

Final

Proposed Plan

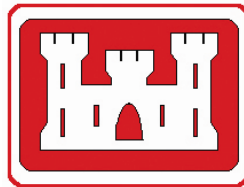
CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift

Former Ravenna Army Ammunition Plant

Portage and Trumbull Counties, Ohio

Contract No.: W912QR-12-D-0002
Delivery Order: 0003

Prepared for:



United States Army Corps of Engineers
Louisville District
600 Dr. Martin Luther King, Jr. Place
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March 11, 2020

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REPORT DOCUMENTATION PAGE

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14. ABSTRACT This Proposed Plan (PP) presents the conclusions and recommendations from the CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift Remedial Investigation. A hydraulic lift was originally suspected of leaking hydraulic fluid into soil beneath Building 1034; however, no leak was located. No Chemicals of Concern (COCs) were identified in the Human Health Risk Assessment (HHRA) for subsurface soil or groundwater. The Ecological Risk Assessment (ERA) found there were no important ecological resources at the site. There are no ecological receptors or complete pathways for ecological receptors. The site was also investigated for the possible presence of "free product" or mobile light non-aqueous phase liquid. No "free product" was identified. No unacceptable risks were identified for human health or ecological receptors. The site is recommended for no further action.					
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CONTRACTOR STATEMENT OF INDEPENDENT TECHNICAL REVIEW

Parsons has completed the Final Proposed Plan for CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift at the former Ravenna Army Ammunition Plant, Ravenna, Ohio. Notice is hereby given that an independent technical review has been conducted that is appropriate to the level of risk and complexity inherent in this project. During the independent technical review, compliance with established policy principles and procedures, utilizing justified and valid assumptions was verified. This included review of data quality objectives; technical assumptions, methods, procedures, and materials to be used; the appropriateness of data used and the level of data obtained; and the reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing United States Corps of Engineers policy.

Independent Technical Reviewer:

Dan Griffiths, CPG
Technical Director



(Signature)

March 11, 2020
(Date)

Plan Preparer/Reviewer:

Edward Heyse, Ph.D., P.E.
Project Manager



(Signature)

March 11, 2020
(Date)

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Final

**Proposed Plan
CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio**

**Contract No.: W912QR-12-D-0002
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**Prepared for:
U.S. Army Corps of Engineers, Louisville District
600 Dr. Martin Luther King Jr. Place
Louisville, Kentucky 40202-2267**

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March 11, 2020

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ARNG = Army National Guard
DERR = Division of Environmental Response and Restoration
NEDO = Northeast District Office
OHARNG = Ohio Army National Guard
Ohio EPA = Ohio Environmental Protection Agency
RVAAP = Ravenna Army Ammunition Plant
REIMS = Ravenna Environmental Information Management System
SWDO = Southeast District Office
USACE = United States Army Corps of Engineers

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ATTACHMENT

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LIST OF ACRONYMS

amsl	above mean sea level
AOC	Area of Concern
ARNG	Army National Guard
bgs	below ground surface
BUSTR	Ohio Bureau of Underground Storage Tank Regulation
CC	Army Environmental Compliance-Related Cleanup Program
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CJAG	Camp James A. Garfield Joint Military Training Center
CMCOPCs	Contaminant Migration Chemicals of Potential Concern
COCs	Chemicals of Concern
COPCs	Chemicals of Potential Concern
DERR	Division of Environmental Response and Restoration
DRO	diesel range organics
ECC	Environmental Chemical Corporation
ERA	Ecological Risk Assessment
FWCUGs	Facility-Wide Cleanup Goals
HHRA	Human Health Risk Assessment
HQ	Hazard Quotient
MOR	motor oil range organics
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NEDO	Northeast District Office
NGT	National Guard Trainee
OHARNG	Ohio Army National Guard
Ohio EPA	Ohio Environmental Protection Agency
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PP	Proposed Plan
REIMS	Ravenna Environmental Information Management System

LIST OF ACRONYMS (Continued)

RI	Remedial Investigation
ROD	Record of Decision
RSLs	Regional Screening Levels
RVAAP	Ravenna Army Ammunition Plant
SAIC	Science Applications International Corporation
SARA	Superfund Amendments and Reauthorization Act
SRC	site-related chemical
SVOCs	semivolatile organic compounds
SWDO	Southeast District Office
TPH	total petroleum hydrocarbons
USACE	United States Army Corps of Engineers
U.S. Army	United States Department of the Army
USEPA	United States Environmental Protection Agency
VOCs	volatile organic compounds

1.0 INTRODUCTION

This Proposed Plan (PP) presents the recommendations to address environmental media within the Compliance Restoration Site CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift Area of Concern (AOC) at the former Ravenna Army Ammunition Plant (RVAAP) (Figure 1). CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift is located south of the intersection of George Road and South Service Road just south of Building 1037 in the former Administration Area in the south-central portion of the former RVAAP, now known as Camp James A. Garfield Joint Military Training Center (CJAG) (Figure 2). The AOC was established to represent the operational area of the former underground hydraulic lift inside Building 1034 (Figure 3). The United States Department of the Army (U.S. Army), in coordination with the Ohio Environmental Protection Agency (Ohio EPA), is issuing this PP to provide the public with information to comment upon the selection of an appropriate response action. The remedy will be selected for the AOC after all comments submitted during the 30-day public comment period are considered. Therefore, the public is encouraged to review and comment on the No Further Action recommendation for this site presented in this PP.

The U.S. Army is issuing this PP as part of its public participation responsibilities under Section 117(a) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986 and Section 300.430(f)(2) of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) (40 Code of Federal Regulations 300). Selection and implementation of a remedy is consistent with the requirements of the Ohio EPA Director's Final Findings and Orders, dated June 10, 2004.

This PP summarizes information that can be found in greater detail in the *Remedial Investigation (RI) Report CC RVAAP-74*

Public Comment Period:

May 01, 2020, to May 30, 2020

Public Meeting:

The U.S. Army will hold an open house and public meeting to present the conclusions and additional details presented in the *Remedial Investigation CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift* (Parsons 2019). Oral and written comments will also be accepted at the meeting. The open house and public meeting are scheduled for 6:00 PM, May 14, 2020, at the Charleston Town Hall, 6368 Rock Spring Road, Ravenna, OH 44266.

Information Repositories:

Information used in selecting the remedy is available for public review at the following locations:

Reed Memorial Library

167 East Main Street
Ravenna, Ohio 44266
(330) 296-2827

Hours of operation:

9 AM-9 PM Monday-Thursday
9 AM-6 PM Friday
9 AM-5 PM Saturday
1 PM-5 PM Sunday

Newton Falls Public Library

204 South Canal Street
Newton Falls, Ohio 44444
(330) 872-1282

Hours of operation:

9 AM-8 PM Monday-Thursday
9 AM-5 PM Friday and Saturday

Online

<http://www.rvaap.org/>

The **Administrative Record File**, containing information used in selecting the remedy, is available for public review at the following location:

Camp James A. Garfield Joint Military Training Center (former Ravenna Army Ammunition Plant)

Environmental Office
1438 State Route 534 SW
Newton Falls, Ohio 44444
(614) 336-6136

Note: Access is restricted to Camp James A. Garfield Joint Military Training Center, but an appointment to review the Administrative Record File can be scheduled.

Building 1034 Motor Pool Hydraulic Lift (Parsons 2019), and other documents contained in the Administrative Record File for the AOC. This AOC includes an underground hydraulic lift that was suspected to have leaked hydraulic fluid (mineral oil) because hydraulic fluid needed to be added when the lift was in

operation. An unsuccessful attempt was made to locate the leak, and the lift was subsequently taken out of service. The underground hydraulic lift is in place but no longer active and no Chemicals of Concern (COCs) were identified in soil or groundwater. Surface water and sediment are not present at this AOC. The U.S. Army has determined that No Further Action is required for soil and groundwater at CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift.

The U.S. Army encourages the public to review the site background documents to gain a more comprehensive understanding of the AOC, activities that have been conducted to date, and the rationale for the No Further Action recommendation.

2.0 RVAAP DESCRIPTION AND BACKGROUND

CJAG is located in northeastern Ohio within Portage and Trumbull counties. CJAG is approximately three miles east/northeast of the City of Ravenna and one mile north/northwest of the City of Newton Falls. CJAG is federally owned, approximately 11 miles long and 3.5 miles wide. CJAG is bounded by State Route 5, the Michael J. Kirwan Reservoir, and the CSX System Railroad to the south; Garret, McCormick, and Berry Roads to the west; the Norfolk Southern Railroad to the north; and State Route 534 to the east. In addition, CJAG is surrounded by the communities of Windham, Garrettsville, Charlestown, and Wayland.

As of September 2013, administrative accountability for the entire 21,683-acre facility has been transferred to the United States Property & Fiscal Officer for Ohio and the property subsequently licensed to the Ohio Army National Guard (OHARNG) for use as a military training site.

3.0 CC RVAAP-74 BUILDING 1034 MOTOR POOL HYDRAULIC LIFT DESCRIPTION AND BACKGROUND

The original building was constructed in 1941

and was demolished in 2007. The current portion of the building containing the lift was constructed in 1971 (Photograph 1). Three features remain beneath the floor of the southeastern corner of Building 1034 that are associated with former AOC operations: an oil/water separator, and the front and rear axle portions of the hydraulic lift (Figure 3). The in-ground hydraulic lift is situated in two separate underground vaults (Photograph 2). The smaller (eastern) vault contains a fixed hydraulic lift that fitted under the rear axle of a vehicle. The larger, “L” shaped (western) vault contained a separate adjustable hydraulic lift for the front axle and a storage tank for hydraulic fluid. The position of the front axle lift could be adjusted to accommodate different sized vehicles. The lift system was suspected of leaking because hydraulic fluid needed to be added when the lift was in operation. An unsuccessful attempt was made to locate the leak, and the lift was subsequently taken out of service (Science Applications International Corporation [SAIC] 2011). The date that the lift was taken out of service was not recorded.



Photograph 1: Outside of Building 1034. View is from the back of the building facing west. The hydraulic lift is just inside the left roll-up door.

The underground hydraulic lift is in place but is no longer active. Building 1034 is currently unoccupied and used for storage; however, the OHARNG may remodel the building for use as a maintenance building. Although there are currently no plans to demolish the building; this potential future scenario was considered for the evaluation of the unrestricted use/unrestricted exposure scenario and for ecological receptor consideration.



Photograph 2: Hydraulic lift and oil water separator vault in the floor of Building 1034. Photo facing East from Southeast corner of inside Building 1034.

The following environmental investigations have been completed for the CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift areas:

- *Historical Records Review Report for the 2010 Phase I Remedial Investigation Services at Compliance Restoration Sites (9 Areas of Concern), Ravenna Army Ammunition Plant, Ravenna, Ohio (SAIC 2011).*
- *Remedial Investigation for CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift (Parsons 2019).*

4.0 CC RVAAP-74 BUILDING 1034 MOTOR POOL HYDRAULIC LIFT CHARACTERISTICS

The hydraulic lift is no longer active; however, during the historical records review, no documents were discovered regarding the specific year the underground hydraulic lift was removed from service. The hydraulic lift system remains in place beneath the floor of Building 1034. Therefore, the primary contaminant source has been removed (i.e., no continued leaking). Secondary sources (e.g., contaminated media) evaluated as part of this RI are described in the following sections.

The native soil at CC RVAAP-74 was mapped as Mahoning silt loam (0-2 % slopes) and directly adjacent native soil as Mahoning silt

loam (2-6 % slopes). However, surface soils could not be collected, observed, and documented at CC RVAAP-74 because the AOC is covered by a concrete floor. Boring logs generated during drilling and logging of the soil beneath the floor indicate that the soil is predominantly yellowish-brown/brown silty clay, which is assumed to be Hiram Till glacial deposits or fill material from site construction (Parsons 2019). A black soil layer was observed in at least 14 of the boring logs. The black layer was about 2 inches thick and located at approximately 7.5 feet below grade. The black soils contain plant fibers and woody material indicating that this soil layer is colored black because of the presence of this natural organic material. This black layer is likely the original topsoil and plant root mat before fill material was placed on top of it for site construction.

Although borings at the AOC have not been advanced to the top of bedrock, the bedrock beneath the area is assumed to be the upper portion of the Pennsylvanian Pottsville Formation (Sharon Sandstone). The depth to bedrock in this area is estimated to be approximately 20 feet below ground surface (bgs) (Parsons 2019).

The hydrogeology for the CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift is based on data presented in Facility-Wide Groundwater Monitoring Annual Report (TEC-Weston Joint Venture 2016) and from boring logs and three wells installed at the site during the RI (Parsons 2019). Three groundwater monitoring wells (074MW-001, 074MW-002, and 074MW-003) were installed between 9 and 16 February 2018 (Parsons 2019). These monitoring wells were installed with screens set approximately 10-20 feet bgs across the water table and local groundwater flow is towards the southeast. The closest bedrock monitoring well is FWGmw-016, located approximately 1,150 feet south of the AOC. This well monitors the Sharon Sandstone bedrock aquifer and is screened from 54.5- 64.5 feet bgs. The depth to groundwater in this monitoring well location was approximately 17 feet bgs during the June

2018 groundwater monitoring event, with a potentiometric elevation of 997.04 feet above mean sea level (amsl). The generalized groundwater flow direction within the Sharon Sandstone aquifer beneath this area is to the east (TEC-Weston Joint Venture 2016). Monitoring well 069MW-003 is located approximately 640 feet northwest of the AOC and is screened between 23 and 28 feet bgs within the weathered bedrock of the Upper Sharon Aquifer. In December 2018, the elevation of the water in 069MW-003 was 1012.80 feet amsl.

Surface water bodies are not present within CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift or its immediate vicinity. During storm events, precipitation drains from the building roof and either runs off the land following topography toward the surrounding storm sewer network that drains the adjacent area or infiltrates into the subsurface. Infiltration outside the building is likely limited by the presence of silty and clayey soils. Infiltration does not occur within the building (Parsons 2019).

Samples used for decision making in the RI were collected by Environmental Chemical Corporation (ECC) in 2013 and by Parsons in 2018. Initial field work was conducted in April 2013 and included advancing 18 soil borings and collecting 30 subsurface soil samples. Three additional soil borings were advanced and five subsurface soil samples were collected in August 2013. Additional field work was conducted by Parsons in February 2018. Four subsurface soil samples were collected from three soil borings. Four groundwater grab samples were collected from 4 well points (used to determine placement of the permanent groundwater monitoring wells). Three permanent groundwater monitoring wells were installed, and four rounds of quarterly groundwater sampling were conducted between March and December 2018. Soil samples were analyzed for inorganic chemicals (metals), total petroleum hydrocarbons (TPH) (C10-C20 and C20-C34), semivolatile organic compounds (SVOCs), volatile organic compounds (VOCs),

and polychlorinated biphenyls (PCBs). Groundwater sample analyses included VOCs, polycyclic aromatic hydrocarbons (PAHs), and PCBs (Parsons 2019).

Analytical results were initially evaluated to determine whether the chemical was a site-related chemical (SRC). This was determined based on data quality, comparison to background, and eliminating essential nutrients. In addition, a weight of evidence approach was used to determine if chemicals had a low detection frequency. The following SRCs were identified for subsurface soil:

- Two inorganics: cadmium and silver.
- Two petroleum hydrocarbons: TPH (C10-C20 and C20-C34).
- Twenty (20) SVOCs: 2-methylnaphthalene, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, benzoic acid, bis(2-ethylhexyl)phthalate, chrysene, dibenzofuran, di-n-butyl phthalate, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene.
- Two VOCs: 2-butanone (methyl ethyl ketone) and acetone.

The following SRCs were identified for groundwater:

- Four SVOCs: acenaphthene, fluorene, naphthalene, and phenanthrene
- Two VOCs: 2-butanone (methyl ethyl ketone) and acetone

The nature and extent of SRCs in subsurface soil and groundwater at CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift was sufficiently defined to perform a risk assessment (Parsons 2019).

No “free product” or nonaqueous-phase liquid was present in monitoring wells. Surface water and sediment are not present at this AOC.

Fate and transport modeling eliminated all SRCs in soil as potential future risks to groundwater. No Final Contaminant Migration Chemicals of Potential Concern (CMCOPCs) were identified for the CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift AOC (Parsons 2019).

5.0 SCOPE AND ROLE OF RESPONSE ACTION

The OHARNG future Land Use for CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift is for military training. Unrestricted (Residential) Land Use was evaluated using the Residential Receptor exposure scenario to assess baseline conditions (see Section 6.1). The Resident Receptor is the Representative Receptor for Unrestricted (Residential) Land Use, and the National Guard Trainee (NGT) is the Representative Receptor for Military Training Land Use. Military Training Land Use is the most likely future use and the Unrestricted (Residential) Land Use allows for full use without restrictions such as Land Use Controls. Based on the results of the Ecological Risk Assessment (ERA) (see Section 6.2), no ecological risks were identified for the AOC.

6.0 SUMMARY OF HUMAN AND ECOLOGICAL RISKS

6.1 Human Health Risk Assessment

A Human Health Risk Assessment (HHRA) was performed during the RI to identify COCs and provide a risk management evaluation to determine if remediation is required under CERCLA based on potential risks to human receptors. The exposure media and depths evaluated in the HHRA for the Resident Receptor (Adult and Child) were subsurface soil (1-13 feet bgs) and groundwater. Surface soil (0-1 foot bgs), surface water, and sediment are not present at CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift; therefore, an HHRA

and ERA were not performed on surface soil, surface water, or sediment as part of the RI.

RI data (Parsons 2019) were used to determine SRCs, Chemicals of Potential Concern (COPCs), and COCs in accordance with the *Final Facility-Wide Cleanup Goals Report* (SAIC 2010). The final list of COPCs includes those SRCs where sample results from any depth within the area exceeded the most stringent Facility-Wide Cleanup Goals (FWCUGs) for Resident Receptor and NGT at a target cancer risk level of 1×10^{-6} and non-carcinogenic target Hazard Quotient (HQ) of 0.1. United States Environmental Protection Agency (USEPA) Residential Regional Screening Levels (RSLs) were used for those analytes with no established FWCUGs. Because hydraulic fluid is derived from petroleum products; the Ohio EPA-approved Work Plans (ECC 2012 and Parsons 2017) called for analyzing petroleum fractions that are not normally part of a CERCLA investigation. Petroleum has no FWCUGs (SAIC 2010). Because diesel range organics (DRO) and motor oil range organics (MOR), referred to as TPH (C10-C20 and C20-C34) in this report, are petroleum compounds, the U.S. Army and Ohio EPA have agreed to use Ohio Bureau of Underground Storage Tank Regulation (BUSTR) Action Levels (Ohio Administrative Code, 1301:7-9-13, effective 1 July 2012) as screening criteria following the CERCLA process to evaluate whether TPH (C10-C20 and C20-C34) occur at concentrations that are of concern to human and/or ecological receptors and, therefore, require remediation.

Two COPCs were identified in subsurface soil: TPH (C20-C34) and benzo(a)pyrene. No COPCs were identified in groundwater.

COPCs were then evaluated to identify COCs. COCs were determined by comparing the exposure point concentrations to FWCUGs or, where not developed or outdated, RSLs corresponding to a target cancer risk of 1×10^{-5} or target HQ of 1 or Ohio BUSTR Class 1 Soil Action Levels. The HHRA performed for CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift evaluated Unrestricted Land Use

(Resident Receptor), which is protective of all receptors, for subsurface soil (1-13 feet bgs) and groundwater. There were no COCs identified for CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift (Parsons 2019).

6.2 Ecological Risk Assessment

The purpose of the ERA performed during the RI was to evaluate the potential for chemicals detected in environmental media at CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift to adversely affect ecological receptors. The ERA found that important ecological resources are not present. There are no ecological receptors nor pathways for ecological receptors. Therefore, No Further Action is required at CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift for the protection of ecological receptors (Parsons 2019).

7.0 CONCLUSIONS

Based on results of the RI, no remedial actions are required for CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift. Further investigation is not warranted for the following reasons: (1) the nature and extent of chemicals detected in soil at the AOC has been characterized; (2) no COCs posing risks to human health were identified at the AOC; and (3) no further investigation or action was recommended in the ERA. Groundwater monitoring and fate-and-transport modeling determined that groundwater is not impacted by soil contaminants, and no “free product” or nonaqueous-phase liquid was present in monitoring wells. Surface water and sediment are not present at this AOC. Therefore, No Further Action is required for soil or groundwater at CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift and Unrestricted (Residential) Land Use is appropriate for this AOC.

Because a No Further Action determination has been made, no monitoring requirements have been identified for CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift. The three groundwater monitoring wells (074MW-001,

074MW-002, and 074MW-003) will be left in place and incorporated into the Facility Wide Groundwater Monitoring Program and use within this program will be determined in the future.

8.0 COMMUNITY PARTICIPATION

8.1 Community Participation

Public participation is an important component of the remedy selection. The U.S. Army, in coordination with Ohio EPA, is soliciting input from the community on the No Further Action recommendation. The comment period extends from May 01, 2020 to May 30, 2020. This period includes a public meeting at which the U.S. Army will present this PP. The U.S. Army will accept oral and written comments at this meeting.

8.2 Public Comment Period

The 30-day comment period is from May 01, 2020 to May 30, 2020, and provides an opportunity for public involvement in the decision-making process for the proposed action. The public is encouraged to review and comment on this PP. All public comments will be considered by the U.S. Army and Ohio EPA before selecting a remedy. During the comment period, the public is encouraged to review documents pertinent to CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift. This information is available at the Information Repository and online at www.rvaap.org. To obtain further information, contact Katie Tait of the CJAG Environmental Office at kathryn.s.tait.nfg@mail.mil.

8.3 Written Comments

If the public would like to comment in writing on this PP or other relevant matters, please deliver comments to the U.S. Army at the public meeting, email, or mail written comments (postmarked no later than May 30, 2020).

8.4 Public Meeting

The U.S. Army will hold an open house and public meeting on May 14, 2020, at 6:00 PM, in the Charleston Town Hall, 6368 Rock Spring

Road, Ravenna, Ohio 44266 to present the PP with the preferred Alternative, and accept comments. This meeting will provide an opportunity for the public to comment on the proposed action.

POINTS OF CONTACT FOR WRITTEN COMMENTS

Mailing Address:

Camp James A. Garfield Joint Military Training Center

Environmental Office
Attn: Katie Tait
1438 State Route 534 SW
Newton Falls, Ohio 44444

Email Address:
kathryn.s.tait.nfg@mail.mil

8.5 Army Review of Public Comments

The U.S. Army will review the public's comments as part of the process in reaching a final decision for the most appropriate action to be taken. The Responsiveness Summary, a document that summarizes the U.S. Army's responses to comments received during the public comment period, will be included in the Record of Decision (ROD). The U.S. Army's final choice of action will be documented in the ROD.

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(330) 296-2827

Hours of operation:

9 AM-9 PM Monday-Thursday
9 AM-6 PM Friday
9 AM-5 PM Saturday
1 PM-5 PM Sunday

Newton Falls Public Library

204 South Canal Street
Newton Falls, Ohio 44444
(330) 872-1282

Hours of operation:

9 AM-8 PM Monday-Thursday
9 AM-5 PM Friday and Saturday

Online

<http://www.rvaap.org/>

ADMINISTRATIVE RECORD FILE

Camp James A. Garfield Joint Military Training Center (former Ravenna Army Ammunition Plant)

Environmental Office
1438 State Route 534 SW
Newton Falls, Ohio 44444
(614) 336-6136

Note: Access is restricted to Camp James A. Garfield, but an appointment to review the Administrative Record File can be scheduled.

GLOSSARY OF TERMS

Administrative Record: a collection of documents, typically reports and correspondence, generated during site investigation and remedial activities. Information in the Administrative Record represents the information used to select preferred alternatives.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA): a federal law passed in 1980, commonly referred to as the Superfund Program. It provides liability, compensation, cleanup, and emergency response in connection with the cleanup of inactive hazardous substance release sites that endanger public health or the environment.

Contaminant Migration Chemicals of Potential Concern (CMCOPCs): a chemical substance specific to an area of concern that potentially poses significant potential to leach to groundwater at a concentration above human health risks goals. CMCOCs are typically further evaluated for remedial action.

Chemicals of Concern (COCs): a chemical substance specific to an area of concern that potentially poses significant human health or ecological risks. COCs are typically further evaluated for remedial action.

Chemicals of Potential Concern (COPCs): a chemical substance specific to an area of concern that potentially poses human health risks and requires further evaluation in the RI. COPCs are typically not evaluated for remedial

action.

Ecological Receptor: a plant, animal, or habitat exposed to an adverse condition.

Hazard Quotient (HQ): the ratio of the potential exposure to a substance and the level at which no adverse effects are expected.

Human Receptor: a hypothetical person, based on current or potential future Land Use, who may be exposed to an adverse condition. For example, the National Guard Trainee is considered the hypothetical person when evaluating Military Training Land Use at the former RVAAP.

National Oil and Hazardous Substances Pollution Contingency Plan (NCP): the set of regulations that implement CERCLA and address responses to hazardous substances and pollutants or contaminants.

Record of Decision (ROD): a legal record signed that describes the cleanup action or remedy selected for a site, the basis for selecting that remedy, public comments, and responses to comments.

Remedial Investigation (RI): CERCLA investigation that involves sampling environmental media, such as air, soil, and water, to determine the nature and extent of contamination and to calculate human health and environmental risks that result from the contamination.

Responsiveness Summary: a section of the ROD that documents and responds to written and oral comments received from the public about the PP.

Risk Assessment: an evaluation that determines potential harmful effects, or lack thereof, posed to human health and the environment due to exposure to chemicals found at a CERCLA site.

Unrestricted (Residential) Land Use: A Land Use defined for the former RVAAP restoration that is considered protective for all three Land Uses at CJAG. If an AOC meets the requirements for Unrestricted (Residential) Land Use, then there are no limitations on use

and the AOC can also be used for Military Training and Commercial/Industrial purposes. This is used as a baseline evaluation and required to be evaluated under CERCLA.

REFERENCES

Environmental Chemical Company (ECC) 2012. *Final Site Inspection and Remedial Investigation Work Plan at Compliance Restorations Sites (Revision 0), Ravenna Army Ammunition Plant, Ravenna, Ohio.*

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Parsons 2017. *Final Work Plan, Additional Sampling for CC RVAAP-69 Building 1048 Fire Station, CC RVAAP-70 East Classification Yard, and CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift, Ravenna Army Ammunition Plant Restoration Program, Camp Ravenna, Portage and Trumbull Counties, Ohio.* November 30.

Parsons 2019. *Final Remedial Investigation (RI) for CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift, Ravenna Army Ammunition Plant, Ravenna, Ohio.* October 16.

Science Applications International Corporation (SAIC) 2010. *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant, RVAAP, Ravenna, Ohio.* March.

SAIC 2011. *Historical Records Review Report for the 2010 Phase I Remedial Investigation Services at Compliance Restoration Sites (9 Areas of Concern).* Ravenna Army Ammunition Plant, Ravenna, Ohio. April.

TEC-Weston Joint Venture 2016. *Final Facility-Wide Groundwater Monitoring Program RVAAP-66 Facility-Wide Groundwater Annual Report 2015 Sampling Events,* Former Ravenna Army Ammunition Plant, Portage and Trumbull Counties, Ohio. 6 May.

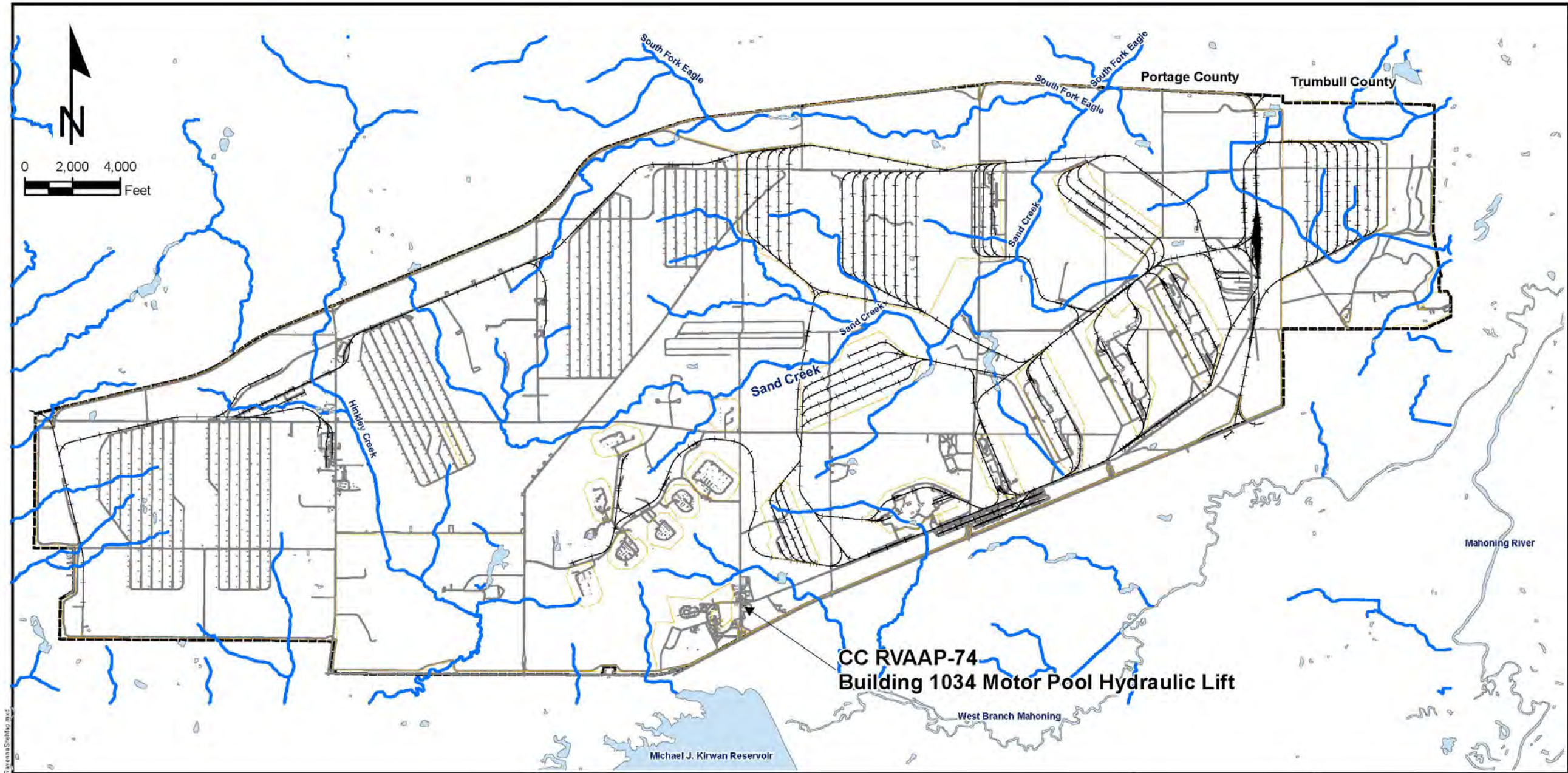
FIGURES

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Figure 1 Location of Former Ravenna Army Ammunition Plant/Camp James A. Garfield

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Legend

- River and Waterbody
- Creek and Stream
- Fence Line
- Railroad
- Road
- Building
- Facility Property Line

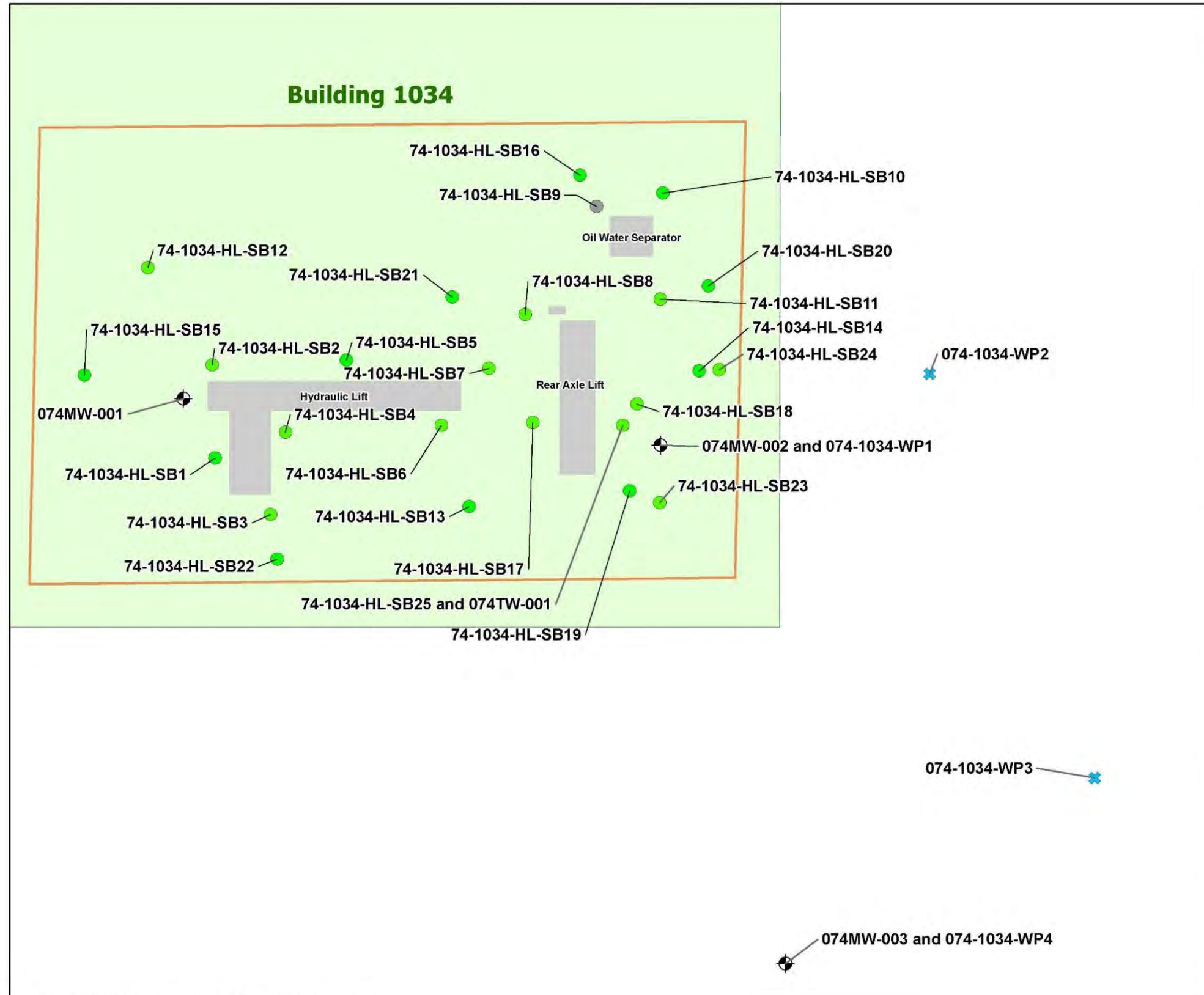
NOTES & SOURCES

- 1) Map Coordinates: WGS 84, UTM Zone 17N in Meters
- 2) Base map data from SAIC
- 3) RVAAP = Ravenna Army Ammunition Plant
- 4) CC = Army Environmental Compliance-Related Cleanup Program
- 5) DLA = Defense Logistics Agency

PARSONS		Former Ravenna Army Ammunition Plant, Portage and Trumbull Counties, Ohio	
Figure 2			
Location of CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift			
SCALE:	As Shown	PROJECT NUMBER:	640030.0005.110051
DATE:	12/16/2019	FIGURE NUMBER:	2
FILE:			

Figure 2 Location of CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift

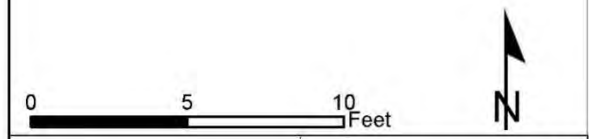
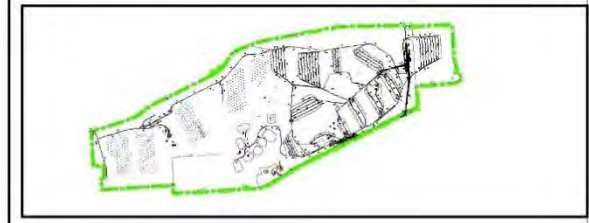
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Legend

- Installation Boundary
- Direct-Push Boring Location
- Direct-Push Boring Location (Not Sampled)
- Groundwater Well Point Location (Grab Sample)
- Groundwater Monitoring Well
- Area of Concern
- Interior Building Feature
- Building 1034

1. Map Coordinates: NAD 83, UTM Zone 17N
2. RVAAP = Ravenna Army Ammunition Plant
3. CC = Army Environmental Compliance-Related Cleanup Program



PARSONS		Former Ravenna Army Ammunition Plant, Portage and Trumbull Counties, Ohio	
DESIGNED BY BT	<p align="center">Figure 3 CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift Site Features and Sample Locations</p>		
DRAWN BY LH			
CHECKED BY EH			
SCALE As Shown	PROJECT NUMBER 640030.0005.110051	FILE NUMBER 3	
SUBMITTED BY EH	DATE 12/17/2019		

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Figure 3 CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift Site Features and Sample Locations

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ATTACHMENT 1 – OHIO EPA CORRESPONDENCE



Mike DeWine, Governor
Jon Husted, Lt. Governor
Laurie A. Stevenson, Director

February 7, 2020

Re: US Army Ravenna Ammunition PLT RVAAP
Remediation Response
Correspondence
Remedial Response
Portage County
267000859261

Mr. David Connolly
Army National Guard Directorate
Environmental Programs Division
ARNG-ILE-CR
111 South George Mason Drive
Arlington, VA 22204

Subject: Draft Preferred Plan for CC RVAAP-74 Building 1034 Motor Pool Hydraulic Lift

Dear Mr. Connolly:

The Ohio Environmental Protection Agency (Ohio EPA), Northeast District Office (NEDO), Division of Environmental Response and Revitalization (DERR) has reviewed the December 17, 2019 draft Preferred Plan for CC RVAAP-74 Motor Pool Hydraulic Lift and has no comments.

Please submit the document in final form.

If you have any questions, please contact me at (330) 963-1170, or by email at ed.damato@epa.ohio.gov.

Sincerely,

Edward D'Amato
Site Coordinator
Division of Environmental Response and Revitalization

RECEIVED
FEB 07 2020

ED/sc

cc: David Connolly, ARNG
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