

Final
2021 Annual Land Use Control Monitoring Report,
RVAAP-01 Ramsdell Quarry Landfill,
RVAAP-04 Open Demolition Area #2,
RVAAP-05 Winklepeck Burning Grounds,
RVAAP-08 through RVAAP-12 (Load Lines 1 through 4 and 12), and
RVAAP-51 (Dump Along Paris-Windham Road)

Camp James A. Garfield Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

Contract No. W912QR-18-C-0013

Prepared for:



U.S. Army Corps of Engineers
Louisville District

Prepared by:



March 1, 2022

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Prepared by:



March 1, 2022



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

April 15, 2022

Transmitted Electronically

Mr. Kevin M. Sedlak
Restoration Program Manager
ARNG-ILE Clean up
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1438 State Route 534
Newton Falls, OH 44444

**Re: US Army Ravenna Ammunition Plt RVAAP
Remediation Response
Project records
Remedial Response
Portage County
267000859029**

Subject: Ohio EPA Concurrence - "Final 2021 Annual Land Use Control Monitoring Report, RVAAP-01 Ramsdell Quarry Landfill, RVAAP-05 Winklepeck Burning Grounds, RVAAP-08 through 12 Load Lines 1 through 4 and 12 and RVAAP-51 Dump Along Paris Windham Road, Camp James A. Garfield, Portage/Trumbull Counties, Ohio" - Dated March 18, 2022

Dear Mr. Sedlak:

The Ohio Environmental Protection Agency (Ohio EPA), Northeast District Office (NEDO), Division of Environmental Response and Revitalization (DERR) has received and reviewed the document entitled "Final 2021 Annual Land Use Control Monitoring Report, RVAAP-01 Ramsdell Quarry Landfill, RVAAP-05 Winklepeck Burning Grounds, RVAAP-08 through 12 Load Lines 1 through 4 and 12 and RVAAP-51 Dump Along Paris Windham Road, Camp James A. Garfield, Portage/Trumbull Counties, Ohio", dated March 18, 2022.

Ohio EPA has reviewed this documentation and has found no significant deficiencies. As a result, Ohio EPA concurs with the final findings of the report.

This letter is an official response from Ohio EPA that will be maintained as a public record. If you have any questions or concerns, please do not hesitate to contact me at (330) 963-1235.

Sincerely,

Nicholas Roope
Environmental Specialist
Division of Environmental Response and Revitalization

**Received
15 APR 2022**

NCR/cs

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Final 2021 Annual Land Use Control Monitoring Report,

Camp James A. Garfield Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

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AR = Administrative Record

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NEDO = Northeast District Office

OHARNG = Ohio Army National Guard

USACE = U.S. Army Corps of Engineers

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LIST OF ACRONYMS AND ABBREVIATIONS

AOC	Area of Concern
AR	Army Regulation
ARNG	Army National Guard
bgs	below ground surface
Camp Ravenna	Camp Ravenna Joint Military Training Center
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
C.F.R.	Code of Federal Regulations
CJAG	Camp James A. Garfield Joint Military Training Center
DFFOs	Director's Final Findings and Orders
FWSAP	Facility-Wide Sampling and Analysis Plan
FWGWMPP	Facility-Wide Groundwater Monitoring Program Plan
IRP	Installation Restoration Program
LL	Load Line
LUC	Land Use Control
MRS	Munitions Response Site
ODA2	Open Demolition Area #2
Ohio EPA	Ohio Environmental Protection Agency
OHARNG	Ohio Army National Guard
PMP	Property Management Plan
RD	Remedial Design
ROD	Record of Decision
RQL	Ramsdell Quarry Landfill
RVAAP	Ravenna Army Ammunition Plant
USACE	United States Army Corps of Engineers
USP&FO	United States Property and Fiscal Officer
WBG	Winklepeck Burning Grounds

SECTION 1.0 INTRODUCTION

1.1 Report Introduction

As of December 2021, four areas at the former Ravenna Army Ammunition Plant (former RVAAP), now known as the Camp James A. Garfield Joint Military Training Center (CJAG) have designated Land Use Controls (LUCs); Ramsdell Quarry Landfill (RQL), Winklepeck Burning Grounds (WBG), Load Lines (LL) 1-4 and 12 and the Dump Along Paris-Windham Road.

At the request of the Ohio EPA, an annual inspection of interim controls at ODA2 will be conducted by the Army National Guard (ARNG)/Ohio Army National Guard (OHARNG). Inspection will include the area inclusive of the Soil Cover/Source Area and Kickout Area at the ODA2 MRS (see Figure 3.0) in the Remedial Investigation Addendum Work Plan. The inspection of interim controls in this area will occur until the time when a final remedy is implemented at ODA2 under the Military Munitions Response Program (MMRP). Annual inspections are being completed to confirm that the interim controls are being followed and effective. The inspection will be submitted to the Ohio EPA as part of the Annual LUC report for review and concurrence.

As explained in greater detail in Sections 1.4 and 1.5, annual reports are required for the areas at the former RVAAP that utilize LUCs and remedy components to protect the integrity of an environmental remedy (if present), human health, and the environment by limiting the activities that may occur at those areas.

This report reviews the following Areas of Concern (AOCs):

- RVAAP-01 - Ramsdell Quarry Landfill,
- RVAAP-04 – Open Demolition Area #2,
- RVAAP-05 - Winklepeck Burning Grounds,
- RVAAP-08 through 12 – Load Lines 1, 2, 3, 4 and 12,
- RVAAP-51 - Dump Along Paris-Windham Road.

Prior to the completion of Remedial Actions for the LL1-4 and 12 AOCs this year, LUCS for LL12 and interim remedial components for LL1-4 were inspected and reported separately. After the completion of Remedial Actions and in accordance with the *Final Record of Decision Amendment for Soil, Sediment, and Surface Water at RVAAP Load Lines 1, 2, 3, 4, and 12* (Leidos, 2019), these AOCs have been combined. Annual reviews of LUCs at Load Line 12 and remedy components at Load Lines 1-4 have been conducted since 2017 and this is the fifth annual report for those areas.

This is the ninth annual LUC report completed for WBG and the seventh annual LUC report for RQL. This is the third annual LUC report for Dump Along Paris-Windham Road. This is the first annual report for ODA2.

This annual report is laid out as follows:

Section 1.0 – General introduction to the facility, and a general description of Land Use Controls, monitoring and annual reporting requirements.

Section 2.0 – Annual LUC Monitoring Report for RQL.

Section 3.0 – Annual Monitoring Report for ODA2

Section 4.0 – Annual LUC Monitoring Report for WBG.

Section 5.0 - Annual LUC Monitoring Report for Load Lines 1–4 and 12

Section 6.0 – Annual LUC Monitoring Report for Dump Along Paris-Windham Road

Section 7.0 - Conclusions

Section 8.0 – References

1.2 Facility Location

Camp James A. Garfield is located in northeastern Ohio within Portage and Trumbull counties, and is approximately three miles east/northeast of the City of Ravenna and one mile north/northwest of the City of Newton Falls. The facility is approximately 11 miles long and 3.5 miles wide. The facility is bounded by State Route 5, the Michael J. Kirwan Reservoir, and the CSX System Railroad to the south; Garrett, McCormick, and Berry Roads to the west; the Norfolk Southern Railroad to the north; and State Route 534 to the east, as shown in Figure 1. In addition, the facility is surrounded by the communities of Windham, Garrettsville, Charlestown, and Wayland.

Figure 1.0 Map of Camp James A. Garfield Joint Military Training Center
(Former Ravenna Army Ammunition Plant)



1.3 Facility History

RVAAP was a load, assemble, and pack facility built to produce large-caliber artillery projectiles and bombs. Although RVAAP downsized after World War II, plant production lines were reactivated during the Korean and Vietnam Wars. Additionally, the plant conducted nearly continuous demilitarization of war stocks, refurbishment of inventoried ammunition, and minor research and development projects. By 1992, the installation's status changed from "inactive but maintained" to that of "caretaker."

The Department of Defense established the Installation Restoration Program (IRP) to provide guidance and funding for the investigation and cleanup of potential contamination and past operations caused by historical activities at military installations. The IRP began at RVAAP in 1989. Administrative accountability for the initial acreage of the facility was transferred to the United States Property and Fiscal Officer (USP&FO) for Ohio in May 1999 with subsequent transfers to follow. To date, administrative accountability for the entire 21,683-acre facility has been transferred to the USP&FO for Ohio and subsequently licensed to the Ohio Army National Guard (OHARNG) for use as a military training site, now known as Camp James A. Garfield. The RVAAP restoration program involves cleanup of former production/operational areas throughout the facility related to former activities conducted under the RVAAP. The restoration program is currently managed by the Army National Guard (ARNG) with support from the OHARNG. The facility was renamed from Camp Ravenna to Camp James A. Garfield in October 2018. Camp James A. Garfield/former RVAAP may be used interchangeably throughout this report.

1.4 Land Use Controls, Monitoring, And Reporting Requirements

All work, plans, and documentation for the RVAAP Restoration Program must be in conformance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) [42 United States Code §9601, *et seq.*], the National Contingency Plan [40 Code of Federal Regulations (C.F.R.) Part 300], and the Director's Final Findings and Orders (DFFOs) [June 10, 2004]. If residual contamination is left in place after the CERCLA remediation process is complete (does not meet unrestricted/residential use standards) and the contamination still poses a potential for unacceptable risks or exceeds cleanup standards, then the Areas of Concern/Munitions Response Sites (AOCs/MRSs) will require LUCs.

LUCs include any physical, legal, or administrative mechanism that places restrictions on the use of, or limits access to, real property to prevent exposure to contaminants at concentrations greater than permissible levels or other safety issues. The intent of using these controls is to protect the integrity of the remedy (if present), human health, and the environment by limiting the activities that may occur at an AOC/MRS. When implemented, these LUCs provide protection to individuals using or working at the AOC/MRS by limiting and/or preventing activities which could potentially result in risks to those individuals. The Army is responsible for controlling land use on active installations such as Camp James A. Garfield and can internally restrict the use of such property. LUCs may include engineering controls such as fences, Seibert markers and signs, or administrative controls such as awareness training and restrictions on use including type of use and duration.

The Property Management Plan (PMP, dated June 2021 and in effect during 2021) identifies LUCs and restrictions for specific AOCs/MRSs at Camp James A. Garfield and provides mechanisms to implement and manage those LUCs. The PMP is required under Army Regulation (AR) 210-20 and satisfies requirements of the DFFOs. The PMP lists general performance objectives of LUCs at Camp James A. Garfield as well as AOC/MRS specific LUCs detailed to address the concerns present on that particular AOC/MRS. According to Section 1.3 of the 2021 PMP, it is the responsibility of the Army to implement, inspect, maintain and enforce LUCs set forth under the RVAAP Restoration Program.

1.5 Annual LUC Inspection and Monitoring Report Requirement

The PMP requires that the Army conduct an annual inspection of the LUCs to confirm that the LUCs remain effective and still meet the LUC objectives, and requires that the results of the annual LUC inspection be included in an Annual LUC Monitoring Report to be submitted to the Ohio Environmental Protection Agency (Ohio EPA) for review and approval. The Annual LUC Monitoring Report is required to evaluate the status and effectiveness of LUCs with a description of how LUC deficiencies, including inconsistent land uses, were addressed. The Annual LUC Monitoring Reports will be used in the preparation of the CERCLA 121(c) Five-Year Review. This report presents the LUC monitoring activities that occurred in 2021 for RQL, ODA2, WBG, Load Lines 1-4 and 12, and Dump Along Paris-Windham Road.

Additionally, the PMP requires that a written certification will be submitted with the Annual Monitoring Report that states whether or not the LUCs remain in place and are effective. The written certifications for the sites listed above are presented in Section 7.8.

SECTION 2.0 ANNUAL LUC MONITORING REPORT FOR RVAAP-01 RAMSDELL QUARRY LANDFILL

2.1 RVAAP-01 Ramsdell Quarry Landfill

In accordance with the Camp James A. Garfield/former RVAAP PMP (dated June 2021) and Appendix A-1 and the Final Remedial Design (RD) for Soil and Dry Sediment at RVAAP-01 Ramsdell Quarry Landfill (RQL), a LUC inspection of RQL was conducted by Allan Brillinger (Chenega Tri-Services, LLC) on behalf of the RVAAP restoration program on November 1, 2021. This annual report covers the period of January 2021 through December 2021.

According to LUCs set forth in the *Final Remedial Design for Soil and Dry Sediment at the RVAAP-01 Ramsdell Quarry Landfill*, dated 9 April 2014, and memorialized in the PMP, periodic monitoring of LUCs, in the form of site inspections, is required to be conducted by the Army to confirm that the LUCs remain effective and still meet LUC objectives for continued remedy protectiveness. Site inspections regarding Land Use Controls are required to be conducted on an annual basis. The required Annual LUC Report is to be submitted to the Ohio EPA for review and approval.

The inspections shall include the following:

- Review of LUC training/inbriefs/maintenance and access logs and other documentation as applicable to RQL.
- Evaluation of activities at RQL to ensure that all activities executed within RQL are in compliance with the established digging restrictions and established exposure limits (Security Guard/Maintenance Worker - one (1) hour/day for 250 days/year for 25 years).
 - All digging or excavation within the quarry bottom is prohibited due to residual asbestos and contamination.
 - Digging and excavation on the landfill cap will be regulated by the post closure care plan and the Ohio solid waste regulations.
 - Due to not meeting the industrial/commercial standard, exposure monitoring for the full-time facility employee must be conducted to ensure and document that exposure at the AOC is not above the established exposure limit set for the Security Guard/Maintenance worker of one (1) hour/day for 250 days/year for 25 years.
- Inspection of warning signs on gates and fencing.
- Inspection of RQL fencing and gates.

LUC deficiencies or inconsistent land uses that are identified must be reported and identified on the inspection form/report and must also be reported to the ARNG/ OHARNG.

2.2 LUC Inspection Form for RVAAP-01 Ramsdell Quarry Landfill AOC

Review of LUCs – Management/Corrective Action

Activities and Land Use:

- a) *This AOC is to be managed as Restricted Access and is restricted from residential land use. Has residential use occurred? Have other land uses or land use changes occurred?*

No residential land use has occurred at the RQL. There have been no other land uses or land use changes over the past year.

- b) *What activities have occurred at RQL since last Inspection? Has any maintenance been performed at the AOC?*

A tree in the northeast portion of the site was knocked down by a windstorm in March 2021. The fence around the RQL was not damaged by the downed tree. The downed tree was removed in March 2021. Annual mowing and minor fence repairs were conducted for the RQL in September and October 2021.

Two groundwater monitoring events at the RQL were conducted in April/May and December 2021.

OHARNG representatives and a contractor accessed the site in January 2021 to conduct punch bar testing to support the End of Post Closure Care Certification.

- c) *Are activities at RQL being conducted in compliance with established digging restrictions and established exposure limits (exposure for full-time employees who access RQL must be tracked)?*

The activities taking place at RQL are being conducted in accordance with the established digging restrictions. No digging was conducted at RQL in 2021. Personnel exposure is being tracked with Log In sheets that any person entering and exiting the AOC must fill out. The Access Log sheets for 2021 are presented in Appendix A.

- d) *Are the warning signs in place and functional? Please note condition and any deficiencies.*

The warning signs are posted on the RQL LUC fence and gate as required. Signs that read “DANGER – Unauthorized Personnel Keep Out” and “Danger – Asbestos Waste Disposal Site – Do Not Create Dust – Breathing Asbestos is Hazardous to Your Health” are posted on the gates and the LUC fence every 300 feet. The warning signs are intact and in good condition.

- e) *Is the RQL fencing and gates intact and in good condition? Please note condition and any deficiencies.*

The RQL fencing and gate are intact and in good condition. There are no deficiencies with the fence and gates.

Inspections and Reporting

Inspections are required on an annual basis. Periodic monitoring inspections may be conducted as needed. Are annual inspections being conducted as required? Have any additional inspections been completed?

The annual LUC inspection was conducted on November 1, 2021. Other inspections in 2021 included two quarterly landfill inspections (March and June 2021) conducted by Chenega Tri-Services, LLC and /or OHARNG, and the Portage County Combined General Health District. Photographs of the RQL LUC area taken during the 2021 annual LUC inspection are presented in Appendix B.

An Annual Report is required. Has the annual report been completed and submitted to the Ohio EPA?

Annual LUC Monitoring Reports for RQL were completed every year from 2015 through 2020. This is the seventh Annual Report being completed for RQL.

Training/Inbriefs (as applicable to RQL):

Are RQL LUC training and/or inbriefs (for those who need to access RQL) being conducted as applicable? Describe the training (content/who attended/who provided/documentation of training).

In-person LUC training is normally provided annually to all Camp James A. Garfield staff and tenant units. Due to coronavirus restrictions, virtual training was conducted in May 2021 for on-site contractors and in October 2021 for the Camp James A. Garfield OHARNG military personnel that conduct weekend training on the facility but are not on full-time duty. In-person training for CJAG maintenance and range control personnel was conducted in October 2021. The virtual and in-person LUC training was prepared by the OHARNG-Environmental staff. The training provided an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/MRSs, and specific LUC and other restrictions for RQL, as well as other areas at Camp James A. Garfield. Training materials and rosters are on file in the OHARNG Environmental Office.

A "Land Use Control (LUC) Brief for Contractors/Personnel" was conducted for all personnel/contractors that entered the RQL AOC. The brief consisted of a review of the RQL site history, the environmental hazards present at the RQL, the LUCs that have been instituted, and the requirements of all personnel that enter the AOC. All personnel that have received the brief sign the briefing form that states that they have been briefed and understand the RQL LUC requirements, and that they will comply with all requirements. The briefing was provided for one contractor in 2021. The signed briefing forms are kept on file at the OHARNG-Environmental office.

If training was not provided, explain why and what corrective actions were initiated.

Not applicable.

Is access to RQL for full-time employees of the facility being logged in order to track exposure? Please review access logs to ensure exposure is within the established exposure limits.

Anyone entering the RQL AOC is required to record their name, date and time of entry and egress from RQL on the Access Logs (Appendix A) posted at the entry gate. The established exposure limits for the Security Guard/Maintenance Worker are one (1) hour/day for 250 days/year for 25 years (or 250 hours per year). A review of the Access Logs for 2021 indicate that the most any one worker (GB and ZK, maintenance workers from Vista Sciences Corporation (VSC)) were working inside the RQL AOC was for 37.8 hours in 2021. A breakdown of these maintenance workers time within RQL is as follows: 35.6 hours over 7 days spent conducting annual mowing and 2.2 hours during one day removing a downed tree. Therefore, the total exposure in RQL for anyone accessing the AOC did not exceed 250 hours for 2021.

Access Logs have been used to track access at the RQL AOC since 2015. A review of the maximum exposure for anyone accessing the RQL AOC each year from 2015 to 2020 is as follows:

- 2015 – 41 hours
- 2016 – 20 hours
- 2017 – 23.5 hours
- 2018 – 14.75 hours.
- 2019 – 48 hours
- 2020 – 47.4 hours

LUC Violations (if any):

Description of any observed/noted LUC violation(s) as identified. Not applicable.

Date of Notification of LUC violations (if applicable) to ARNG/OHARNG: Not applicable.

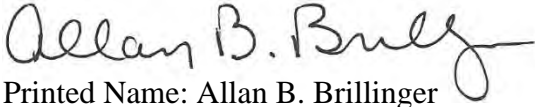
Description of any corrective actions taken to remedy observed LUC violations or recommended corrective actions: Not applicable.

Additional Notes/Comments:

Several wire connectors that attached several of the 5-wire tensile fence strands to fence posts at various points along were broken, which allowed several of the tensile wire fence strands to sag. Additionally, several of the 5-wire strands were broken and needed to be spliced. These repairs were made in October 2021.

Original Inspection Completed by:

Signature:

A handwritten signature in black ink, appearing to read "Allan B. Brillinger". The signature is fluid and cursive, with the first name "Allan" being the most prominent.

Printed Name: Allan B. Brillinger

Title: Program Manager

Organization: Chenega Tri-Services, LLC

Date: December 10, 2021

SECTION 3.0 ANNUAL LUC MONITORING REPORT FOR RVAAP-04 OPEN DEMOLITION AREA #2

3.1 RVAAP-04 Open Demolition Area #2

In accordance with the CJAG/former RVAAP Property Management Plan (PMP) and at the request of the Ohio Environmental Protection Agency (Ohio EPA), an inspection of interim controls at Open Demolition Area 2 (ODA2) was conducted by Allan Brillinger (Chenega Tri-Services, LLC) on behalf of the RVAAP restoration program on December 8, 2021. This annual report covers the period of January 2021 through December 2021.

At the request of the Ohio EPA, an annual inspection of interim controls at ODA2 will be conducted by the Army National Guard (ARNG)/Ohio Army National Guard (OHARNG). Inspection will include the area inclusive of the Soil Cover/Source Area and Kickout Area at the ODA2 MRS (Figure 3.0) in the Remedial Investigation Addendum Work Plan. The inspection of interim controls in this area will occur until the time when a final remedy is implemented at ODA2 under the Military Munitions Response Program (MMRP). The inspection will be submitted to the Ohio EPA for review and concurrence.

The ARNG/OHARNG will implement the following interim controls listed below for ODA2:

- Control access to the site with the access gate across the ODA2 access road.
- Control access to the site with the required operational range signage (set forth by Army regulation) and Siebert stakes for the range complex area in the vicinity of ODA2.
- Utilize UXO construction support during any ground disturbance activities. Examples of ground disturbance may include environmental restoration or investigation activities, munitions removal or restoration remedial actions, vegetation clearing, culvert and stream maintenance, range construction, or range maintenance that disturbs native soil (not constructed earth berms).
- Monitor for potential munitions in the stream at the ODA2 access road culvert (historically the main potential accumulation point for munitions).

Therefore, the annual inspection shall include the following:

- Inspection of Open Demolition Area 2 (soil cover/source area and kickout area) to note current conditions;
- Inspection of ODA2 access gate;
- Inspection of signs/Siebert stakes along Newton Falls Road and Greenleaf Road in the vicinity of ODA2;
- Review of activities performed during the year (i.e., restoration activities, ground disturbance, munitions demolition or removal operations, culvert maintenance, munitions creek walks, etc.).

Noted deficiencies that are identified will be reported and identified on the inspection form and will also be reported to the ARNG/OHARNG.

3.2 LUC Inspection Form for RVAAP-04 Open Demolition Area #2

Review of Interim Restrictions

1. Activities:

- a. What activities have occurred at ODA2 within the last year?

Two semi-annual groundwater monitoring activities were conducted at the ODA2 in April/May and December 2021. Mowing and monitoring well maintenance (painting and labeling) was conducted at ODA2 in Summer 2021. Representatives from the United States Army Corps of Engineers (USACE) conducted a munitions creek walk in June 2021. Additionally, Army representatives conducted a site walk with a contractor in preparation for an upcoming Remedial Investigation.

- b. Are range signage/markers in place? Are they being maintained?

Warning signs and Seibert Stakes are posted along the Greenleaf Road and Newton Falls Road. The Seibert Stakes and warning signs are present, functional and in good condition. They are visible and free of vegetation. Photographs of the AOC (including Seibert Stakes and warning signs) are presented in Appendix C.

- c. Is the ODA2 access gate being maintained and locked in order to control access and deter trespassers?

The ODA2 access gate by Newton Falls Road is intact, functional, and locked to deter unauthorized personnel. A photograph of the ODA2 access gate is presented in Appendix C.

2. Inspections and Reporting:

- a. Inspections are to occur on an annual basis. Are annual inspections being conducted?

This is the first annual inspection for ODA2. Annual inspections will be conducted going forward in accordance with the Property Management Plan.

- b. Are the interim controls incorporated into the Property Management Plan (PMP)?

The interim controls for ODA2 are being incorporated into the revision of the Property Management Plan that is being prepared in conjunction with this Annual LUC report.

4. Interim Restrictions Evaluation:

- a. Are the interim controls being effectively managed at ODA2?

The interim controls at ODA2 are being effectively managed.

- b. Were any deficiencies noted?

Provide a description of any observed/noted deficiencies as identified and a date of notification of the deficiency (if applicable) to ARNG/OHARNG. Also provide a description of any corrective actions taken to remedy observed deficiencies or recommended corrective actions.

No deficiencies for ODA2 were observed or noted for ODA2 in 2021.

Additional Notes/Comments:

None.

Inspection Completed by:

Signature:

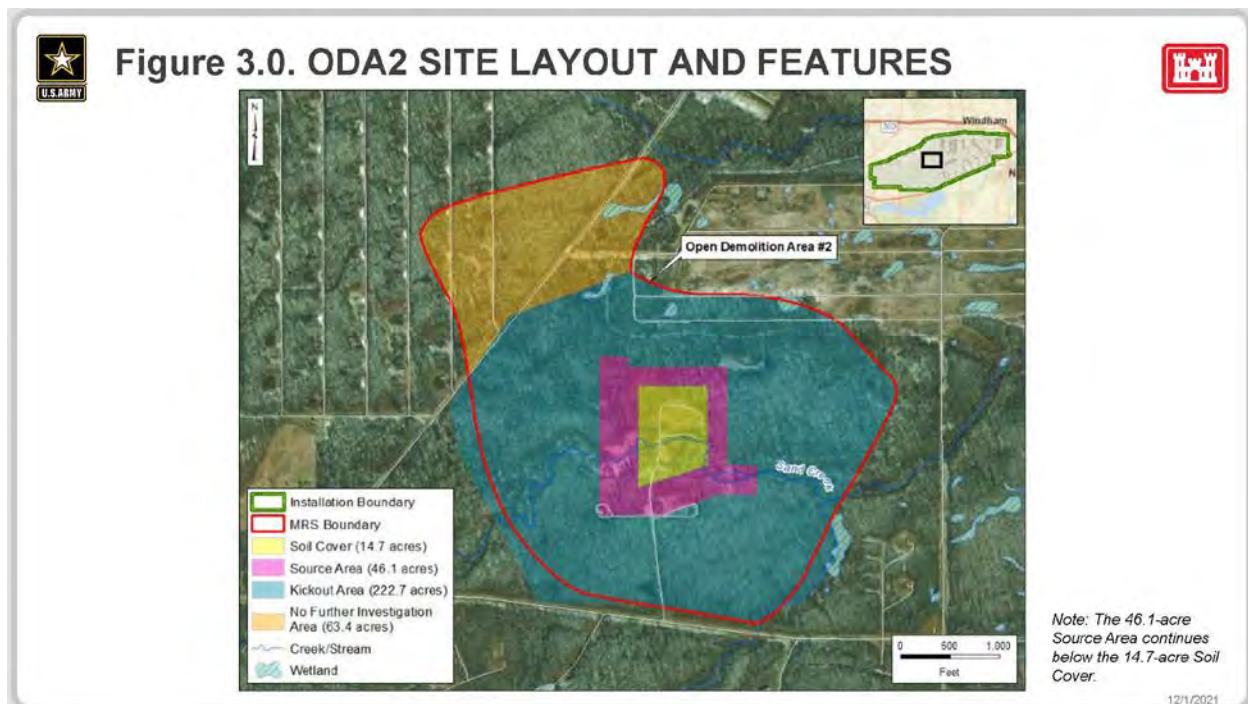
Allan B. Brillinger

Printed Name: Allan B. Brillinger

Title: Program Manager

Organization: Chenega Tri-Services, LLC

Date: December 10, 2021



SECTION 4.0 ANNUAL LUC MONITORING REPORT FOR WINKLEPECK BURNING GROUNDS

4.1 Winklepeck Burning Grounds

In accordance with the Camp James A. Garfield/former RVAAP Property Management Plan (PMP) dated June 2021 and Appendix A.1, an inspection of RVAAP-05 Winklepeck Burning Grounds was conducted by Allan Brillinger (Chenega Tri-Services, LLC) on behalf of the RVAAP restoration program on November 16, 2021. This annual report covers the period of January 2021 through December 2021.

The annual inspection required by the PMP includes the following:

- Review of LUC training and documentation applicable to WBG.
- Evaluation of activities at WBG to ensure that residential use and groundwater use are not occurring.

4.2 LUC Inspection Form for RVAAP-05 Winklepeck Burning Grounds AOC

Review of LUCs – Management/Corrective Action

1. Activities and Land Use:

a) *This AOC is restricted from residential land use. Has residential land use occurred?*

No residential land use has occurred at the WBG. The AOC is used for military training. The site is currently under construction to be used as a Multi-Purpose Machine Gun (MPMG) range.

b) *Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:*

- *The installation, development, purging and sampling of new or existing monitoring wells in accordance with the most recent facility-Wide Sampling and Analysis Plan (FWSAP) as part of the AOC-specific IRP, the Facility-Wide Ground Water Monitoring Program Plan (FWGWMPP), or the Facility-Wide Groundwater Remedial Investigation.*
- *The modification of existing wells, if necessary, to allow for construction on the range.*
- *The abandonment and replacement of monitoring wells damaged by activities or removed for construction, and abandonment of wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio EPA guidance, the most recent FWSAP, and applicable Ohio Administrative Code requirements.*

Have any groundwater activities been conducted and, if yes, are they within the established control parameters?

Two semi-annual groundwater monitoring activities were conducted at the WBG in April/May and December 2021. The groundwater sampling was conducted in accordance with the FWGWMPP, and within the LUCs established for WBG.

Additionally, the monitoring wells at WBG are currently being modified from stick-up wells to flush-mount wells. This modification began in Fall 2021 as part of the MPMG Range re-configuration.

2. Inspections and Reporting

a) Inspections are required on an annual basis. Are annual inspections being completed?

The annual LUC inspection was conducted on November 16, 2021. Photographs of the WBG LUC area taken during this inspection are presented in Appendix D.

b) An Annual Report is required. Has the annual report been completed and submitted?

The Final 2020 Annual LUC Monitoring Report for WBG was submitted to the Ohio EPA on May 26, 2021.

3. Training (as applicable to WBG):

a) Was LUC training (specific to WBG) being conducted as applicable? Describe the training (content/who attended/who provided/documentation of training).

In-person LUC training is normally provided annually to all Camp James A. Garfield staff and tenant units. Due to coronavirus restrictions, virtual training was conducted in May 2021 for on-site contractors and in October 2021 for the Camp James A. Garfield OHARNG military personnel that conduct weekend training on the facility but are not on full-time duty. In-person training for CJAG maintenance and range control personnel was conducted in October 2021. The virtual and in-person LUC training was prepared by the OHARNG-Environmental staff. The training provided an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/MRSs, and specific LUC and other restrictions for WBG, as well as other areas at Camp James A. Garfield. Training materials and rosters are on file in the OHARNG Environmental Office.

b) If training was not provided, explain why and what corrective actions were initiated.

Not applicable.

4. Description of any observed/noted LUC violation(s):

No LUC violations were noted during the reporting period (January 2021 through December 2021).

5. Date of Notification of LUC violations (if applicable) to ARNG/OHARNG:

Not applicable.

6. Description of any corrective actions taken to remedy observed LUC violations or recommended corrective actions:

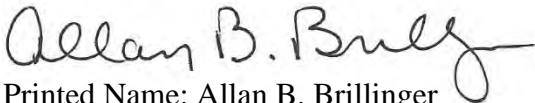
Not applicable.

7. Additional Notes/Comments:

None.

Original Inspection Completed by:

Signature:

A handwritten signature in black ink that reads "Allan B. Brillinger". The signature is fluid and cursive, with the first name "Allan" being the most prominent.

Printed Name: Allan B. Brillinger

Title: Program Manager

Organization: Chenega Tri-Services, LLC

Date: December 10, 2021

SECTION 5.0 ANNUAL MONITORING REPORT FOR LOAD LINES 1, 2, 3, 4 AND 12

5.1 Load Lines 1, 2, 3, 4 and 12

In accordance with the former RVAAP Property Management Plan (PMP), an inspection of RVAAP-08 –RVAAP-12 Load Lines 1-4 and 12 was conducted by Allan Brillinger of Chenega Tri-Services, LLC on behalf of OHARNG on November 3 and 8, 2021.

The annual inspection required by the PMP includes the following:

- Review of general Land Use Control (LUC) training and documentation as applicable to Load Lines 1-4 and 12.
- Evaluation of activities at Load Lines 1-4 and 12 to ensure that residential use is not occurring.

LUC deficiencies or inconsistent land uses that are identified must be reported and identified on the inspection form and properly reported to the Army National Guard (ARNG)/Ohio Army National Guard (OHARNG).

5.2 Inspection Form for Load Lines 1 – 4 and 12

Review of LUCs – Management/Effectiveness/Corrective Action

1. Activities and Land Use:

- a. These Areas of Concern (AOCs) are restricted from residential land use. Has residential use occurred? What activities are being conducted at LL1-4 and 12?*

No residential land use has occurred at Load Lines 1-4 and 12. Remedial Action activities were completed in 2021 for LL1-4 and 12 and the AOCs achieved Commercial/Industrial Use standards. Military use is planned for the AOCs but no military training occurred in these AOCs in 2021.

2. Inspections and Reporting:

- a. Inspections are required on an annual basis. Are annual inspections being completed?*
The annual LUC inspection was conducted on November 3 and 8, 2021. Photographs of the LL1-4 and 12 LUC area taken during the 2021 inspection are presented in Appendix E. This is the fifth annual inspection of LUC components for these AOCs.
- b. An annual report is required. Has the annual report been completed and submitted?*
The Final 2020 Annual LUC Monitoring Report for LL1-4 and 12 was submitted to the Ohio EPA on May 26, 2021.

3. Training (as applicable to Load Lines 1-4 and 12)

- a. *Was annual LUC training (specific to Load Lines 1-4 and 12) being conducted as applicable? Describe the training (content/who attended/who provided/documentation of training).*

In-person LUC training is normally provided annually to all Camp James A. Garfield staff and tenant units. Due to coronavirus restrictions, virtual training was conducted in May 2021 for on-site contractors and in October 2021 for the Camp James A. Garfield OHARNG military personnel that conduct weekend training on the facility but are not on full-time duty. In-person training for CJAG maintenance and range control personnel was conducted in October 2021. The virtual and in-person LUC training was prepared by the OHARNG-Environmental staff. The training provided an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/MRSs, and specific LUC and other restrictions for LL1-4 and 12, as well as other areas at Camp James A. Garfield. Training materials and rosters are on file in the OHARNG Environmental Office.

- b. If training was not provided, explain why and what corrective actions were initiated.

Not applicable.

4. Description of any observed/noted LUC violation(s):

No LUC violations were observed/noted at Load Lines 1-4 and 12 in 2021.

5. Date of Notification of LUC violation (if applicable):

Not applicable.

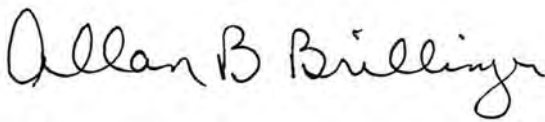
6. Description of any corrective actions taken to remedy observed LUC violation(s) or recommended corrective actions:

Not applicable.

7. Additional Notes/Comments

None.

Original Inspection Completed by:

Signature: 	
Printed Name: Allan B. Brillinger	
Title: Program Manager	Organization: Chenega Tri- Services, LLC
Date: December 10, 2021	

SECTION 6.0 ANNUAL LUC MONITORING REPORT FOR DUMP ALONG PARIS-WINDHAM ROAD

6.1 Dump Along Paris-Windham Road

According to LUCs set forth in the *Final Remedial Design for Soil at RVAAP-51 Dump Along Paris-Windham Road*, dated 27 February 2019, and memorialized in the PMP, periodic monitoring of LUCs, in the form of site inspections, is required to be conducted by the Army to confirm that the LUCs remain effective and still meet LUC objectives for continued remedy protectiveness. Site inspections are required to be conducted as necessary but not less than once per year. The required Annual LUC Report is to be submitted to the Ohio EPA for review and approval.

Based on the 2019 Remedial Design document, the U.S. Army implemented LUCs to achieve the performance objectives listed below for the AOC:

- Prohibit Residential land use at the AOC.
- Install and maintain warning signs and boundary markers (Seibert stakes) along the AOC perimeter. The Seibert stakes and warning signs will be placed at least every 300 feet along the AOC perimeter. The warning signs will alert persons having a need to access the AOC that the location was formerly used to dispose of asbestos-containing materials. The boundary stakes and warning signs will be repaired and replaced as needed, and annual brush clearing conducted to maintain visibility;
- Maintain a LUC training program;
- Prohibit digging at the AOC except for routine ground surface repairs.

6.2 Dump Along Paris-Windham Road Annual Inspection Form

In accordance with the Property Management Plan (PMP), an inspection of RVAAP-51 Dump Along Paris Windham Road was conducted by Allan Brillinger of Chenega Tri-Services, LLC on November 3, 2021.

The annual inspection required by the PMP includes the following:

- Review of LUC training and documentation as applicable to the Dump Along Paris Windham Road.
- Evaluation of activities at the AOC to ensure that residential use and digging is not occurring.
- Inspection of Seibert Stakes and warning signage.
- Inspection of the soil cover.

LUC deficiencies or inconsistent land uses that are identified must be reported and identified on the inspection form and properly reported to the ARNG/ OHARNG.

Review of LUCs – Management/Effectiveness/Corrective Action

1. Activities and Land Use

a.) This AOC is restricted from residential land use. Has residential use occurred?

No residential land use has occurred at the AOC. There have been no other land uses or land use changes over the past year.

b.) Digging is prohibited at the AOC. Has digging occurred at the AOC?

No digging was observed or reported to have taken place at the AOC in 2021.

c.) Warning signs and Seibert Stakes are required at the AOC along the boundary. Are Seibert Stakes and signage present, functional and in good condition? Are they visible (free of vegetation)?

Warning signs and Seibert Stakes are posted along the AOC boundary. The Seibert Stakes and warning signs are present, functional and in good condition. They are visible and free of vegetation. Photographs of the AOC (including Seibert Stakes and warning signs) are presented in Appendix F.

d.) The soil cover installed after the 2003 soil removal action creates a barrier between the receptor and the residual PAHs and asbestos in the soil. Is the soil cover intact? Is any damage or erosion on the soil cover present?

The soil cover at the AOC is intact. No damage or erosion of the soil cover was observed or noted at the AOC in 2021.

2. Inspections and Reporting

a.) Inspections are required on an annual basis. Are annual inspections being completed?

The LUCs at the AOC were implemented in 2019 and annual inspections were conducted in 2019, 2020 and 2021. This is the third annual LUC inspection for this AOC.

b.) An annual report is required. Has the annual report been completed and submitted?

The Final 2020 Annual Land Use Control Monitoring Report that included the annual LUC inspection report for this AOC was submitted to the Ohio EPA on May 26, 2021.

3. Training (as applicable to the AOC)

- a.) Was LUC training (specific to the AOC) being conducted as applicable? Describe the training (content/who attended/who provided/documentation of training).

In-person LUC training is normally provided annually to all Camp James A. Garfield staff and tenant units. Due to coronavirus restrictions, virtual training was conducted in May 2021 for on-site contractors and in October 2021 for the Camp James A. Garfield OHARNG military personnel that conduct weekend training on the facility but are not on full-time duty. In-person training for CJAG maintenance and range control personnel was conducted in October 2021. The virtual and in-person LUC training was prepared by the OHARNG-Environmental staff. The training provided an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/MRSs, and specific LUC and other restrictions for the Dump Along Paris-Windham Road, as well as other areas at Camp James A. Garfield. Training materials and rosters are on file in the OHARNG Environmental Office.

- b.) If training was not provided, explain why and what corrective actions were initiated?

Not applicable.

4. Description of any observed/noted LUC violation(s):

LUC violations were not observed or reported during 2021.

5. Date of Notification of LUC violation (if applicable):

Not applicable.

6. Description of any corrective actions taken to remedy observed LUC violation(s) or recommended corrective actions:

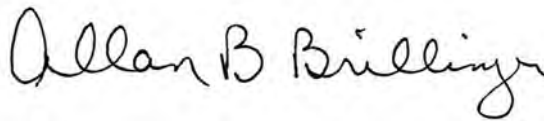
Not applicable.

7. Additional Notes/Comments:

None.

Original Inspection Completed by:

Signature:



Printed Name: Allan B. Brillinger

Title: Program Manager

Organization: Chenega Tri- Services, LLC

Date: December 10, 2021

SECTION 7.0 CONCLUSIONS

7.1 General LUC Training

The OHARNG provided virtual and in-person training to all Camp James A. Garfield staff and tenant units including an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, and any land use controls/restrictions on AOCs/MRSs. All training requirements presented in the PMP were met by the OHARNG in 2021. Training materials and rosters are on file in the Camp James A. Garfield Environmental Office.

7.2 Land Use Consistency and Land Use Control Effectiveness at RQL

The land use at RQL is Restricted Access. Based on the 2021 inspection, there are no inconsistent uses or activities discovered or reported at RQL. All activities conducted within the RQL AOC were performed in compliance with established digging restrictions, and established exposure limits as described in the PMP. This indicates current LUC objectives are being met to ensure the remedy is effective and protective.

A LUC in-brief was provided to all personnel entering RQL. Additionally, annual LUC training was provided to full-time staff and tenant units at the facility.

Land use is consistent with the designated LUCs and LUCs are effective.

7.3 Land Use Consistency and Land Use Control Effectiveness at ODA2

Based on the 2021 inspection, there were no inconsistent uses or activities discovered or reported at ODA2. The ODA2 access gate is functional, locked and effective in deterring unauthorized personnel. Seibert stakes and warning signs are posted along Greenleaf and Newton falls Roads adjacent to the AOC as required. A munitions stream walk was conducted in 2021. Land use is consistent with the remedies at the site and monitoring is effective.

7.4 Land Use Consistency and Land Use Control Effectiveness at WBG

The land use at WBG is Commercial/Industrial use. Based on the 2021 inspection, there were no inconsistent uses or activities discovered or reported at WBG. The AOC is being used for military training. No residential use has occurred at the AOC. No groundwater use is occurring at this AOC. Annual LUC training was provided to full-time staff and tenant units at the facility for WBG and other AOCs.

Land use is consistent with the designated LUCs and LUCs are being implemented and are effective.

7.5 Land Use Consistency and Remedy Component Monitoring at Load Lines 1, 2, 3, 4 and 12

Load Lines 1, 2, 3, 4 and 12 were remediated in 2021 to Commercial/Industrial Use standards. The sites are to be used for military training and no military training took place at these AOCs in 2021. No residential use has occurred at these AOCs. Based on the 2021 inspection, there were no uses or activities discovered or reported at these AOCs that were inconsistent with the

designated use. Annual LUC training was provided to full-time staff and tenant units at the facility for these AOCs and other AOCs.

Land use is consistent with the designated LUCs and LUCs are being implemented and are effective.

7.6 Land Use Consistency and Land Use Control Effectiveness at Dump Along Paris-Windham Road

The land use at the Dump Along Paris-Windham Road is Commercial/Industrial use with no digging permitted due to residual asbestos. Based on the 2021 inspection, there were no inconsistent uses or activities discovered or reported at the AOC. No residential use has occurred at the AOC and the soil cover is intact. No digging has occurred at the AOC in 2021. Annual LUC training was provided to full-time staff and tenant units at the facility for this and other AOCs.

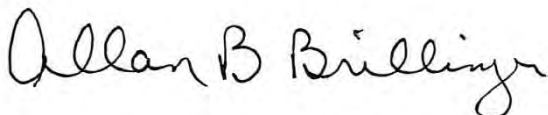
Land use is consistent with the designated LUCs and LUCs have been implemented and are effective.

7.7 Land Use Control Deficiency Corrective Action at RQL, ODA2, WBG, Load Lines 1 through 4 and 12, and Dump Along Paris-Windham Road

No deficiencies were identified and therefore no corrective actions were required.

7.8 Land Use Control and Remedy Component -Effectiveness Certification

This certifies that to the best of my knowledge and belief all the information contained in this Annual LUC Monitoring Report is accurate, and that the designated Land Use Controls and/or remedy component monitoring at Ramsdell Quarry Landfill, Open Demolition Area #2, Winklepeck Burning Grounds, Load Lines 1 through 4 and 12, and Dump Along Paris-Windham Road are in place and remain effective.



December 10, 2021

(signature)

(date)

Allan B. Brillinger

(printed name)

Program Manager, Chenega Tri-Services, LLC

(Title).

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(signature)

(date)

Kevin M. Sedlak

(printed name)

RVAAP Restoration Program Manager – Army National Guard Directorate

(Title).

SECTION 8.0 REFERENCES

General

Ravenna Army Ammunition Plant Restoration Program website: www.rvaap.org

Final Revised Property Management Plan for the Designated Areas of Concern and Munitions Response Sites, Version 4.0, Former Ravenna Army Ammunition Plant, Camp Ravenna Joint Military Training Center, Portage and Trumbull Counties, Ohio, US Army Corps of Engineers. June 2021.

Final Property Management Plan for the Designated Areas of Concern and Munitions Response Sites, Volume One – Version 1.0. U.S. Army Corps of Engineers. August 2012.

Director's Final Findings and Orders, Ravenna Army Ammunition Plant. Ohio EPA, June 2004.

Ramsdell Quarry Landfill

Final Remedial Action Report for Soil and Dry Sediment at the RVAAP-01 Ramsdell Quarry Landfill. Leidos. 30 January 2015.

Final Remedial Design for Soil and Dry Sediment at the RVAAP-01 Ramsdell Quarry Landfill. Leidos. 9 April 2014.

Final Record of Decision Amendment for the RVAAP-01 Ramsdell Quarry Landfill at the Ravenna Army Ammunition Plant, Ravenna, Ohio. SAIC. 24 May 2013.

Revised Final Modified Proposed Plan for Soil and Dry Sediment at RVAAP-01 Ramsdell Quarry Landfill at the Ravenna Army Ammunition Plant, Ravenna, Ohio. SAIC 2012. 6 June 2012.

Revised Final Remedial Design for the RVAAP-01 Ramsdell Quarry Landfill at Ravenna Army Ammunition Plant. SAIC. 17 June 2010.

Open Demolition Area #2

Final Record of Decision for Sediment and Surface Water at Six Areas of Concern/Munitions Response Sites. Leidos. 4 June 2020.

Final Proposed Plan for Sediment and Surface Water at Six Areas of Concern/Munitions Response Sites. Leidos. 10 May 2019.

Final Project Management Plan for the Performance-Based Acquisition of Six Environmental Areas of Concern at the Ravenna Army Ammunition Plant. SAIC. 1 March 2010.

Final Construction Completion Report Time Critical Response Action for the Rocket Ridge Area of Open Demolition Area #2 (RVAAP-004-R-01 Open Demolition Area #2 MRS) Military Munitions Response Program. e2M. September 2008.

Final Record of Decision for Soil and Dry Sediment at the Open Demolition Area #2 (RVAAP-04). SAIC. September 2007.

Final Proposed Plan for Soil and Dry Sediment at Open Demolition Area #2 (RVAAP-04). SAIC. February 2007.

Winklepeck Burning Grounds

Final Remedial Action Completion Report for the Soil Removal Remedy at RVAAP-05 Winklepeck Burning Grounds. Tetra Tech. February 2018.

Final Remedial Design Supplement Soil Removal Action at RVAAP-05 Winklepeck Burning Grounds. Tetra Tech. 30 June 2016.

Final Remedial Design for the Post-ROD Changes to the Remedy at RVAAP-05 Winklepeck Burning Grounds, Former Ravenna Army Ammunition Plant/Camp Ravenna. USACE. 27 August 2015.

Final Record of Decision for Soil and Dry Sediment at RVAAP- 05 Winklepeck Burning Grounds at Ravenna Army Ammunition Plant. SAIC. Aug 2008.

Proposed Plan for the Winklepeck Burning Grounds, Ravenna Army Ammunition Plant, Ravenna, Ohio. SAIC. Dec 2005.

Load Lines 1, 2, 3 4 and 12

Final Remedial Action Completion Report, Load Lines 1, 2, 3, 4 and 12, (RVAAP-08 to 12). CH2M. October 2021.

Final Remedial Design Work Plan for RVAAP Load Lines 1, 2, 3, 4, and 12 (RVAAP-08 to 12). CH2M. September 2020.

Final Record of Decision Amendment for Soil, Sediment, and Surface Water at RVAAP Load Lines 1, 2, 3, 4, and 12. Leidos. 23 December 2019.

Final Proposed Plan for Wet Sediment and Surface Water at RVAAP 12 Load Line 12. Leidos. 9 November 2017.

Final Remedial Design for RVAAP-12 Load Line 12 at Ravenna Army Ammunition Plant, October 2009.

Final Record of Decision for Soil and Dry Sediment at RVAAP-12 Load Line 12. SAIC Engineering of Ohio. 14 April 2009.

Final Revised Interim Record of Decision for the Remediation of Soils at RVAAP-08, 09, 10, and 11 Load lines 1 – 4. Shaw Environmental; USACE. 18 January 2007.

Final Proposed Plan for the Remediation of Soils at Load Lines 1 through 4 at the Ravenna Army Ammunition Plant Ravenna, Ohio, July 2005.

Dump Along Paris-Windham Road

Final Remedial Design for Soil at RVAAP-51 Dump Along Paris-Windham Road. Chenega/USACE. February 2019.

Final Record of Decision for Soil, Sediment and Surface Water at RVAAP-51 Dump Along Paris-Windham Road. USACE. September 2017.

Final Proposed Plan for Soil, Sediment, and Surface Water for RVAAP-51 Dump Along Paris-Windham Road. SAIC/USACE. September 2016.

Appendix A

2021 RVAAP-01 RQL Access Logs

Sign In/Out Sheet for Ramsdell Quarry Landfill – Please sign in and out when entering and exiting the Ramsdell Quarry Landfill.
Please also note what activities were performed and what areas of the AOC were accessed.

Name/Company	Date	Time In	Time Out	Description of Activities Performed (i.e., mowing, gw sampling, etc)	Areas Accessed (please choose and check)
Brad Klim OHARNG	5 JAN 2021	1145	1315	Sample Locations - Set Markers	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Brad Klim OHARNG Katie Tait OHARNG	14 JAN 2021	0945	1245	RQL Punch Box Testing	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Joe Grant Eurofins Will Cordell Eurofins	14 JAN 2021	0945	1245	RQL Punch Box Testing	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Brad Klim Brian Riley	21 JAN 2021	1105	1135	RQL Punch Box Testing Grabbing Coordinates	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Al Brillinger / chenega	15 MAR 2021	0930	1000	RQL quarterly pre-insp.	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
GARY B. ZACH R.	16/3/21	1:10	3:20	TREE REMOVAL, N-EAST FIELD	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Al Brillinger chenega	22 MAR 2021	10:10	10:50	RQL quarterly insp.	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Brad Klim OHARNG	22 MAR 2021	1010	10:50	RQL Quarterly Inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap

Sign In/Out Sheet for Ramsdell Quarry Landfill – Please sign in and out when entering and exiting the Ramsdell Quarry Landfill.
Please also note what activities were performed and what areas of the AOC were accessed.

Name/Company	Date	Time In	Time Out	Description of Activities Performed (i.e., mowing, gw sampling, etc)	Areas Accessed (please choose and check)
Aybell PCHD	3-21-2021	10:10	10:50	1st quarter inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Al Brillinger Chenega	6-21-2021	10:25	11:25	2nd quarter inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Aybell	6-21-2021	10:30	11:25	2nd quarter inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Jason Alchier	6-21-2021	10:30	11:25	2nd quarter	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Brad Kline	6-21-21	1030	11:25	2nd Quarterly Inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Zach Nestor Gary Brunswick	6-27-21	13:31	15:40	Mowing and weeding whacking fence and wells	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
GARY B,	9-28	8:35	15:30	" "	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
GARY B, ZACH K,	9-29	8:45	15:20	" "	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap

Appendix B

2021 RVAAP-01 RQL Photographs



East gate at Ramsdell Quarry Landfill.



Eastern portion of Ramsdell Quarry Landfill, looking north from the southeast portion of the site.



Southwest portion of Ramsdell Quarry Landfill, looking west.



Western portion of Ramsdell Quarry Landfill as seen from the southwestern portion of the site.

Appendix C

2021 RVAAP-04 ODA2 Photographs



Main gate at Open Demolition Area #2.



Open Demolition Area #2 looking north from main access road, showing portions of the soil cover/source area and kick-out area.

https://chenega.sharepoint.com/sites/project/830003/Shared Documents/Technical/LUC Reports/2021 LUC/Final/FINAL_2021_Annual_LUC_Report Combined.docx

Appendix D

2021 RVAAP-05 WBG Photographs



Winklepeck Burning Grounds George Road (south) gate.



Winklepeck Burning Grounds, looking southeast from the eastern portion of the site.



Winklepeck Burning Grounds, looking northeast from the eastern portion of the site.



Winklepeck Burning Grounds, looking northeast from the-central portion of the site.

Appendix E

2021 RVAAP 8-11 Load Lines 1, 2, 3 4 and 12 Photographs



Load Line 1 restored soil remediation area.



Load Line 1, from central western portion of the site looking north.



Load Line 2, looking northwest from the southeast portion of the site.



Load Line 2, from south-central portion of the site looking west.



Load Line 3, from north-central portion of the site looking south.



Load Line 3, restored area in the central portion of the site.



Load Line 4, from central portion of the site looking southeast.



Load Line 4, from the central portion of the site looking north.



Load Line 12, from the north-central portion of the site looking west.



Load Line 12, from the south portion of the site looking towards the northwest.

Appendix F

2021 RVAAP-51 Dump Along Paris-Windham Road Photographs



RVAAP-51, asbestos warning sign delineating Land Use Control area along Paris-Windham Road.



RVAAP-51, warning sign and Seibert Stake delineating Land Use Control area along Paris-Windham Road.



RVAAP-51, Land Use Control area looking south from central portion of the site.



RVAAP-51, Land Use Control area looking north from the central portion of the site.