils, solvents, and other liquids were poured into pits and either burned or allowed to percolate into the ground. Additionally, industrial wastes including degreaser sludges, heat-treating salts, electroplating solutions, and wastewaters from operations on RIA were disposed of in this area. In August 2018, an intermittent sheen was discovered in the Sylvan Slough that appeared to come from the OLF. FUTURE LAND USE -The current and reasonably anticipated future land use is industrial. The site is anticipated to remain vacant lot. MEDIA OF CONCERN - Groundwater, soil, and possibly surface water. CONTAMINANTS OF CONCERN – The contaminants of concern for groundwater are volatile organic compounds (VOCs), polychlorinated biphenyls (PCB), metals, semi-volatile organic compounds (SVOC), and free product. The contaminants of concern for soil are VOCs, PCBs, metals, and SVOCs. SIGNIFICANT INVESTIGATIONS / CLEANUP ACTIONS COMPLETED - In 1987, an update of the initial assessment of RIA was conducted to determine if conditions had changed. The site became part of the RIA Installation Restoration Program for cleanup. In 1994 and 1995 a Phase I Remedial Investigation (RI) was conducted to assess the nature of the site and contamination present at the landfill. A Phase II RI was conducted in 1997 and 1998. The field activities associated with this investigation included collecting additional site characterization data to complement the Phase I RI results, support the baseline human health risk assessment and ecological risk assessment, and define the extent of contamination. Interim actions for the soils included vegetation and soil removal, installing soil cover, storm water line removal, and shoreline revetment installation. Soil cover installation was completed in FY15. The final construction completion report for the interim soil cover activities was completed in September 2016. Point of compliance monitoring for groundwater continues under the Interim Remedial Action (IRA) phase. The RI report was finalized in November 2020. The first five-year review (FYR) was completed in fall 2019. KEY DOCUMENTS IN PROGRESS – A feasibility

study (FS) is underway. The second FYR is underway. OFF-SITE MIGRATION POTENTIAL – In 2001, during drilling activities, a boil was observed in the Sylvan Slough about 30-feet (ft) off-shore. During low river water levels, seeps from under the rip rap along the south side of the landfill have been observed in 2018, 2020, 2021, 2022, and 2023. All seeps other than the one in 2023 lasted only a few days. The 2023 seep lasted from June through October 2023. CLEANUP/EXIT STRATEGY – Follow-on activities for the RI/FS phase will include completion of the Proposed Plan (PP) and the Decision Document (DD). The interim action for soils will continue and consists of using environmental Land Use Controls (LUC) per IEPA regulation 742 Part J. Remedial Action (Operations) (RA(O)) will continue indefinitely after Remedial Action (Construction) (RA(C)). It is anticipated that groundwater monitoring, landfill cover repairs/maintenance, LUCs, and FYRs will continue indefinitely.

17775.1029 RIA-014 UST (34)

Env Site ID: RIA-014 Cleanup Site: UST (34)

Alias: RIA-014

Regulatory Driver: CERCLA

RIP Date: 1/15/2012 RC Date: 9/30/2054 RC Reason: Not assigned

SC Date: 9/30/2054

Program: ENV Restoration, Army

Subprogram: IR NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	6/30/1986	12/31/1986
SI:	1/31/1999	9/30/1999
RI/FS:	1/31/2000	5/31/2009
RD:		
IRA:	5/15/1992	7/15/1992
RA(C):	6/30/2008	10/15/2010
RA(O):	1/15/2012	9/30/2054
LTM:		

Site Narrative: SITE LOCATION AND DESCRIPTION - Site 17775.1029 (RIA-014) is a site near Building 250 and is located in the south-central portion of the island at the northwest corner of the intersection of Beck Avenue and Gillespie Street. HISTORICAL USE / DESCRIPTION OF RELEASE - Contamination was discovered during the removal of an underground storage tank (UST) 34. The UST was used to store the liquids (lubricants, cutting oils, solvents, and degreasers) from the metal shavings and chips generated during the manufacturing process in Bldg. 250. Prior to the UST's installation the metal shavings and chips were stored either in leaking bins or on the ground. FUTURE LAND USE - The current and reasonably anticipated future land use is industrial. The site is anticipated to continue to be used as a parking area. MEDIA OF CONCERN – Soil and groundwater. CONTAMINANTS OF CONCERN – Polycyclic aromatic hydrocarbons (PAHs) were the initial contaminants of concern. Trichloroethylene (TCE) has been subsequently discovered at relatively low levels. SIGNIFICANT INVESTIGATIONS / CLEANUP ACTIONS COMPLETED - In 1989, an IRA in conjunction with the removal of the abandoned UST included soil removal. An RI was completed, and the plume migration pathways identified. An additional investigation was completed to delineate the soil contamination and groundwater plume. The final RI report was approved in January 2008. One groundwater sampling event was conducted in FY10 and one in FY11. The results of these events indicated that the site has not reached remedial limits. An FS was completed for this site in 2009 using previous sampling data. The DD was signed Jun. 9, 2014. The selected remedy is LUC with groundwater monitoring to determine when maximum contaminant levels or regulatory cleanup objectives are met. The LUCs are required per the IEPA regulation 742 Subpart J. The first FYR was completed in fall 2019. KEY DOCUMENTS IN PROGRESS – Groundwater monitoring reports are completed annually. The second FYR is underway. OFF-SITE MIGRATION POTENTIAL – None. CLEANUP/EXIT STRATEGY – The RA(O) phase is still currently underway and includes groundwater monitoring, LUCs, and FYRs, which will be required until the groundwater chemical results reach unlimited use/unrestricted exposure (UU/UE).

17775.1031 RIA-001A Old Landfill - Silurian Aquifer

Env Site ID: RIA-001A

Cleanup Site: Old Landfill - Silurian Aquifer

Alias: #

Regulatory Driver: CERCLA

RIP Date: 6/30/2030 RC Date: 9/30/2059 RC Reason: Not assigned

SC Date: 9/30/2059

Program: ENV Restoration, Army

Subprogram: IR NPL Status: No

Hazardous Ranking Score: 0

RRSE: Low MRSPP: N/A

Phase	Start	End
PA:	1/31/2005	6/30/2005
SI:	10/31/2009	9/15/2013
RI/FS:	6/15/2015	6/30/2026
RD:		
IRA:		
RA(C):	7/1/2026	6/30/2030
RA(O):	7/1/2030	9/30/2059
LTM:		

Site Narrative: SITE LOCATION AND DESCRIPTION - Site 17775.1031 (RIA-001a) was created to address the TCE in groundwater associated with site 17775.1001 (RIA-001) and then revised to include the TCE found across the island. In 2018, the site was reduced to include the groundwater investigations and monitoring at site 17775.1034 (RIA-007). Site 17775.1031 (RIA-001a) is a grassed area between the Petroleum Oil & Lubricants (POL) Facility and Sylvan Slough. The site is approximately 7-acres in size. HISTORICAL USE / DESCRIPTION OF RELEASE – The site has been used as a staging/storage area as well as a landfill for construction materials. Several investigations near the vicinity of the site had indicated that VOCs may be present at the site. An SI was conducted in 2011, resulting in the detection of VOCs (predominately TCE, 1,2-DCE, and VC) in soil and groundwater at the site. The actual source of the VOCs is not known. FUTURE LAND USE – The current and reasonably anticipated future land use is industrial. MEDIA OF CONCERN – Groundwater. Soil at the site is being addressed under site 17775.1034 (RIA-007). CONTAMINANTS OF CONCERN – Contaminants are VOCs metals and minor amounts of PAHs. SIGNIFICANT INVESTIGATIONS / CLEANUP ACTIONS COMPLETED – An Environmental Severity Index (ESI) report was completed in October 2012 followed by a second ESI in January 2013. An RI report was completed in February 2019. An FS was completed in September 2021. Semi-annual groundwater monitoring began in Fall 2020 and continues. KEY DOCUMENTS IN PROGRESS - During Army review of the draft PP, it was discovered that there was a need to complete a Revised Final FS to consider a remedial alternative that allows for UU/UE. The Revised Final FS is underway. OFF-SITE MIGRATION POTENTIAL – None. CLEANUP/EXIT STRATEGY – The cleanup/exit strategy is based on the draft PP and the preferred alternative is in-situ chemical oxidation with monitored natural attenuation (MNA), LUCs, and FYRs. Follow-on activities for the RI/FS phase will include completion of the PP and the DD. It is anticipated that groundwater monitoring, LUCs, and FYRs will continue indefinitely.

17775.1032 CC-RIA-69 BLDG 69 Production, Plating an

Env Site ID: CC-RIA-69

Cleanup Site: BLDG 69 Production, Plating an

Alias: BLDG 69

Regulatory Driver: CERCLA

RIP Date: 12/31/2029 RC Date: 9/30/2059 RC Reason: Not assigned

SC Date: 9/30/2059

Program: ENV Restoration, Army

Subprogram: IR NPL Status: No

Hazardous Ranking Score: 0

RRSE: Not Evaluated

MRSPP: N/A

Phase	Start	End
PA:	10/31/2006	2/28/2007
SI:	3/31/2009	9/30/2009
RI/FS:	3/31/2010	6/30/2026
RD:		
IRA:	3/31/2011	8/15/2015
RA(C):	7/1/2026	12/31/2029
RA(O):	1/1/2030	9/30/2059
LTM:		

Site Narrative: SITE LOCATION AND DESCRIPTION - Site 17775.1032 (Building 69) was located in the courtyard of Building 66 that is located in the middle portion of the installation. HISTORICAL USE / DESCRIPTION OF RELEASE – A mix of production plating and tinning operations were performed within Building 69 from 1918 until about 1980 when operations in the building were stopped. Until the building structure was demolished in 2007, the major use was for storage. The building was demolished during FY07, but the foundation and floor remain in place. Liquid waste (plating related solutions, solvents, and degreasers) generated at this building are reported to have been discharged into an old brick sewer line from a sump in the secondary containment pit. Additionally, Bldg. 66 which surrounds Bldg. 69 was also used for small arms manufacturing and chemical storage in the basement during WWI and WWII. MEDIA OF CONCERN – Soil and groundwater. CONTAMINANTS OF CONCERN – The contaminants of concern are metals and VOCs. FUTURE LAND USE – The current and reasonably anticipated future land use is industrial. The site is anticipated to continue to be used as a parking area. SIGNIFICANT INVESITIGATIONS / CLEANUP ACTIONS COMPLETED – A Preliminary Assessment / Site Inspection (PA/SI) was performed and included groundwater and soil sampling. The PA/SI results indicated chromium and TCE contamination. A second biotreatment injection was performed in 2015 as part of the IRA phase. Additional wells have been installed and the site has had biotreatment injections to help reduce chromium and TCE contamination under the IRA phase. The site moved into the IEPA Federal Compliance Program in FY14. Groundwater monitoring events have been conducted semi-annually since FY15. An RI/FS was completed in April 2022. KEY DOCUMENTS IN PROGRESS – During Army review of the draft PP, it was discovered that there was a need to complete a Revised Final FS to consider a remedial alternative that allows for UU/UE. The Revised Final FS is underway. OFF-SITE MIGRATION POTENTIAL – None. CLEANUP/EXIT STRATEGY – The cleanup/exit strategy for the soil has previously been completed. Followon activities for the RI/FS phase will include completion of the PP and the DD. The cleanup/exit strategy for the groundwater is anticipated to be in-situ injections of the groundwater followed by groundwater monitoring, LUCs, and FYRs, which are anticipated to continue indefinitely.

17775.1034_CC-RIA-007_Former Construction Landfill

Env Site ID: CC-RIA-007

Cleanup Site: Former Construction Landfill

Alias: #

Regulatory Driver: CERCLA

RIP Date: 6/30/2028 RC Date: 6/30/2028 RC Reason: Not assigned SC Date: 9/30/2057

Program: ENV Restoration, Army

Subprogram: IR NPL Status: No

Hazardous Ranking Score: 0

RRSE: Not Evaluated

MRSPP: N/A

Phase	Start	End
PA:	5/31/2008	12/31/2008
SI:	6/30/2010	9/30/2010
RI/FS:	7/31/2012	6/30/2026
RD:		
IRA:		
RA(C):	7/1/2026	6/30/2028
RA(O):		
LTM:	7/1/2028	9/30/2057

Site Narrative: SITE LOCATION AND DESCRIPTION – Site 17775.1034 (RIA-007) is a grassed area between the POL Facility and Sylvan Slough. The site is approximately 7-acres in size. HISTORICAL USE / DESCRIPTION OF RELEASE – The site has been used as a staging/storage area as well as a landfill for construction materials. Several investigations near the vicinity of the site had indicated that VOCs may be present at the site. An SI was conducted in 2011, resulting in the detection of VOCs (predominately TCE, 1,2-DCE, and VC) in soil and groundwater at the site. The actual source of the VOCs is not known. FUTURE LAND USE – The current and reasonably anticipated future land use is industrial. MEDIA OF CONCERN – Soil. Groundwater at the site is being addressed under site RIA-001a (17775.1031). CONTAMINANTS OF CONCERN – The contaminants are VOCs, metals, and minor amounts of PAHs. SIGNIFICANT INVESITIGATIONS / CLEANUP ACTIONS COMPLETED - The site was used as a landfill for disposal of construction waste from RIA. An RI was completed in June 2015. An FS was finalized in June 2021. KEY DOCUMENTS IN PROGRESS - During Army review of the draft PP, it was discovered that there was a need to complete a Revised Final FS to consider a remedial alternative that allows for UU/UE. The Revised Final FS is underway. OFF-SITE MIGRATION POTENTIAL - None. CLEANUP/EXIT STRATEGY -Follow-on activities for the RI/FS phase will include completion of the PP and the DD. The cleanup/exit strategy is anticipated to be soil removal, LUCs, and FYRs indefinitely.

17775.1037 RIA-015 FORMER COAL AND ASH PILE AREA

Env Site ID: RIA-015

Cleanup Site: FORMER COAL AND ASH PILE AREA

Alias: #

Regulatory Driver: CERCLA

RIP Date: 9/30/2028 RC Date: 9/30/2028 RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR NPL Status: No

SC Date: 9/30/2058

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	12/1/2010	2/27/2011
SI:	1/1/2014	6/30/2015
RI/FS:	5/1/2018	9/30/2026
RD:		
IRA:	5/1/2018	9/30/2028
RA(C):	10/1/2026	9/30/2028
RA(O):		
LTM:	10/1/2028	9/30/2058

Site Narrative: SITE LOCATION AND DESCRIPTION - Site 17775.1037 (RIA-015) (Former Coal and Ash Pile Storage Area) is approximately 4-acres in size. The site is bordered by the fence line of the Joint Manufacturing Technology Center to the north, Building 299 and a parking lot to the east, Sylvan Drive to the south, and Sylvan Drive and the water tower to the west. The site is bisected by railroad tracks. A 24inch reinforced concrete culvert is also located at the northwestern corner of the Coal Pile Storage Area. This culvert directs storm water from the Coal Pile Storage Area to the wooded area east of the Ash Pile Storage Area. HISTORICAL USE / DESCRIPTION OF RELEASE - The east area was used as both a coal pile storage area as well as a coal ash storage area previously before coal storage. Ash generated from coal combustion at the Central Heat Plant was piled vertically at the Ash Pile Storage Area. The Ash Pile Storage Area is approximately 0.5-acre and has been used for storage of ash intermittently over the years on an as-needed basis. FUTURE LAND USE - The current and reasonably anticipated future land use is industrial. MEDIA OF CONCERN - Soil and groundwater. CONTAMINANTS OF CONCERN - Metals and PAHs. SIGNIFICANT INVESTIGATIONS / CLEANUP ACTION COMPLETED – A Preliminary Site Assessment was conducted in December 2010 with an associated report being generated in February 2011. In May 2015, a Coal and Ash Pile Area Assessment was completed. A Non-Time-Critical Removal Action (NTCRA) for the Coal Pile Storage Area was started in February 2020 and was completed in December 2021, upon finalization of the Removal Action Completion Report. Site investigation reports indicated that leaching of multiple metals and PAHs from the coal and ash has concentrated the metals and PAHs in the soil and groundwater. During RI drilling activities in the area north of Beck Avenue in 2021, additional coal and coal ash was discovered in the subsurface. RI activities are currently ongoing. Based on the discovery of additional buried coal, coal ash, and contaminated soil in the North Area (East Sector) of the site during RI field activities, there is a need to conduct an NTCRA in that area. KEY DOCUMENTS IN PROGRESS – The RI is underway. OFF-SITE MIGRATION POTENTIAL – None. CLEANUP/EXIT STRATEGY – The cleanup/exit strategy for the soil is limited excavation with off-site disposal, LUCs to limit exposure to the soil, and FYRs. LUCs associated with the Coal Pile Storage Area NTCRA requirements will be integrated into the

Land Use Control Implementation Plan (LUCIP) currently at the installation and integrated into the final remedy. The groundwater cleanup/exit strategy is unknown at this time due to the extent of the contamination not yet being determined during the RI.

17775.1038_RIA-016_PFAS

Env Site ID: RIA-016 Cleanup Site: PFAS

Alias: #

Regulatory Driver: CERCLA

RIP Date: 9/30/2032 RC Date: 9/30/2032 RC Reason: Not assigned

SC Date: 9/30/2032

Program: ENV Restoration, Army

Subprogram: IR NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	5/21/2018	9/19/2019
SI:	9/20/2019	7/15/2023
RI/FS:	7/16/2023	9/30/2032
RD:		
IRA:		
RA(C):		
RA(O):		
LTM:		

Site Narrative: Per direction from Deputy Chief of Staff (DCS) G-9, Site 17775.1038 (RIA-016) was created to account for all per- and polyfluoroalkyl substances (PFAS) costs at the installation. The PA/SI Report was finalized in FY23 and identifies known releases of PFAS to the environment. There were 15 total areas of potential interest (AOPIs) identified during the PA, with 14 of the AOPIs being sampled during the SI and recommended to advance for further investigation in an RI. CLEANUP EXIT STRATEGY – An RI/FS will be completed.

17775.1030 RIA-001-R-01 TEST RANGE

Env Site ID: RIA-001-R-01 Cleanup Site: TEST RANGE

Alias: #

Regulatory Driver: CERCLA

RIP Date: 2/18/2014 RC Date: 2/18/2014

RC Reason: All Required Cleanup(s) Completed

SC Date: 9/30/2054

Program: ENV Restoration, Army

Subprogram: MR NPL Status: No

Hazardous Ranking Score: 0

RRSE: N/A MRSPP: 10

Phase	Start	End
PA:	8/8/2002	5/1/2003
SI:	9/30/2003	3/31/2005
RI/FS:	6/30/2006	2/18/2014
RD:		
IRA:		
RA(C):	6/30/2006	2/18/2014
RA(O):		
LTM:	2/18/2014	9/30/2054

Site Narrative: SITE LOCATION AND DESCRIPTION - Site 17775.1030 (RIA-001-R-01) (Former Test Range) is located within the Proving Ground. The Proving Ground is located on the eastern end of the RIA. The Proving Ground occupies approximately 5-acres of land of which Site 17775.1030 is about 1-acre. Site 17775.1030 was composed of two parts - the Firing Points and the Impact Area (bunkers/berm) identified as Bunkers 44 and 45. These are armor-plate-lined concrete bunkers with openings containing sand traps. The bunkers are embedded in an earthen levee that is part of the floodwall of the Mississippi River. HISTORICAL USE / DESCRIPTION OF RELEASE - The site was established in 1904 to test fire various weapons including (but not limited to) field siege and mountain-gun carriages, French 75 recoil mechanisms, 155-millimeter (mm) French howitzers machine guns, and 105mm howitzers. FUTURE LAND USE – The current and reasonably anticipated future land use is industrial. MEDIA OF CONCERN – Soil. CONTAMINANTS OF CONCERN – Munitions and Explosives of Concern (MEC). SIGNIFICANT INVESTIGATIONS / CLEANUP ACTIONS COMPLETED - MEC that remained following termination of testing activities in the late 1980s has been removed as an NTCRA. Reports and activities for the project include a September 2006 Project Management Plan (PMP), December 2008 Work Plan (WP), January 2011 Revised PMP, June 2011 Revised WP, July 2011 NTCRA field activities, March 2012 Construction Completion Report, June 2013 Revised LUCIP, one year of Quarterly Long-Term Management (LTM) reports, January 2014 Final Revised Action Memorandum, and Annual LTM inspections and reports. The most recent annual LUCIP inspection report was completed May 30, 2023. The first FYR was completed in fall 2019. KEY DOCUMENTS IN PROGRESS - The second FYR is underway. OFF-SITE MIGRATION POTENTIAL – None. CLEANUP/EXIT STRATEGY – The cleanup/exit strategy that was implemented was an NTCRA followed by LUCs with annual inspections and FYRs, which are anticipated to continue indefinitely.

17775.1035_CC-RIA-64_Bldg 64

Env Site ID: CC-RIA-64 **Cleanup Site:** Bldg 64

Alias: BLDG 64

Regulatory Driver: RCRA-D

RIP Date: 10/31/2014
RC Date: 9/30/2054
RC Reason: Not assigned

SC Date: 9/30/2054

Program: Compliance-related Cleanup

Subprogram: CC NPL Status: No

Hazardous Ranking Score: 0

RRSE: N/A MRSPP:

Phase	Start	End	
RFA:	1/31/1992	1/31/1993	
CS:	5/31/1993	4/30/2003	
RFI/CMS:	1/31/2002	3/31/2005	
DES:	3/31/2005	8/31/2006	
IRA:	9/30/2005	1/31/2006	
CMI(C):	9/30/2006	12/31/2009	
CMI(O):	10/31/2014	9/30/2054	
LTM:			

Site Narrative: SITE LOCATION AND DESCRIPTION - Site 17775.1035 (CC-RIA-64) (Building 64) is approximately 40,000-square feet U-shaped constructed of limestone masonry with high walls (27-feet) and is centrally located on the RIA. HISTORICAL USE / DESCRIPTION OF RELEASE - Building 64 was built in 1878 and identified as a Natural Historic Landmark. It is currently vacant. From the 1950s through the 1980s it was an electroplating shop. The courtyard is used as a parking area. Prior to being a parking lot, the courtyard contained Bldg. 65 which was used as a plating waste treatment, recycling and plating chemical storage facility. Sources of the metals, VOC, and SVOC contamination appear to be associated with spills and releases seeping through foundation cracks and leaks along plating related piping between the two buildings and sewers from each of the two buildings. FUTURE LAND USE – The current and reasonably anticipated future land use is industrial. Building 64 is planned for storage space and the courtyard as a parking area. MEDIA OF CONCERN – Soil and groundwater. CONTAMINANTS OF CONCERN - Contaminants at the site included chlorinated VOCs (TCE, trichloroethane (TCA) and related degradation products) and cyanide in the soils and groundwater; chromium in the soils, groundwater, and concrete flooring; and cadmium in the soils and concrete flooring. SIGNIFICANT INVESTIGATIONS / CLEANUP ACTIONS COMPLETED - In 1994, the electroplating operation was decommissioned and underwent an environmental cleanup for all surfaces above the ground. Subsequent investigations have addressed the cleanup of the structure and underlying soil and groundwater which were impacted by the plating and associated activities. The investigation and cleanup of the building is being managed as a Resource Conservation and Recovery Act (RCRA) closure because the IEPA has determined that the prior electroplating operations at the facility included Hazardous Waste Management Units (HWMU) and the IEPA issuance of a Notice of Violation (NOV) for improper waste handling. The IEPA has instructed the Department of the Army to undertake an RCRA closure of the site. Cleanup at the site included the removal of contaminated concrete and soil from within the building and placement of bioremediation material within open excavations. The site was backfilled with limestone dust. Additionally, a concrete cap was installed within the building and in the courtyard to meet the IEPA Tiered Approach to Cleanup

Objectives (TACO) requirements. These requirements are cited in the final soil corrective measures completion report submitted to the IEPA in July 2007. Semi-annual groundwater monitoring has continued at the site. Generation and IEPA approval of the semi-annual groundwater monitoring reports has been completed to date. A site-specific LUCIP has been incorporated into the base-wide master plan. KEY DOCUMENTS IN PROGRESS — Groundwater monitoring reports are completed semi-annually. OFF-SITE MIGRATION POTENTIAL — None. CLEANUP/EXIT STRATEGY — Groundwater monitoring wells that were not impacted by bioremediation may require further action (e.g., remedial injections) prior to site closure. It is anticipated that groundwater monitoring and LUCs will continue indefinitely. Frequency of sampling and number of analytes monitored may be reduced in the future based on evaluation of recent analytical results and data trends.

SITE SUMMARY

SITE CLOSEOUT SUMMARY

CRL ID	Site Name	Site Closeout Date
17775.1002	RIA-002_USTs 8,9,10,11 at BLDG 222	9/30/1988
17775.1003	RIA-004_ASH PILE	5/31/1988
17775.1004	RIA-005_AST AT BLD 222 TEMPORARY	5/31/1988
17775.1005	RIA-006_LANDFILL CONSTRUCTION DEBRIS	5/31/1988
17775.1006	RIA-008_OLD QUARRY FILLED WITH WATER	9/30/2003
17775.1007	RIA-009_BURIAL SITE NE BLD 342	5/31/1988
17775.1008	RIA-010_FORMER SHELLBREAKER AND DRMO STG	5/31/1988
17775.1009	RIA-011_CASING BURIAL AREA MUN BURIAL	5/31/1988
17775.1010	RIA-012_HAZARDOUS WASTE STG AREA BLD 242	5/31/1988
17775.1011	RIA-013A_HAZ SATELLITE STG AREAS BLD 33	7/31/1994
17775.1012	RIA-013B_HAZ SATELLITE STG AREAS BLD 64	5/31/1988
17775.1013	RIA-013C_HAZ SATELLITE STG AREAS BLD 65	5/31/1988
17775.1014	RIA-013D_HAZ SATELLITE STG AREAS BLD 69	5/31/1988
17775.1015	RIA-013E_HAZ SATELLITE STG AREAS BLG 106	5/31/1988
17775.1016	RIA-013F_HAZ SATELLITE STG AREAS BLG 108	5/31/1988
17775.1017	RIA-013G_HAZ SATELLITE STG AREAS BLD 112	5/31/1988
17775.1018	RIA-013H_FORMER HAZ SATELLITE STG AREAS	5/31/1988
17775.1019	RIA-013I_FORMER SATELLITE STG AREA BLD 1	5/31/1988
17775.1020	RIA-013K_HAZ SATELLITE STG AREA BLD 139	5/31/1988
17775.1021	RIA-013L_HAZ SATELLITE STG AREA BLD 208	5/31/1988
17775.1022	RIA-013M_HAZ SATELLITE STG AREA BLD 220	5/31/1988
17775.1023	RIA-013N_HAZ SATELLITE STG AREAS BLD 220	5/31/1988
17775.1024	RIA-013O_HAZ SATELLITE STG AREAS BLD 222	5/31/1988
17775.1025	RIA-013P_HAZ SATELLITE STG AREAS BLD 230	5/31/1988
17775.1026	RIA-013R_HAZ SATELLITE STG AREAS BLD 250	5/31/1988
17775.1027	RIA-013S_HAZ SATELLITE STG AREAS BLD 299	5/31/1988
17775.1028	RIA-013T_HAZ SATELLITE STG AREAS BLD 337	5/31/1988
17775.1033	CC-RIA-54_BLDG 54 Oil Storage Building	8/31/2010
17775.1036	CC-RIA-65_BLDG 65 Plating Wastewater Tre	9/30/2012
17775.1039	CC-RIA-04_Ash Pile	9/30/2010
17775.1040	CC-RIA-07_Former Construction Landfill	7/31/2014

COMMUNITY INVOLVEMENT

Community Involvement Plan (Date Last Reviewed):	8/15/2020		
Technical Review Committee Establishment Date:	N/A		
Restoration Advisory Board (RAB) Establishment Date:	N/A		
RAB Adjournment Date:	N/A		
RAB Adjournment Reason:	Lack of interest.		
Reasons for Not Establishing RAB:	No sufficient, sustained community interest in a RAB has been expressed by the community		
RAB Date of Solicitation from Community:	1/30/2022		
RAB Results of Solicitation:	Due to a poor response and a lack of interest to the 2007, 2009, 2011, 2013, 2016, 2017, 2019, and 2022 solicitations, a RAB has not been established.		
Current Technical Assistance for Public Participation (TAPP):	N/A		
TAPP Title:	N/A		
Potential TAPP:	N/A		
Administrative Record Location:	Rock Island Arsenal Vault, 1st floor Building 102, Rodman Avenue, Rock Island, IL 61201		
Information Repository Location:	Rock Island Arsenal Vault, 1st floor Building 102, Rodman Avenue, Rock Island, IL 61201		

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Status	Review Type	Start Date	End Date	Plans Narrative	Actions Narrative	Results Narrative
Completed	FYR	10/23/2018	11/7/2019	N/A	N/A	The remedy remains protective. Site RIA-001, RIA-014, and RIA-001-R-01.
Underway	FYR	2/18/2023	6/18/2024	To be determined	To be determined	To be determined