

Final
2019 Annual Land Use Control Monitoring Report,
RVAAP-01 Ramsdell Quarry Landfill,
RVAAP-05 Winklepeck Burning Grounds,
RVAAP-08 through RVAAP-11 (Load Lines 1 through 4),
RVAAP-12 (Load Line 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:



May 20, 2020

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***Place Holder for
Ohio EPA Approval Letter***

(Letter will be inserted upon approval)

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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

ARNG = Army National Guard

ARNG-IED-CR = Army National Guard – Installation Environmental Division – Cleanup Restoration

DERR = Division of Environmental Response and Revitalization

EPA = Environmental Protection Agency

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
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
USP&FO	United States Property and Fiscal Officer
WBG	Winklepeck Burning Grounds

SECTION 1.0 INTRODUCTION

1.1 Report Introduction

As of December 2019, 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 Line 12 and the Dump Along Paris-Windham Road.

The Final Revised Interim Record of Decision (ROD) did not contain any formal LUCs for Load Lines 1, 2, 3 and 4. The Land Use for these areas was designated as National Guard, Mounted Training (No Digging). Until the remedial process is completed at these four Areas of Concern (AOCs), the Ohio Army National Guard (OHARNG) will ensure land use is maintained as Mounted Training – No Digging (tracked and wheeled vehicle use, no digging beyond 4 feet below ground surface (bgs), exposure of 24 hours/day for 39 days/year for 25 years). Annual inspections are required to confirm that the land use is consistent with the requirements of the Interim ROD.

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 reviewed the following AOCs:

- RVAAP-01 Ramsdell Quarry Landfill,
- RVAAP-05 Winklepeck Burning Grounds,
- RVAAP-08 through 11 Load Lines 1, 2, 3 and 4,
- RVAAP-12 - Load Line 12, and
- RVAAP-51 - Dump Along Paris-Windham Road.

A review of LUCs at Load Line 12 and remedy components at Load Lines 1-4 was completed in 2019 and this is the third annual report for those areas. This is the seventh annual LUC report completed for WBG and the fifth annual LUC report for RQL. This is the first annual LUC report for Dump Along Paris-Windham Road.

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 LUC Monitoring Report for WBG.

Section 4.0 - Annual Monitoring Report for Load Lines 1 – 4

Section 5.0 – Annual LUC Monitoring Report for Load Line 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 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 March 30, 2018 and in effect during 2019) 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 2018 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 2019 for RQL, WBG, Load Line 12, and Dump Along Paris-Windham Road as well as the monitoring of the remedy components at Load Lines 1, 2, 3 and 4.

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 Ravenna/former RVAAP PMP (dated March 2018) 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 20, 2019. This annual report covers the period of January 2019 through December 2019.

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 are required to be conducted on an annual basis and inspections of the solid waste landfill are conducted in accordance with State of Ohio solid waste regulations. 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?*

Minor soil depressions and animal burrows within the AOC both on and off the landfill cap were filled with clean soil and seeded in March and November 2019. The 5-wire tensile fence surrounding the LUC area was repaired in April, October and November 2019. Repair activities were conducted in accordance with solid waste regulations. Annual mowing was conducted for the RQL in September 2019.

Groundwater monitoring activities were conducted at the RQL in 2019 during two semi-annual groundwater sampling events. The Spring sampling event was conducted in April and May and the Fall sampling event was conducted in September and October.

- 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 has been conducted, only repair activities (soil fill) to repair any animal burrows or soil depressions on the landfill cap. 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 2019 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 20, 2019. Other inspections in 2019 included quarterly landfill inspections conducted by Chenega Tri-Services, LLC and /or OHARNG as required by the State of Ohio solid waste regulations. Photographs of the RQL LUC area taken during 2019 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 in 2015, 2016, 2017 and 2018. This is the fifth 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).

LUC training is provided annually to all Camp James A. Garfield staff and tenant units and was conducted on March 26, 2019. The LUC training is typically provided by Katie Tait and/or Tim Morgan, OHARNG-Environmental. The training provides 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. Training was conducted for additional Camp James A. Garfield staff that missed the training dates as needed.

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 three contractors in 2019. 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 2019 indicate that the most any one worker (JT, a maintenance worker from Vista Sciences Corporation (VSC)) was working inside the RQL AOC was 48.0 hours in 2019. A breakdown of this maintenance worker's time within RQL is as follows: 10.5 hours over 5 days spent conducting soil and fence repairs, and groundwater monitoring well maintenance. This worker also spent 37.5 hours over 5 days in 2019 conducting mowing. Therefore, the total exposure in RQL for anyone accessing the AOC did not exceed 250 hours for 2019.

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 2018 is as follows:

- 2015 – 41 hours
- 2016 – 20 hours
- 2017 – 23.5 hours
- 2018 – 14.75 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.

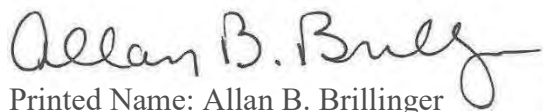
Description of any corrective actions taken to remedy observed LUC violations or recommended corrective actions: Not applicable.

Additional Notes/Comments:

Several wire connectors that attached several of the wire fence strands to fence posts along the east side of the site were broken, which allowed several of the tensile wire fence strands to sag. The wire connectors were repaired on November 6, 2019 and the 5-wire spacing adjusted to provide an effective barrier.

Original Inspection Completed by:

Signature:



Printed Name: Allan B. Brillinger

Title: Program Manager

Organization: Chenega Tri-Services, LLC

Date: December 31, 2019

SECTION 3.0 ANNUAL LUC MONITORING REPORT FOR WINKLEPECK BURNING GROUNDS

3.1 Winklepeck Burning Grounds

In accordance with the Camp Ravenna/former RVAAP Property Management Plan (PMP) dated March 2018 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 December 30, 2019. This annual report covers the period of January 2019 through December 2019.

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.

3.2 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. There have been no other land uses or land use changes over the past year.

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?

Semi-annual groundwater monitoring activities in 2019 were conducted at the WBG. The Spring sampling event was conducted in April and May, and the Fall sampling event was

conducted in September and October. The groundwater sampling was conducted in accordance with the FWGWMPP, and within the LUCs established for WBG.

2. Inspections and Reporting

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

The annual LUC inspection was conducted on December 30, 2019. Photographs of the WBG LUC area taken during 2019 are presented in Appendix C.

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

The Final 2018 Annual LUC Monitoring Report for WBG was submitted to the Ohio EPA on May 24, 2019.

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).*

LUC training is provided annually to all Camp James A. Garfield staff and tenant units and was conducted on March 26, 2019. The LUC training is typically provided by Katie Tait and/or Tim Morgan, OHARNG-Environmental. The training provides 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. Training was conducted for additional Camp James A. Garfield staff that missed the training dates as needed.

- 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 2019 through December 2019).

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:

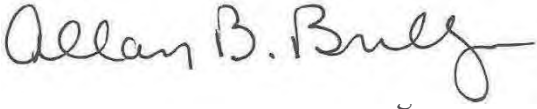
Not applicable.

7. Additional Notes/Comments:

None.

Original Inspection Completed by:

Signature:

A handwritten signature in black ink that reads "Allan B. Bully". The signature is written in a cursive style with a large, stylized 'A' and 'B'.

Title: Program Manager

Organization: Chenega Tri-Services, LLC

Date: December 30, 2019

SECTION 4.0 ANNUAL MONITORING REPORT FOR LOAD LINES 1, 2, 3 AND 4

4.1 Load Lines 1, 2, 3, and 4

According to the *Final Interim Record of Decisions (ROD) for the Remediation of Soils at Load Lines 1 through 4 at the Ravenna Army Ammunition Plant*, dated January 2007, the selected remedy included soil excavation and the following components:

- Groundwater monitoring to ensure the remedy did not impact groundwater;
- Maintenance of building slabs and foundations; and
- Five year reviews in accordance with CERCLA 121(c) and 300.430(f)(4)(ii).

The 2007 Interim ROD further indicated that “for the selected remedy, groundwater monitoring will be performed for five years at select existing wells in Load Lines (LL) 1-4 to monitor for potential impacts to groundwater from remedy implementation. Groundwater monitoring data will supplement data from the Facility-Wide Groundwater Monitoring Program. Groundwater samples will be collected semi-annually for the first two years after remedy implementation. The sampling frequency thereafter will be based on the laboratory results. Groundwater samples will be submitted to an environmental chemistry laboratory for analysis of the full suite of constituents (i.e., VOCs, SVOCs, PCBs, pesticides, explosives, propellants and TAL metals). Findings will be evaluated in the context of the Facility-Wide Groundwater Monitoring Program and any action will be determined by the Army, with approval by Ohio EPA. In addition, the concrete slabs and building foundations that remain in place after remediation will be inspected periodically to ensure their integrity has not been compromised allowing infiltration to potentially contaminated soils underneath. The remedial action will be subjected to five-year reviews as part of the CERCLA process to assure that human health and the environment are being protected.” According to the Interim ROD, the intended future use of the AOCs is Mounted Training – No Digging.

Based on the 2007 Interim ROD, the U.S. Army will conduct the following to ensure the components of the selected remedy are met:

- Ensure that groundwater monitoring was conducted for five years after the remedial action was completed in 2007/2008;
- Ensure that building slabs and foundations were maintained and inspected periodically if in place;
- Ensure land use is maintained as Mounted Training – No Digging (tracked and wheeled vehicle use, no digging beyond 4 feet bgs, exposure of 24 hours/day for 39 days/year for 25 years); and
- Conduct five-year reviews as necessary.

The Inspection Form for Load Lines 1, 2, 3 and 4 was assembled in October 2017, and was included as part of the Final PMP in March 2018.

4.2 Load Lines 1 – 4 Annual Inspection Form

Former RVAAP Inspection Form for RVAAP-08 Load Line 1, RVAAP-09 Load Line 2, RVAAP-10 Load Line 3, and RVAAP-11 Load Line 4 Areas of Concern (AOC)

In accordance with the Camp Ravenna/former RVAAP PMP (dated March 30, 2018), an annual inspection of RVAAP-08, 09, 10, and 11 (Load Lines 1, 2, 3 and 4) was conducted by Allan Brillinger (Chenega Tri-Services, LLC) on behalf of the RVAAP restoration program on November 21, 2019.

Inspection Form for Load Lines 1, 2, 3 and 4

1. Activities and Land Use:

- a. This AOC is to be managed as Mounted Training – No Digging. What activities have occurred at LL1 – 4 within the last year? Are the activities within the established use for the AOCs?*

The only activities at LL1 – 4 in 2019 were groundwater monitoring well sampling and mowing of access roads. The sites have not been used for training. Photographs of LL 1 - 4 taken during 2019 are presented in Appendix D.

- b. Are the activities being conducted at LL1 – 4 in compliance with established digging restrictions and exposure parameters?*

No digging was observed or reported to have taken place at the AOCs in 2019.

2. Inspections and Reporting:

- a. Has a 5-Year Review been completed for this AOC as required?*

Two 5-Year Reviews have been completed for these AOCs. The first 5-Year Review was completed in August 2012 and the second 5-Year Review was completed in June 2017.

3. Groundwater Monitoring:

- a. Was groundwater monitoring conducted for 5 years after the remedial action in accordance with the Interim ROD?*

Groundwater monitoring has been performed at least annually at the AOCs since 2005 as part of a facility-wide groundwater monitoring program.

4. Concrete Slabs and Building Foundations:

- a. Were the concrete slabs and building foundations inspected periodically to ensure their integrity has not been compromised allowing infiltration to potentially contaminated soils underneath?*

Not Applicable. Slabs and building foundations have been removed.

Additional Notes/Comments

None.

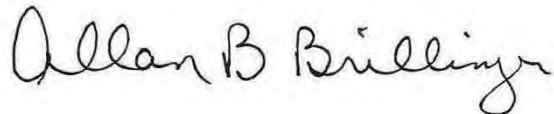
Inspection Completed by:

Date: November 21, 2019

Name/Title: Allan B. Brillinger, Program Manager

Organization: Chenega Tri-Services, LLC

Signature:

A handwritten signature in black ink that reads "Allan B Brillinger". The signature is written in a cursive style with a large initial 'A' and 'B'.

SECTION 5.0 ANNUAL LUC MONITORING REPORT FOR LOAD LINE 12

5.1 Load Line 12

According to LUCs set forth in the *Final Remedial Design for the RVAAP-12 Load Line 12*, dated 1 October 2009, 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 2009 RD document, the U.S. Army will implement LUCs to achieve the performance objectives listed below for LL12:

- Maintain the Camp James A. Garfield perimeter fence – Land use of LL12 shall be limited by the maintenance of the existing Camp James A. Garfield perimeter fence which shall be of 6-foot, chain-link fence topped with v-shaped bracket slanting inward and outward with a three-strand barbed wire bracket.
- Restrict future land use to National Guard mounted training – Land use shall be limited to use of LL12 for National Guard mounted training operations. Activities at LL12 shall be limited to the following: tracked and wheeled vehicle operations and associated training activities along with training area development and maintenance, maintaining the integrity of monitoring wells, road and culvert repair, routine ditch maintenance, vegetation management, and compatible natural resources management activities;
- Maintain a LUC training program;
- Limit activities to tracked and wheeled operations that are consistent with the National Guard mounted training scenario and other essential security, safety, and natural resources management activities (National Guard Trainee – Mounted Training - 24 hours/day for 39 days/year for 25 years); and
- Prohibit digging beyond four (4) feet bgs except for routine maintenance of roads, ditches and culverts, and ground surface repairs resulting from maneuver damage.

Therefore, the annual LUC inspection shall include the following (at a minimum):

- Inspection of the Camp James A. Garfield perimeter fence;
- Review of activities at LL12 including exposure timeframes, signage/markers, types of activities performed, and any disturbance/digging activities;
- Review of LUC training program as applicable to LL12;

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.

5.2 Load Line 12 Annual Inspection Form

In accordance with the Camp Ravenna/former RVAAP PMP (dated March 30, 2018), a LUC inspection of RVAAP-12 Load Line 12 was conducted by Allan Brillinger (Chenega Tri-Services, LLC) on behalf of the RVAAP restoration program in November and December 2019.

Review of LUCs – Management/Effectiveness/Corrective Action

1. Activities and Land Use:

- a. This AOC is to be managed as National Guard Trainee - Mounted Training. What activities have occurred at LL12 within the last year? Are the activities within the established limitations of use for the AOC?*

The only activities at LL12 in 2019 were groundwater monitoring well sampling, mowing of access roads and beaver dam removal. The site has not been used for training. Photographs of the LL12 LUC area taken during 2019 are presented in Appendix E.

The Load Line 12 Access Logs are presented in Appendix F, and show the personnel that accessed the site and the activities they were engaged in. This AOC currently has limited access and the exposure to personnel is within established limitations.

- b. Are the activities being conducted at LL12 in compliance with established digging restrictions and exposure parameters? How is this being tracked and managed?*

No digging was observed or reported to have taken place at the AOC in 2019.

- c. Are signage/markers in place to identify areas where the LUCs apply? Are they being maintained?*

Although not required for this AOC, appropriate signage is posted at the locked Load Line gates limiting access to authorized personnel only.

- d. Is the Camp James A. Garfield perimeter fence and associated gates being maintained in order to be an effective and protective control and deter trespassers?*

The 6-foot high perimeter fence around the facility was inspected in December 2019 and January 2020. The defects noted during the 2019 annual perimeter fence inspection are summarized in Appendix G, and shown on the maps in Appendix H. Defects are reported to the Army and the facility maintenance staff for repair.

2. Inspections and Reporting:

- a. Inspections are required on an annual basis. Are annual inspections being conducted as required?*

This is the third annual LUC inspection for Load Line 12 and was conducted in December 2019 and January 2020.

- b. An Annual Report is required. Has the annual report been completed and submitted to the Ohio EPA? Did the annual report provide a written certification stating whether or not the LUCs remain in place and effective?*

This is the third annual LUC Inspection report for Load Line 12. It contains written certification (see Section 7) stating that the LUCs are in place and effective.

- c. Are the LUCs for LL12 incorporated into the Property Management Plan (PMP) (i.e., map indicating the location and dimensions of the AOC with the LUC location, environmental overlay and appropriate Ohio EPA notice procedures)?*

The LUCs for Load Line 12 have been incorporated into the PMP.

- d. Has a 5-Year Review been completed for this AOC as required?*

Two 5-Year Reviews have been completed for this AOC. The first 5-Year Review was completed in August 2012 and the second 5-Year Review was completed in June 2017.

3. Training/Inbriefs (as applicable to LL12):

a. Is a LUC training program in place and being conducted as applicable to LL12? Describe the training (content/who attended/who provided/documentation of training).

LUC training is provided annually to all Camp James A. Garfield staff and tenant units and was conducted on March 26, 2019. The LUC training is typically provided by Katie Tait and/or Tim Morgan, OHARNG-Environmental. The training provides 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/MRS, and specific LUC and other restrictions for LL-12, as well as other areas at Camp James A. Garfield. Training materials and rosters are on file in the OHARNG-Environmental Office. Training was conducted for additional Camp James A. Garfield staff that missed the training dates as needed.

A "Land Use Control (LUC) Brief for Contractors/Personnel" was conducted for all personnel/contractors that entered the AOC. The brief consisted of a review of the LL 12 site history, the environmental hazards present at LL 12, the LUC s that have been instituted, and the requirements of all personnel that enter the LUC area. All personnel that have received the brief sign the briefing form that states that they have been briefed and understand the LL 12 LUC requirements, and that they will comply with all requirements. The briefing was provided for two contractors in 2019. The signed briefing forms are kept on file at the OHARNG-Environmental office.

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

Not Applicable.

4. LUC Evaluation and Reporting of Violations (if any):

a. Are LUCs in place and being effectively managed at LL12?

Land Use Controls are in place and being effectively managed at Load Line 12.

b. Were any LUC violations or deficiencies noted?

No LUC Violations or deficiencies were noted on the LL-12 AOC site. Perimeter fence defects and repairs are summarized in the "2019 Camp James A. Garfield Perimeter Fence Callout/Repair Summary Table" (Summary Table located in Appendix G) and shown on the call-out detail maps in Appendix H.

All of the perimeter fence defects called out during the 2018 inspection have been repaired as of January 7, 2020, except for SW48 and SE07. SW48 and SE07 are culvert washouts. Culvert washout repairs are beyond the capability of the in-house maintenance staff. Culvert repairs are contracted out to qualified contractors. Photographs of the repairs completed after the 2019 fence inspection will be presented in the 2020 Annual LUC Report (if required).

Additional Notes/Comments:

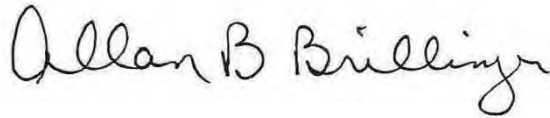
None.

Date: January 8, 2020

Name/Title: Allan B. Brillinger, Program Manager

Organization: Chenega Tri-Services, LLC

Signature:

A handwritten signature in black ink that reads "Allan B Brillinger". The signature is written in a cursive style with a large initial 'A' and 'B'.

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 RD document, the U.S. Army will implement 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 20, 2019.

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 Army National Guard (ARNG)/Ohio Army National Guard (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 2019.

- 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 I.

- 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 2019.

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. This is the first annual LUC inspection for this AOC.

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

The LUCs at the AOC were implemented in 2019. This is the first annual LUC inspection report for this AOC.

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).

LUC training is provided annually to all Camp James A. Garfield staff and tenant units and was conducted on March 26, 2019. The LUC training is typically provided by Katie Tait and/or Tim Morgan, OHARNG-Environmental. The training provides 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 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. Training was conducted for additional Camp James A. Garfield staff that missed the training dates as needed.

- 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 2019.

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:

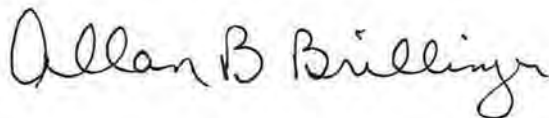
Not applicable.

7. Additional Notes/Comments:

None.

Original Inspection Completed by:

Signature:



Printed Name: Allan B. Brillinger

Title: Program Manager

Organization: Chenega Tri- Services, LLC

Date: November 21, 2019

SECTION 7.0 CONCLUSIONS

7.1 General LUC Training

The OHARNG provided 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 2019. 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 2019 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 WBG

The land use at WBG is Commercial/Industrial use. Based on the 2019 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.

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

Load Lines 1, 2, 3 and 4 were remediated for use as Mounted Training - No Digging for the National Guard Trainee. Based on the 2019 inspection, there were no inconsistent uses or activities discovered or reported at these AOCs that were inconsistent with the designated use. Load Lines 1, 2, 3 and 4 were not used for military training in 2019. Land use is consistent with the remedies at the site and monitoring is effective.

7.5 Land Use Consistency and Land Use Control Effectiveness at Load Line 12

Load Line 12 was remediated for use as Mounted Training - No Digging for the National Guard Trainee. Based on the 2019 inspection, there were no inconsistent uses or activities discovered or reported at Load Line 12. The AOC is not currently being used for military training. A LUC in-brief was provided to all personnel entering LL12. 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 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 2019 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 2019. Annual LUC training was provided to full-time staff and tenant units at the facility for this and other AOCs.

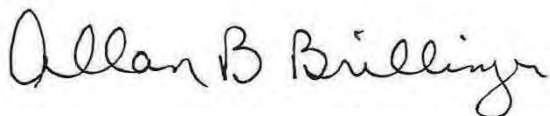
Land use is consistent with the designated LUCs and LUCs have been implemented and are effective.

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

For Load Line 12, the annual perimeter fence inspection was conducted. Minor defects/deficiencies were noted during the inspection. Repairs for fence defects noted in the 2018 Annual LUC report were completed for most of the defects except for the culvert deficiencies which are beyond the capability of the facility maintenance staff (must be contracted and completed by a construction company). The defects noted for the 2019 annual perimeter fence inspection will be completed by the facility maintenance staff or outside contractors as appropriate. No other deficiencies were identified and therefore no other corrective actions were completed.

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, Winklepeck Burning Grounds, Load Lines 1 through 4, Load Line 12 and Dump Along Paris-Windham Road are in place and remain effective.



(signature)

January 8, 2020

(date)

Allan B. Brillinger
(printed name)

Program Manager, Chenega Tri-Services, LLC
(Title).

(signature)

(date)

David M. Connally
(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 2.0, Former Ravenna Army Ammunition Plant, Camp Ravenna Joint Military Training Center, Portage and Trumbull Counties, Ohio, US Army Corps of Engineers. March 30, 2018.

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.

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 and 4

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.

Load Line 12

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.

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

2019 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 Kline / OHARNG Al Brillinger / Chenega	11/16/19	0845	0915	RQL Site Visit	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
GARY B, Jack T.	3/13/19	1:00	3:30	FILL hole hole	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Al Brillinger - Chenega	3/15/19	10:00	1105	RQL Quarry Inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Brad Kline OHARNG	3/15/19	1000	1105	RQL Quarry Inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Jack Madril Portage County Health	3/15/19	1000	1105	RQL Quarry Inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
GARY B JACK T.	3/20/19	1300	1400	FILL hole	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Al Brillinger Chenega	4/12/19	1020	1035	check soil repairs	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
Jacob Thomas	4/22/19	1:00	3:00	FILL hole	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input 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)
Charles Spurr/Leidos Jed Thomas/Leidos	4/29/19	0955	1120	Groundwater well gauging	<input type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
Ryan Lunnich / LEIDOS GABBY GROMOFFSKY / LEIDOS	5/6/19	0815	1355	Groundwater Sampling	<input type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
Lindsey Meyer	5/9/19	1240	1250	Groundwater sampling	<input type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
Charles Spurr Leidos	5/19/19	1320	1340	Sample pick-up	<input type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
Brad Klim (OHARUG) Katie Tuit (OHARUG) Gary Brunswick (Vista)	6/4/19	0845	0937	Quarterly Inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Mary Helen Smith (Portage) Justin Redicker (Portage) Josh Adams (OH EPA)	6/4/19	0845	0937	Quarterly Inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Al Brillinger (Chenega)	6/7/19	11:05	11:40	Quarterly Inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
G.B. & J.T. VISTA,	9/9/19	8:30	4:00	mowing & W.E,	<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)
G. B. + J.T. WISTA	9-10-19	8:30	4:00	mowing + w, E,	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
G. B. + J.T. WISTA	9-11-19	8:30	4:00	" "	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
GB + J.T. WISTA	9-12-19	8:30	4:00	" "	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
GB + J.T. Wista	9-16-19	8:30	4:00	" "	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
A. Brillinger - chenega Brad Kline - OHARNG	9-18-19	11:00	11:30	pre-inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Jole Flores	9/17/19	12:30	3:00	Paint	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Al Brillinger chenega Brad Kline - OHARNG	9/23/19	10:00	11:05	Quarterly Inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Justin Richman	9/23/19	10:10	11:05	Quarterly Inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input 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)
Mary Helen Smith	9/23	10:10	11:05	PLM quarterly insp.	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Charles Spurr Jasmine Stefonsky	10/7/19	0810	11:30 1415	Groundwater sampling	<input type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
Linda Mae	10/7/19	0958	1415	↓	<input type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
HAKE/Blans	10/10/19	0939	1010	SAMPLE PICK-UP	<input type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
Al Brillinger/ Chenega	10/25 2019	10:20	10:50	Quarterly pre-insp.	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Al Brillinger/ Chenega	11/1 2019	10:00	11:35	Quarterly inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Brad Klim OHAWE	11/1/19	1000	11:35	Quarterly Inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Mary Helen Smith	11/1	10:00	11:35	11	<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)
VISTA S. GARY - JACK,	11-06	13:15	15:45	REPAIR OF FENCING + FENCING -	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Al Brillinger/ Chenega	11/20 2019	11:10	12:00	Annual LUC inspection	<input checked="" type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
					<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
					<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
					<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
					<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
					<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
					<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap

Appendix B

2019 RVAAP-01 RQL Photographs



West part of Ramsdell Quarry Landfill, looking south from north fence and showing 5-wire tensile fence.



Looking north from the mid-southern fence line.



Southwest corner of Ramsdell Quarry Landfill, looking east.



Southeast corner of Ramsdell Quarry Landfill as seen from the mid-southern portion of the site.

Appendix C

2019 RVAAP-05 WBG Photographs

Winklepeck Burning Grounds photographs



Winklepeck Burning Grounds field, looking south from the central portion of the site.



Winklepeck Burning Grounds field, looking west from central portion of the site.

Winklepeck Burning Grounds photographs



Winklepeck Burning Grounds field, looking north from the central portion of the site.



Winklepeck Burning Grounds field, looking east from the central portion of the site.

Appendix D

2019 RVAAP 8-11 Load Lines 1, 2, 3 and 4 Photographs

2019 Load Lines 1, 2, 3 and 4 photographs



Load Line 1 south gate.



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

2019 Load Lines 1, 2, 3 and 4 photographs



Load Line 2 field, east-central portion of the site looking northwest.



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

2019 Load Lines 1, 2, 3 and 4 photographs



Load Line 3 field, from southwest portion of the site looking northeast.



Load Line 3 field, from northeast portion of the site looking southwest.

2019 Load Lines 1, 2, 3 and 4 photographs



Load Line 4 field, from west-central portion of the site looking east.



Load Line 4 field, from the northeast portion of the site looking south.

Appendix E

2019 RVAAP-12 Load Line 12 Photographs

2019 Load Line 12 photographs



Load Line 12, looking north from the south gate.



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

2019 Load Line 12 photographs



Load Line 12 field, from the north portion of the site looking south.



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

Appendix F

2019 RVAAP-12 Load Line 12 Access Logs

LOAD LINE 12

Sign In/Out Sheet for Load Line 12 - Please sign in and out when entering and exiting Load Line 12. Please also note what activities were performed and what areas of the AOC were accessed.

Printed Name/Company	Date	Time In	Time Out	Description of Activities Performed (i.e. mowing, GW Sampling/Maint. Training, etc.)	Areas Accessed
Take Thomas Vista	10/24/18	9:00	10:30	Tree removal	
Ryan Lunn Roman ZSS	10/31/18	0800	1400	Groundwater Sampling	
Al Brillinger Chenega	11/14/18	14:40	1500	Annual Inspection	
Don Trocchio CHENEGA	1/4/19	13:32	14:10	2018 ANNUAL LUC INSPECTION FOR LL12 & Perimeter FENCE	ALL ACCESS PTS. AROUND PERIMETER.

LOAD LINE 12

Sign In/Out Sheet for Load Line 12 - Please sign in and out when entering and exiting Load Line 12. Please also note what activities were performed and what areas of the AOC were accessed.

Printed Name/Company	Date	Time In	Time Out	Description of Activities Performed (i.e. mowing, GW Sampling/Maint. Training, etc.)	Areas Accessed
KEVIN SEDLAK ARNG	4/2/19	0942	1035	Checking Well Access	All
Al Brillinger Chenega	4/19/19	1120	1150	check well access	
Rhonda Lamm Lindsey Moyer	4/25/19	1159	1422	well GWS	All
Rhonda Lamm Lindsey Moyer	5/1/19	0815	1515	GWS	All
Lindsey Moyer	5/2/19	0820	1310	GWS	ALL
KEVIN SEDLAK	7/15/19	0925	1028	ARNG	All
Gray - Jackson VISTA	7/11/19	8:00	4:00	mowing	ALL
"	7/12/19	10:00	3:45	"	"
Kevin Sedlak	7/17/19	1052	1152	Site Visit	All

LOAD LINE 12

Sign In/Out Sheet for Load Line 12 - Please sign in and out when entering and exiting Load Line 12. Please also note what activities were performed and what areas of the AOC were accessed.

Printed Name/Company	Date	Time In	Time Out	Description of Activities Performed (i.e. mowing, GW Sampling/Maint. Training, etc.)	Areas Accessed
CRAIG COMBES USACE	7/17	1050	1150	SITE VISIT	ALL
Ed Border USACE	7/17	1050	1150	"	"
Greg Healy Tetra Tech	7/17	1050	1150	"	"
JACK M. Iler Tetra Tech	7/17	1050	1150	"	"
Ken Horley APTIM	7/17	1050	1150	"	"
Chris Artz URS	7/17	1050	1150	"	"
Kaylyn Ramirez Endpoint	7/17	1050	1150	"	"
Brenda Pratt URS	7/17	1050	1150	"	"
Arnold Romo Lopez USACE	7/17	1050	1050	"	"

LOAD LINE 12

Sign In/Out Sheet for Load Line 12 - Please sign in and out when entering and exiting Load Line 12. Please also note what activities were performed and what areas of the AOC were accessed.

Printed Name/Company	Date	Time In	Time Out	Description of Activities Performed (i.e. mowing, GW Sampling/Maint. Training, etc.	Areas Accessed
KEVIN SEOLAK	7/31/19	10:00	11:00	Site Walk	All
Denis Ewing/CH2M	7/31/19	10:08	11:00	Site walk	All
Jaleo Thomas/Vista	8/2/19	1:30	3:30	Paint Wells	All
A. Brillinger/chonaga	8/7/19	1:35	-2:00	check mon. wells	All
SFC FRIENT RMA	9 SEP 19	1346	1450	Beaver Dam Removal	creekside
SFC FRIENT RMA	10 SEPA	1348	1400	Beaver Dam Check	creekside
Jaleo Thomas/Vista	9/24/19	2:30	3:30	Paint	All
Jaleo Thomas	9/25/19	2:30	3:45	Trim	All
Lindsey Mcg	10/7/19	14:24	15:43	Gw sampling	All

LOAD LINE 12

Sign In/Out Sheet for Load Line 12 - Please sign in and out when entering and exiting Load Line 12. Please also note what activities were performed and what areas of the AOC were accessed.

Printed Name/Company	Date	Time In	Time Out	Description of Activities Performed (i.e. mowing, GW Sampling/Maint. Training, etc.)	Areas Accessed
Lindsey Mac / Leidos	10/8/19	0805	1416	GW sampling	All
Jasmine Stefensky / Leidos	10/8/19	0805	1530	GW Sampling	All
Jalco Thomas / Vista	10/24/19	10:00	10:30	Paint well	All
Al Brillinger	10/25/19	11:55	12:00	check MW-LL12-183	LL12-183
Jake Thomas / Vista	10/29/19	12:00	3:15	Paint	All
Jalco Thomas / Vista	10/30/19	12:00	3:15	Paint	All
Kevin Senale	11/20/19	1240	1310	SL visit	All
Nal Peters	11/20/19	1240	1310	Site visit	All
Boyer Richter	11/20/19	1240	1310	Site visit	All

Appendix G

RVAAP-12 Load Line 12

**2019 Perimeter Fence Defect Call Outs Identified and
Repaired**

2019 CAMP JAMES A. GARFIELD PERIMETER FENCE CALLOUT/REPAIR SUMMARY TABLE
Load Line 12 2019 Annual Land Use Control Inspection

CALLOUT	DATE DISCOVERED	COMMENTS	REPAIR DATE (if reported)	Perimeter Fence Mile Marker	CALLOUT
SW48	7/11/2017	washout at culvert		0.40	SW48
SW49	7/12/2017	poacher hole	unknown	8.90	SW49
SW50	12/11/2018	Poacher hole	1/3/2019	4.00	SW50
SW51	12/12/2018	Poacher hole	1/3/2019	5.10	SW51
SW52	12/12/2018	Poacher hole	1/3/2019	5.11	SW52
SW53	12/12/2018	Poacher hole	1/3/2019	5.20	SW53
SW54	12/12/2018	Poacher hole	1/3/2019	5.40	SW54
SW55	12/13/2018	Poacher hole	1/3/2019	6.60	SW55
SW56	12/13/2018	Poacher hole	1/3/2019	6.70	SW56
SW57	12/13/2018	Poacher hole	1/3/2019	8.20	SW57
SW58	12/17/2018	Poacher hole	1/3/2019	8.60	SW58
SW59	12/18/2018	Poacher hole	1/3/2019	9.04	SW59
SW60	12/18/2018	Poacher hole	1/3/2019	9.60	SW60
SW61	12/26/2019	washout at culvert		0.60	SW61
SW62	12/26/2019	washout at culvert		0.80	SW62
SW63	12/26/2019	Poacher hole		1.10	SW63
SW64	12/26/2019	Poacher hole		2.80	SW64
SW65	12/26/2019	Poacher hole		3.25	SW65
SW66	12/27/2019	Poacher hole		4.45	SW66
SW67	12/27/2019	Poacher hole		4.8	SW67
SW67a	12/27/2019	Poacher hole		5.21	SW67a
SW68	12/27/2019	Poacher hole		5.98	SW68
SW69	12/27/2019	Poacher hole		7.2	SW69
SW70	12/27/2019	Poacher hole		9.25	SW70
NW22	12/20/2018	Poacher hole	1/3/2019	14.40	NW22
NW23	12/30/2019	Poacher hole		10.70	NW23
NE46	12/24/2018	Poacher hole	1/3/2019	18.40	NE46
NE47	12/26/2018	Poacher hole	1/3/2019	19.30	NE47
NE48	12/27/2018	tree blow down on fence	1/3/2019	19.90	NE48
NE49	12/28/2108	tree blow down on fence	1/3/2019	23.10	NE49
NE50	12/28/2018	tree blow down on fence	1/3/2019	23.10	NE50
NE51	12/28/2018	tree blow down on fence	1/3/2019	23.10	NE51
NE52	12/28/2018	beaver dam*		23.70	NE52
NE53	12/28/2018	tree blow down on fence		22.75	NE53
NE54	12/28/2018	tree blow down on fence		22.90	NE54
NE55	12/28/2018	tree blow down on fence		23.10	NE55
NE56	12/28/2018	Poacher hole		23.65	NE56
NE57	1/6/2020	fence removed for culvert repair		18.75	NE57
NE58	1/6/2020	Poacher hole		19.60	NE58
NE59	1/6/2020	Poacher hole		19.90	NE59
NE60	1/7/2020	tree blow down on fence		21.80	NE60
SE07	12/31/2018	washout at culvert		25.10	SE07

REPAIRED since previous fence inspection in December 2018

*Previous call-out that was repaired on 1/3/2019, damaged by beaver dam during 2019

Appendix H

2019 RVAAP-12 Load Line 12 Land Use Control Index and Call-out Detail Maps

LOAD LINE 12 (LL12) RVAAP-12 2019 ANNUAL LAND USE CONTROL (LUC) INSPECTION



FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

Legend

LUC Inspection of Perimeter Fence

- Opening in fence (2"±) and/or fabric missing/damaged (21 Locations)
- Repaired (21 Locations)
- Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order

— Perimeter Fence Evaluated (29.6 miles)



SEE ATTACHED SUMMARY TABLE AND DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



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US Army Corps of Engineers

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Louisville District



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Plane Rectangular Grid, North Zone

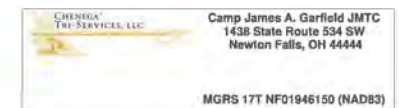
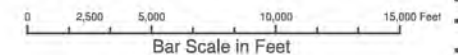


FIGURE 1 INDEX MAP

DETAIL SHEET FOR SE07



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO SE07 discovered 12/31/2018



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Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



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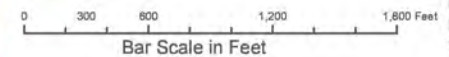
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Plane Rectangular Grid, North Zone

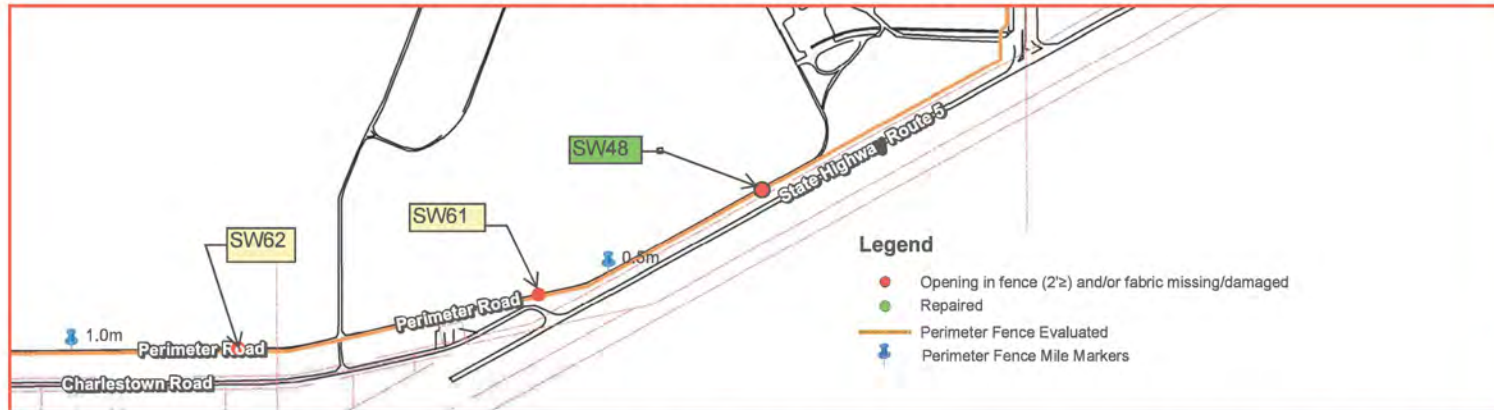


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE07

DETAIL SHEET FOR SW48



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

UPDATED PHOTO SW48 12/26/2019

PHOTO SW48 discovered 7/11/2017



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0 300 600 1,200 1,800 Feet
Bar Scale in Feet



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Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW48

DETAIL SHEET FOR SW50



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Repair photo taken 12/27/2019



PHOTO SW50 discovered 12/11/2018



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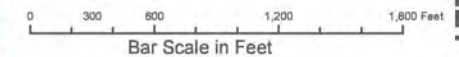
US Army Corps of Engineers

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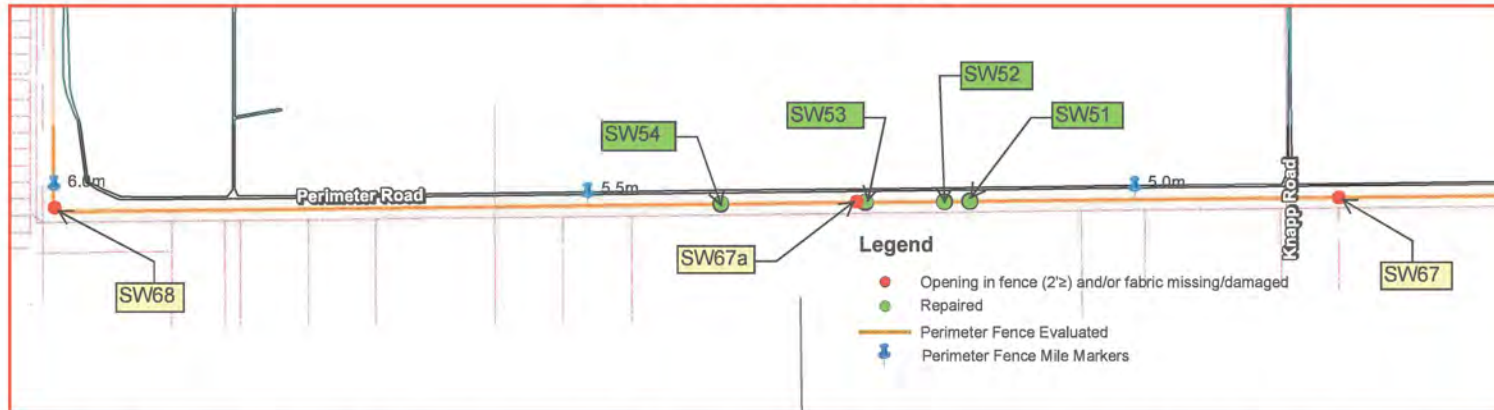


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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW50

DETAIL SHEET FOR SW51



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Repair photo taken 12/27/2019



PHOTO SW51 discovered 12/12/2018



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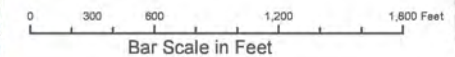


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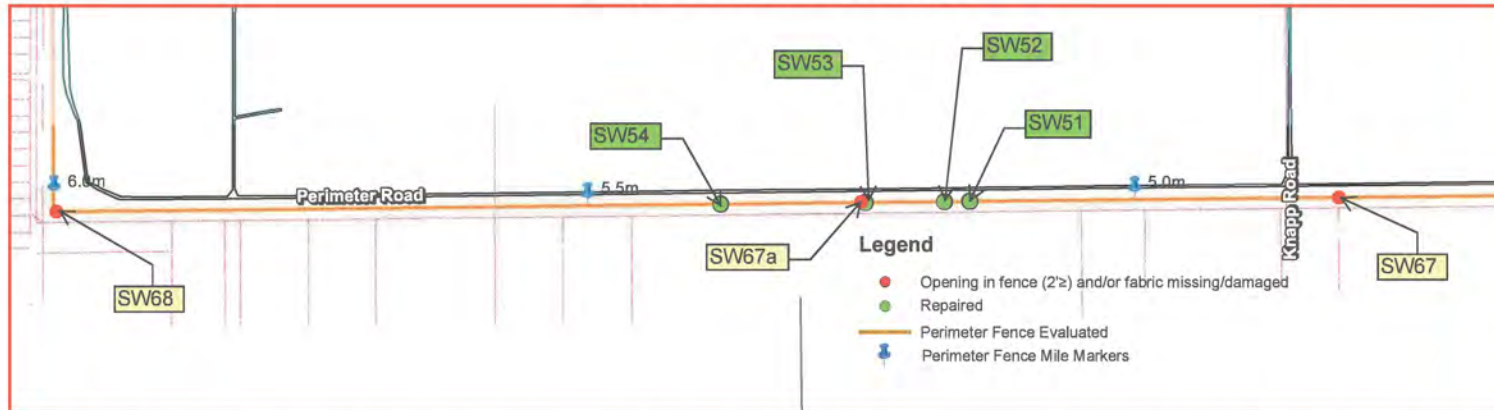


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW51

DETAIL SHEET FOR SW52



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Repair photo taken 12/27/2019



PHOTO SW52 discovered 12/12/2018



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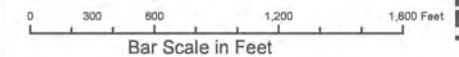
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Plane Rectangular Grid, North Zone

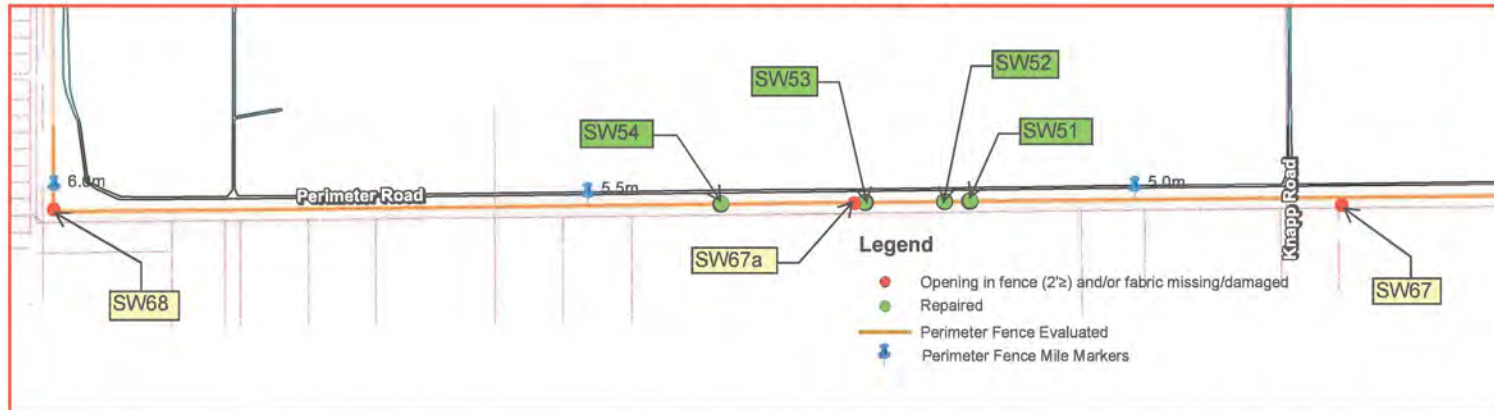


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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW52

DETAIL SHEET FOR SW53



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LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Repair photo taken 12/27/2019



PHOTO SW53 discovered 12/12/2018



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Bar Scale in Feet

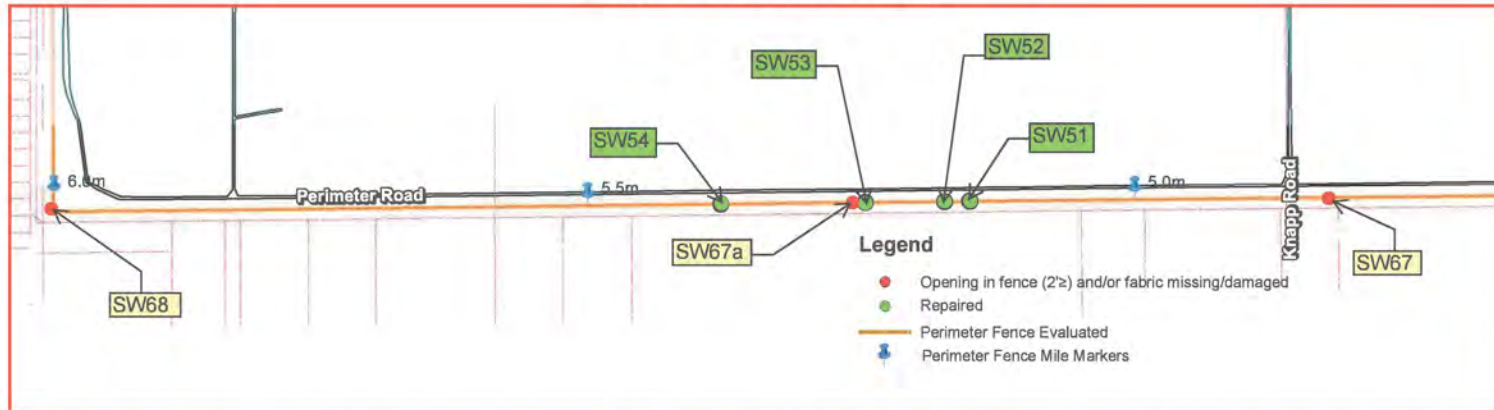


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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW53

DETAIL SHEET FOR SW54



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Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Repair photo taken 12/27/2019



PHOTO SW54 discovered 12/12/2018



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0 300 600 1,200 1,800 Feet
Bar Scale in Feet



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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW54

DETAIL SHEET FOR SW55



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Repair photo taken 1/03/2020



PHOTO SW55 discovered 12/13/2018



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Portage & Trumbull County
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Plane Rectangular Grid, North Zone

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Bar Scale in Feet

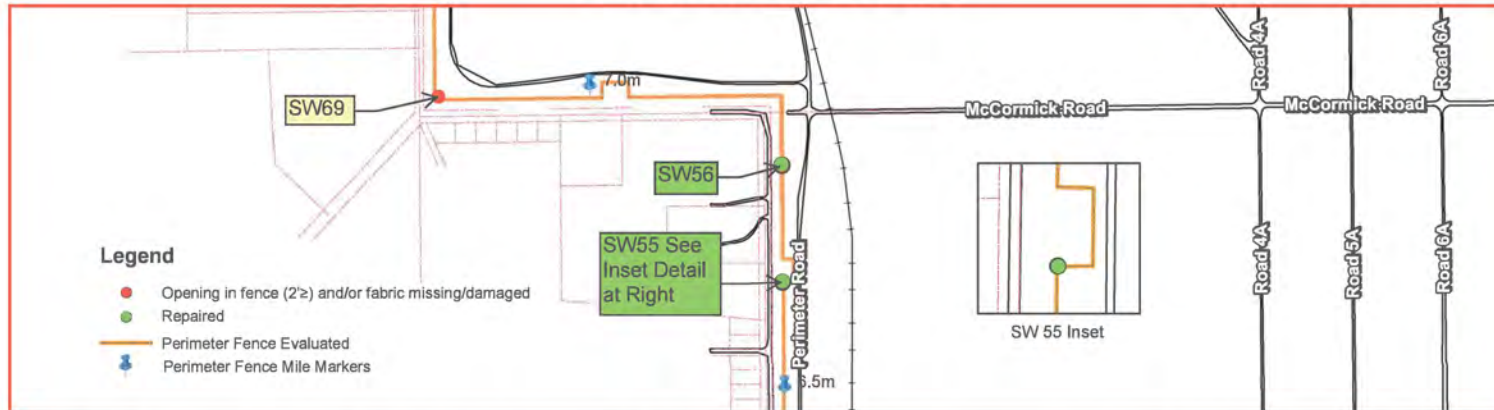


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW55

DETAIL SHEET FOR SW56



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Repair photo taken 1/03/2020



PHOTO SW56 discovered 12/13/2018



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0 300 600 1,200 1,800 Feet
Bar Scale in Feet



Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW56

DETAIL SHEET FOR SW57



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Repair photo taken 1/03/2020



PHOTO SW57 discovered 12/13/2018



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Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



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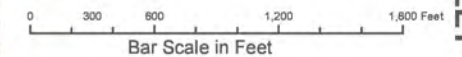
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Louisville District



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Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW57

DETAIL SHEET FOR SW58



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Repair photo taken 12/30/2019



PHOTO SW58 discovered 12/17/2018



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

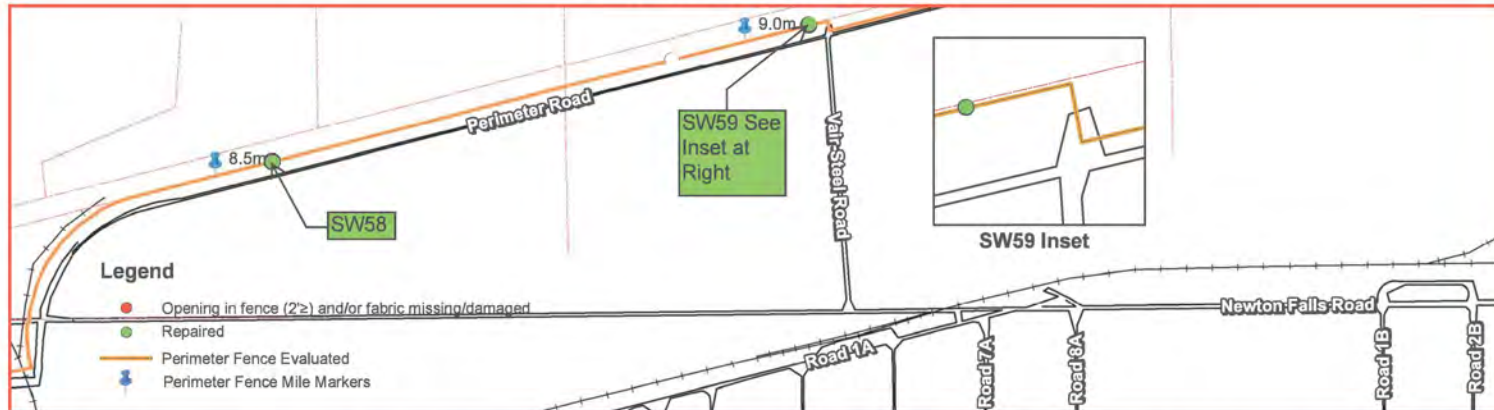


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW58

DETAIL SHEET FOR SW59



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Repair photo taken 12/30/2019



PHOTO SW59 discovered 12/18/2018



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



US Army Corps of Engineers
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

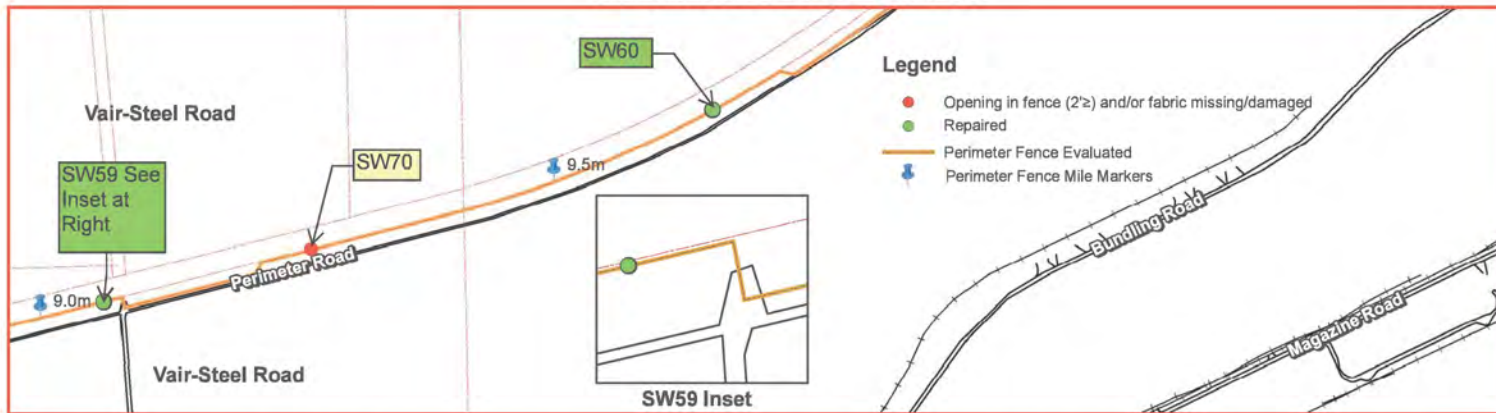


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW59

DETAIL SHEET FOR SW60



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Repair photo taken 12/30/2019



PHOTO SW60 discovered 12/18/2018



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

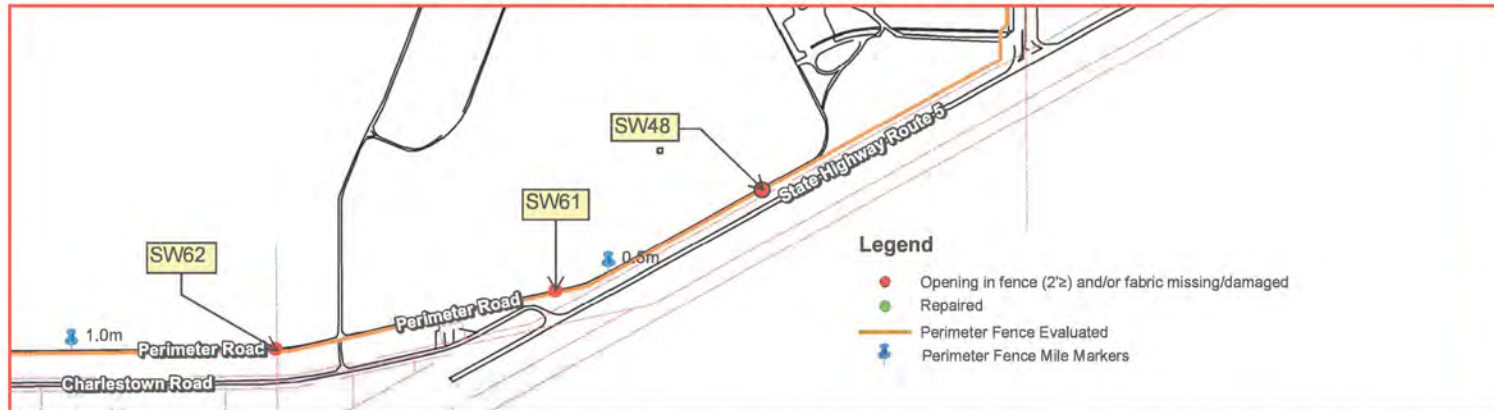


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW60

DETAIL SHEET FOR SW61



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO SW61 discovered 12/26/2019



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

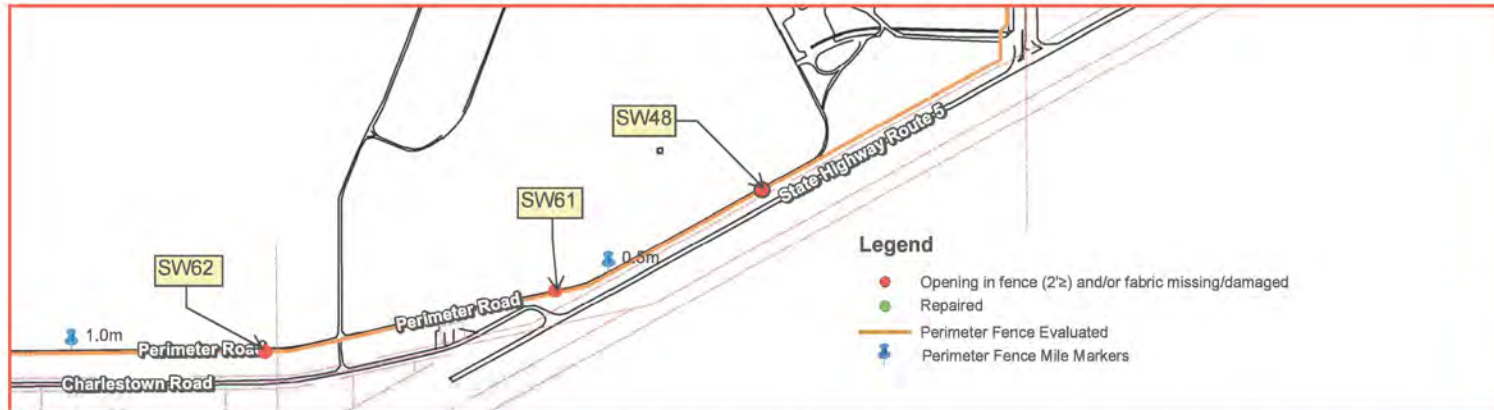


Camp James A. Garfield JMTTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW61

DETAIL SHEET FOR SW62



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO SW62 discovered 12/26/2019



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

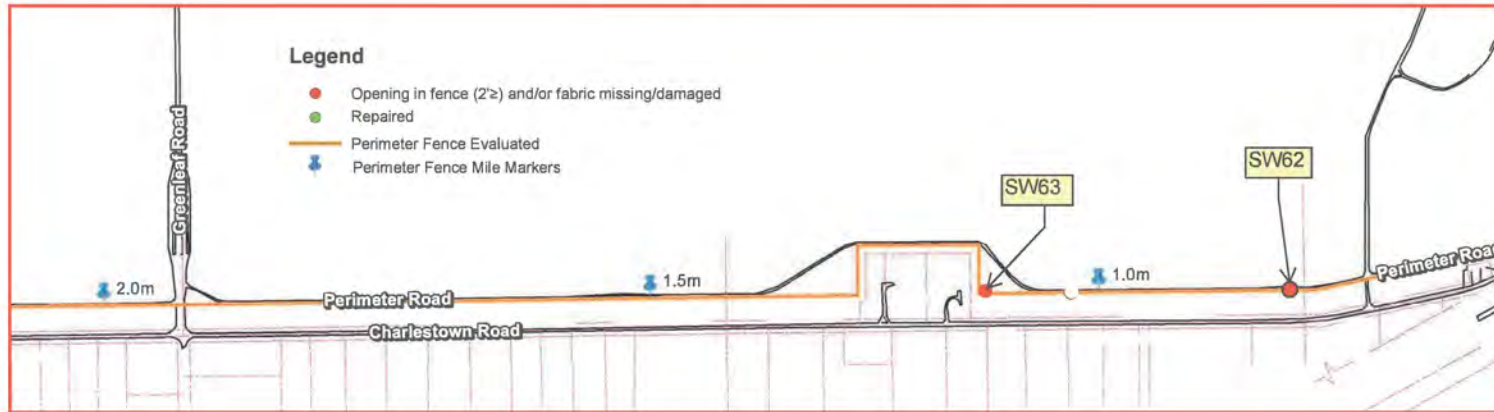


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW62

DETAIL SHEET FOR SW63

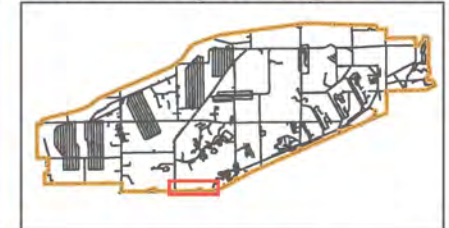


LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO SW63 discovered 12/26/2019



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



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US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet



Camp James A. Garfield JMTc
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW63

DETAIL SHEET FOR SW64



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Legend

- Opening in fence (2"x) and/or fabric missing/damaged
- Repaired
- Perimeter Fence Evaluated

PHOTO SW64 discovered 12/26/2019



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



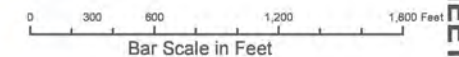
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW64

DETAIL SHEET FOR SW65



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Legend

- Opening in fence (2'±) and/or fabric missing/damaged
- Repaired
- Perimeter Fence Evaluated

PHOTO SW65 discovered 12/26/2019



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US Army Corps of Engineers

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Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet



Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW65

DETAIL SHEET FOR SW66



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO SW66 discovered 12/27/2019



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

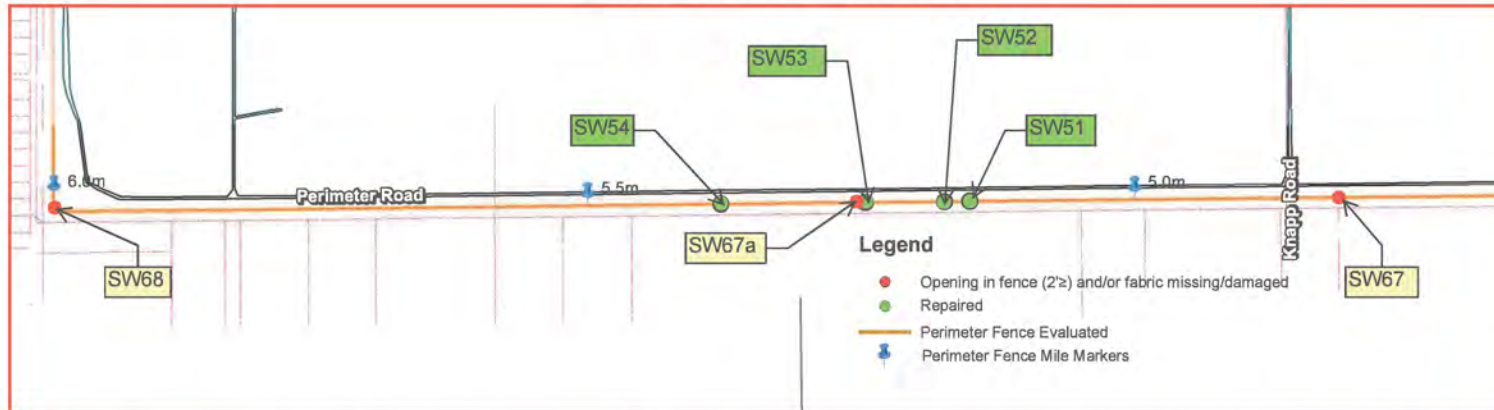


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW66

DETAIL SHEET FOR SW67



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO SW67 discovered 12/27/2019



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



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600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

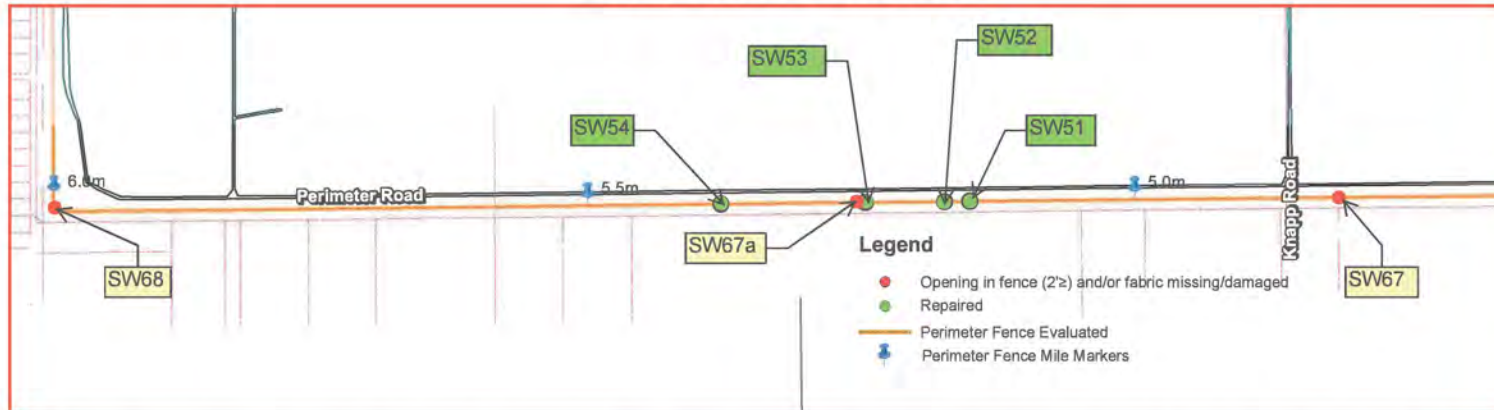


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW67

DETAIL SHEET FOR SW67a



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO SW67a discovered 12/27/2019



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



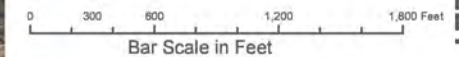
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

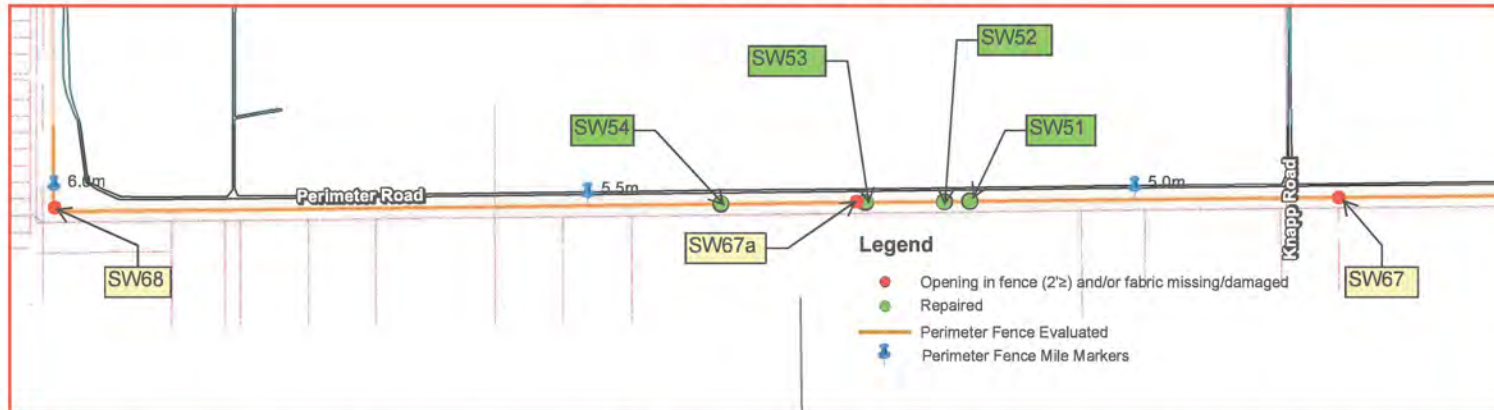


Camp James A. Garfield JMTc
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW67a

DETAIL SHEET FOR SW68



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO SW68 discovered 12/27/2019



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



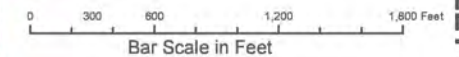
US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp James A. Garfield JMTc
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW68

DETAIL SHEET FOR SW69



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO SW69 discovered 12/27/2019



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

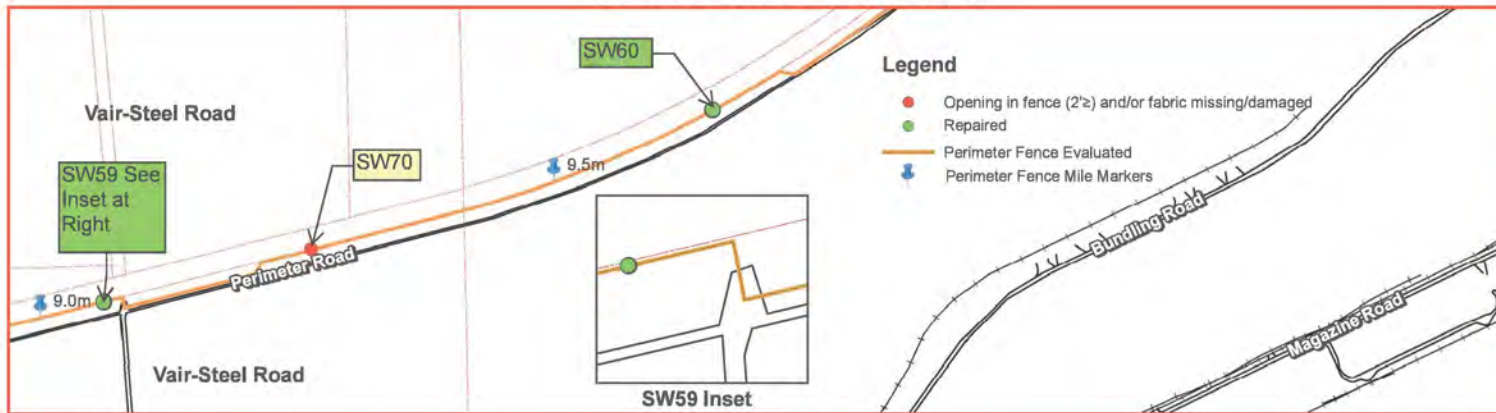


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW69

DETAIL SHEET FOR SW70



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO SW70 discovered 12/30/2019



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



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US Army Corps of Engineers
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

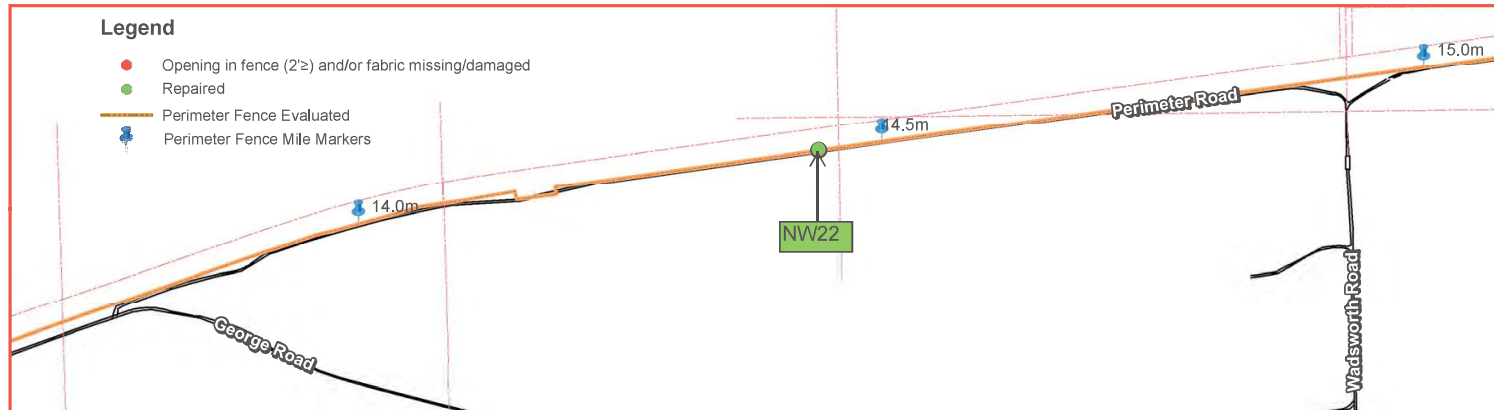


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW70

DETAIL SHEET FOR NW22



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

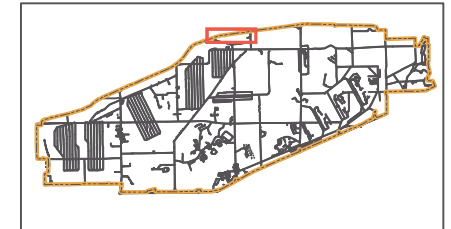
PHOTO NW22 taken 12/30/2019



PHOTO NW22 discovered 12/20/2018



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

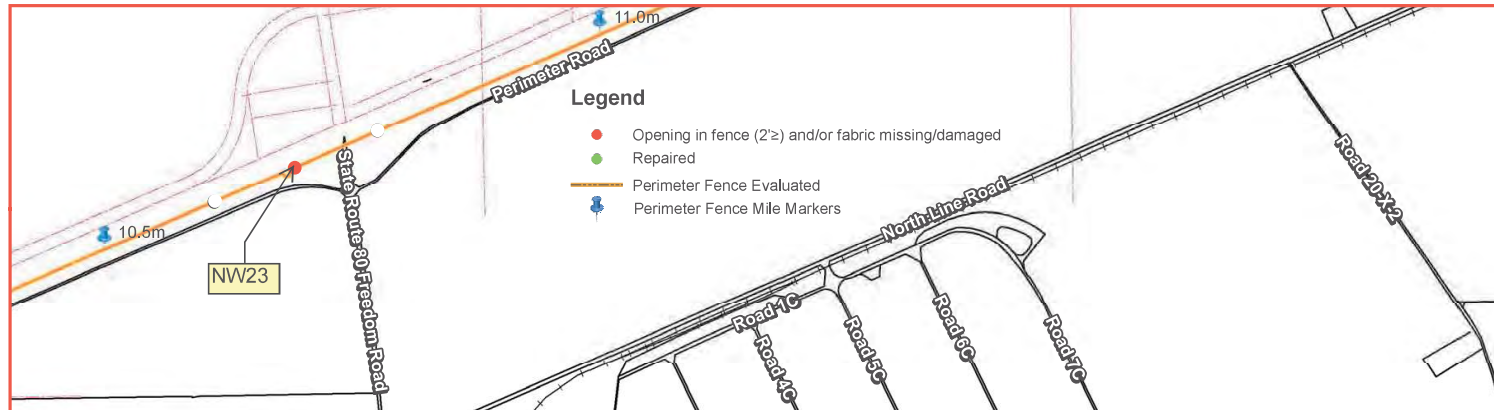


Camp James A. Garfield JMTTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW22

DETAIL SHEET FOR NW23

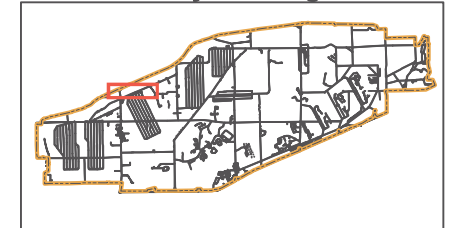


LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO NW23 discovered 12/30/2019



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County

LOCATOR MAP



Ohio Army National Guard



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US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

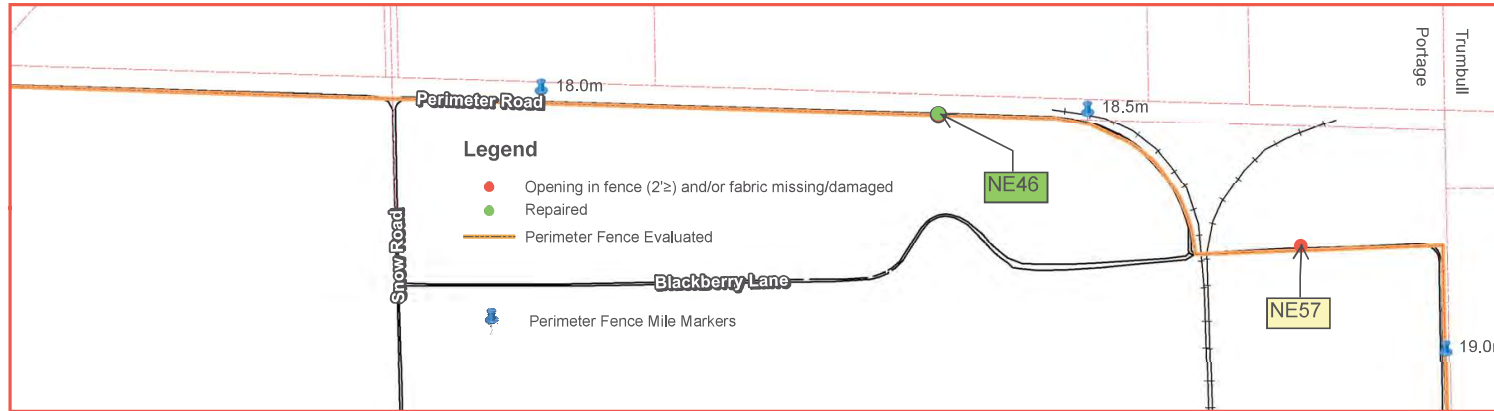


Camp James A. Garfield JMTc
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW23

DETAIL SHEET FOR NE46



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

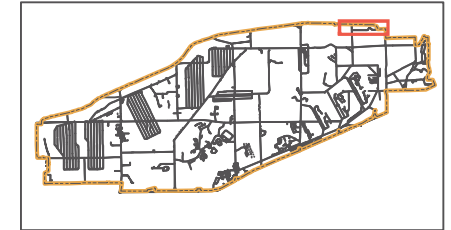
PHOTO NE46 taken 1/06/2020



PHOTO NE46 discovered 12/24/2018



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

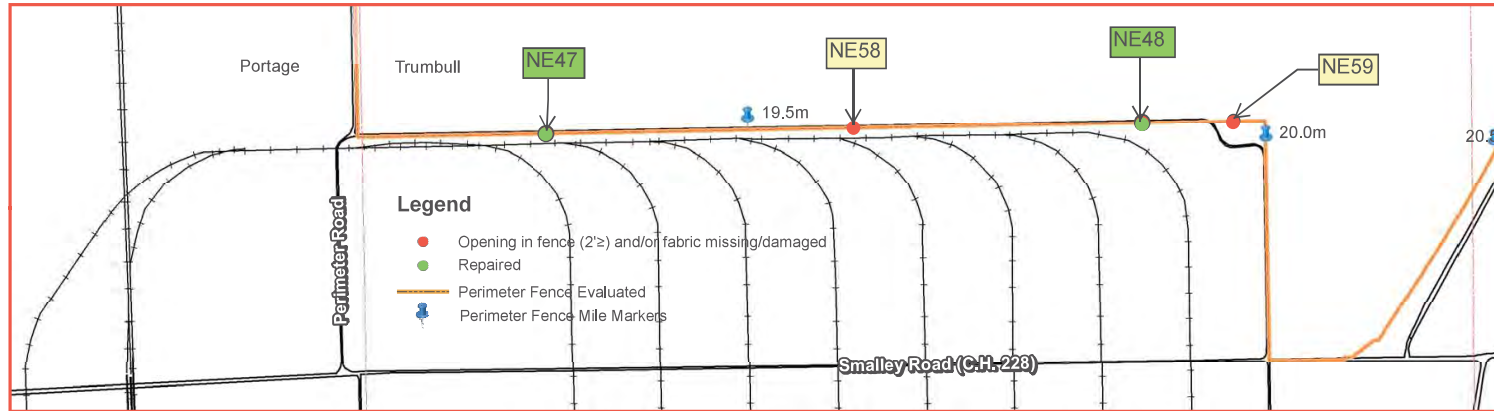


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE46

DETAIL SHEET FOR NE47



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

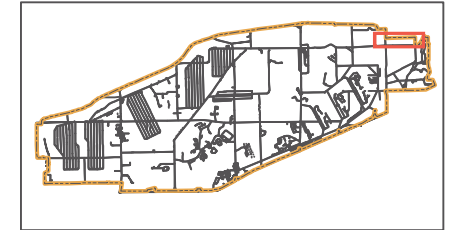
PHOTO NE47 taken 1/06/2020



PHOTO NE47 discovered 12/26/2018



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

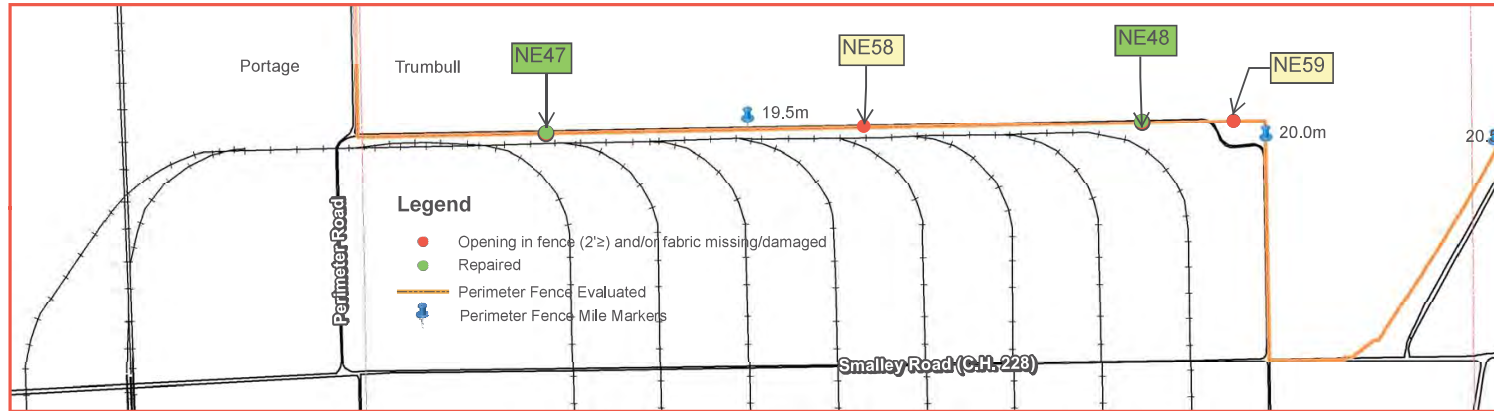


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE47

DETAIL SHEET FOR NE48



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

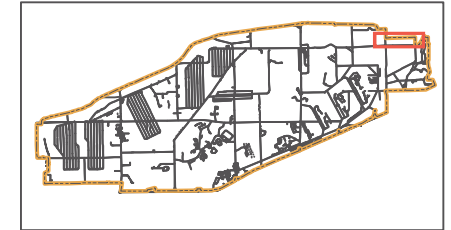
Repair photo taken 1/06/2020



PHOTO NE48 discovered 12/27/2018



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

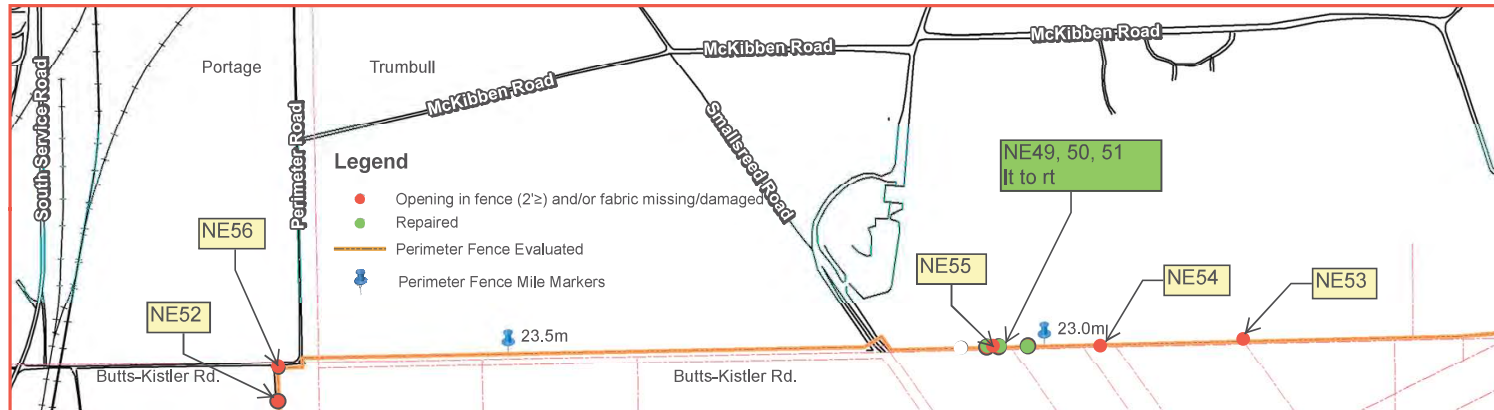


Camp James A. Garfield JMTTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE48

DETAIL SHEET FOR NE49



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

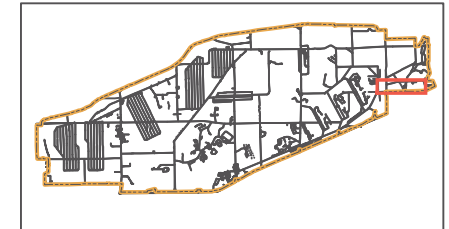
Repair photo taken 1/03/2020



PHOTO NE49 discovered 12/28/2018



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

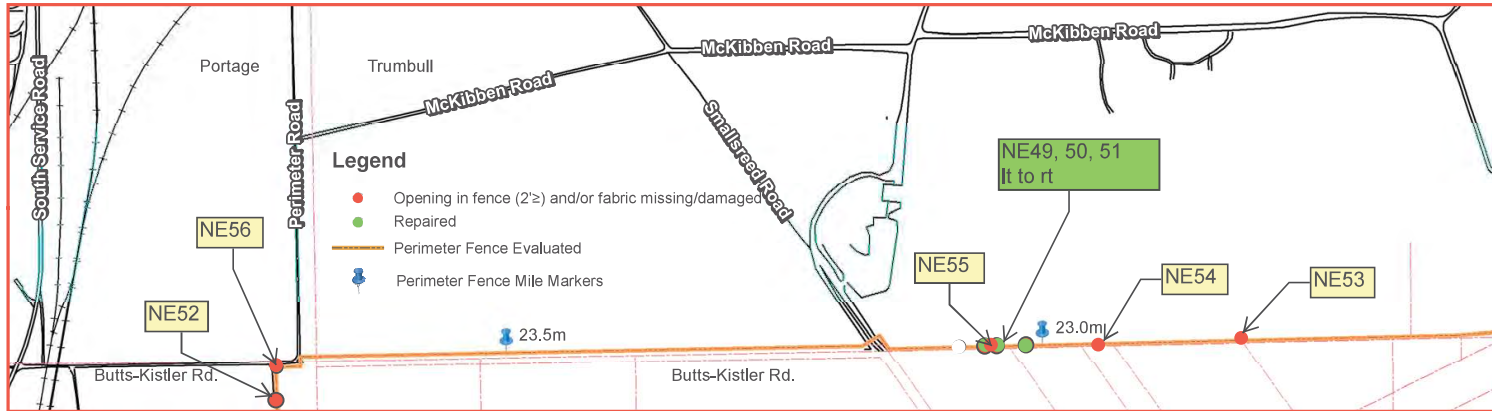


Camp James A. Garfield JMTc
1438 State Route 534 SW
Newton Falls, OH 44444

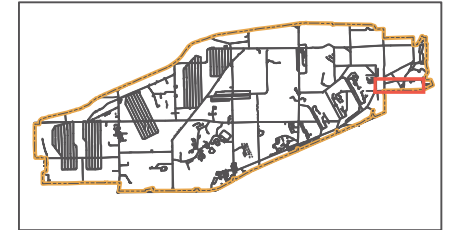
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE49

DETAIL SHEET FOR NE50



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Repair photo taken 1/03/2020



PHOTO NE50 discovered 12/28/2018



Produced in January 2020 for:



US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

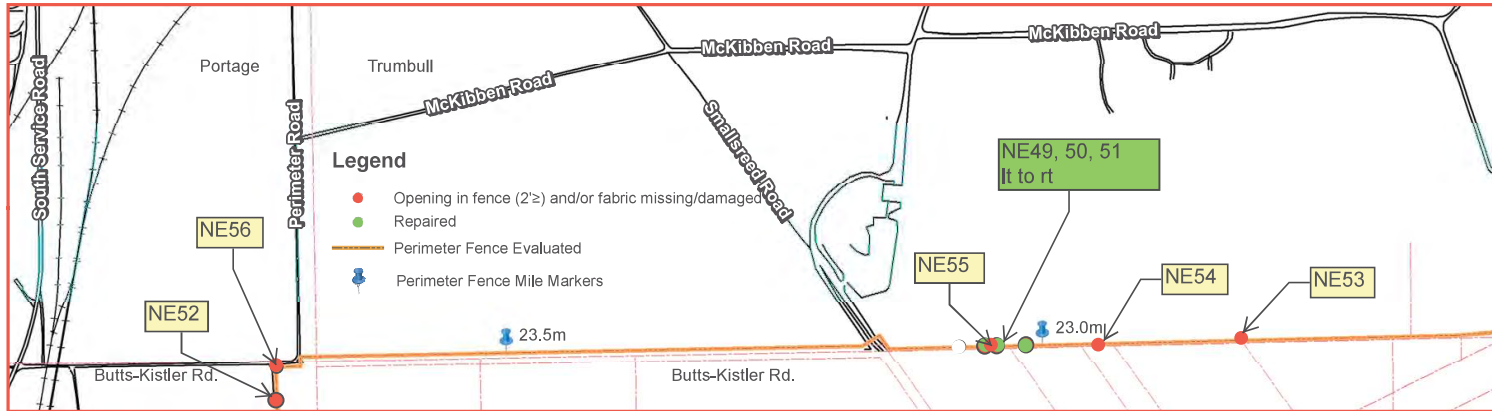


Camp James A. Garfield JMTc
1438 State Route 534 SW
Newton Falls, OH 44444

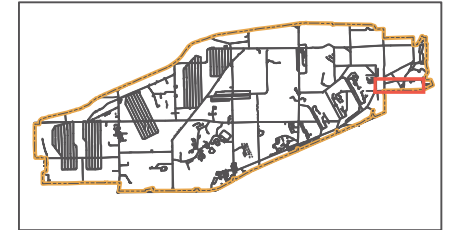
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE50

DETAIL SHEET FOR NE51



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

Repair photo taken 1/03/2020



PHOTO NE51 discovered 12/28/2018



Produced in January 2020 for:



US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

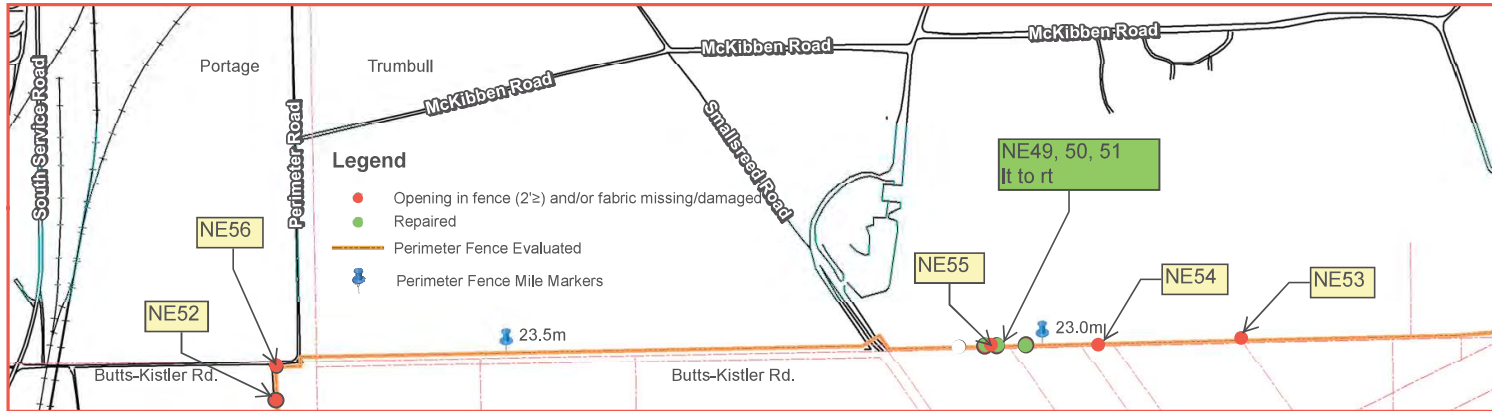
CHESSEA
TRI-SERVICES, LLC

Camp James A. Garfield JMTc
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE51

DETAIL SHEET FOR NE52

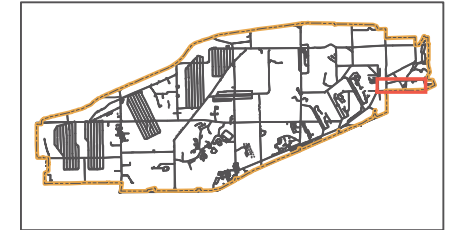


LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO NE52 discovered 1/03/2020



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



US Army Corps of Engineers
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

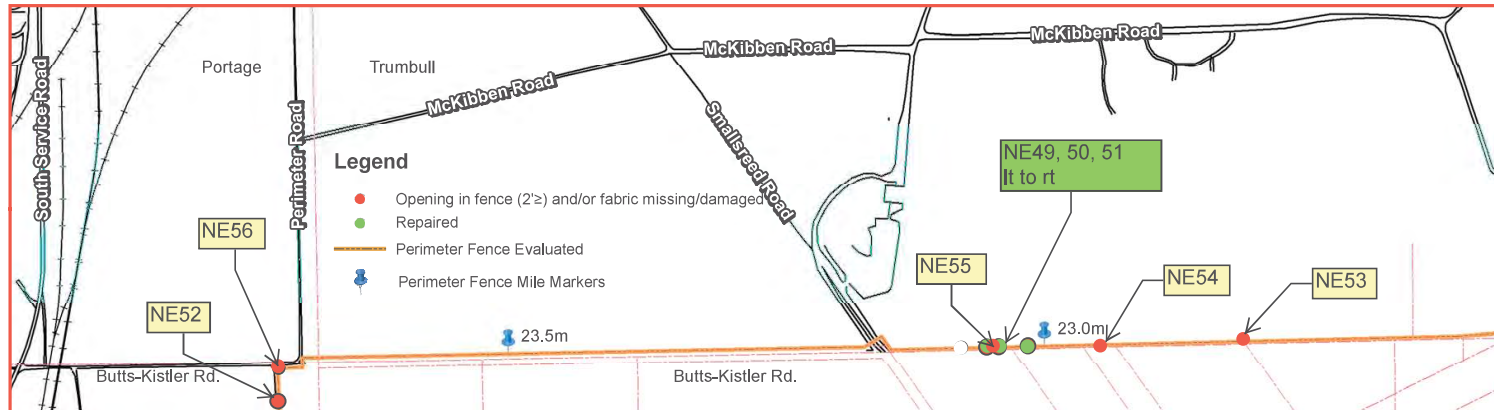


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE52

DETAIL SHEET FOR NE53

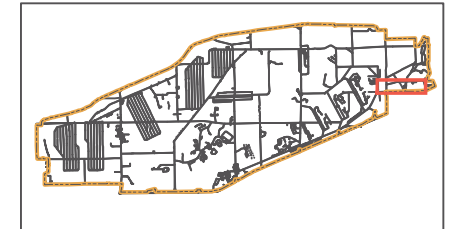


LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO NE53 discovered 1/03/2020



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



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600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

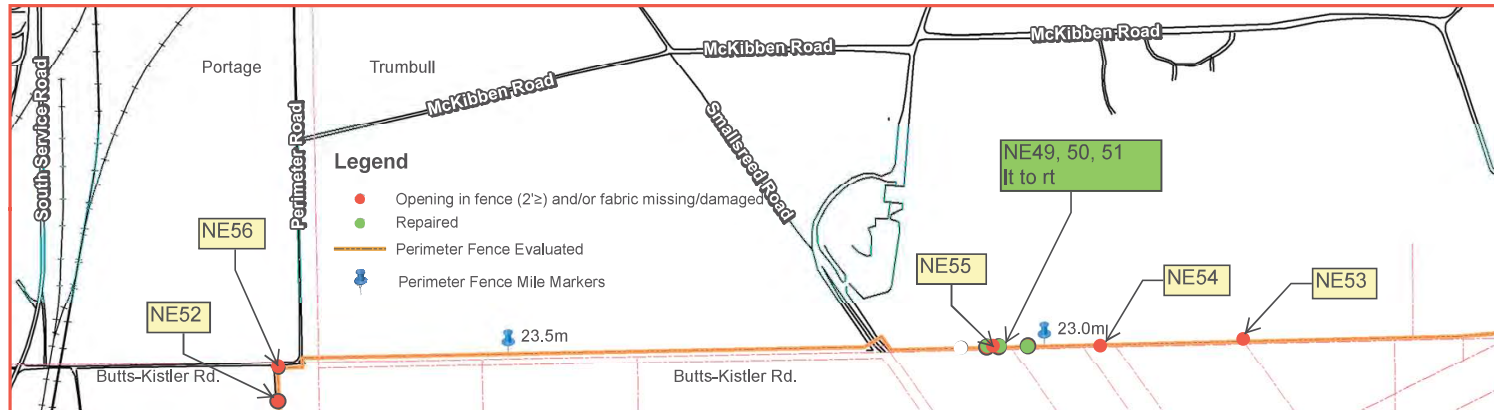


Camp James A. Garfield JMTC
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE53

DETAIL SHEET FOR NE54

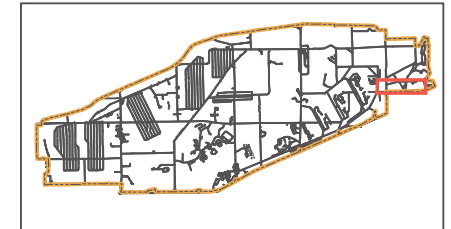


LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO NE54 discovered 1/03/2020



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



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Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

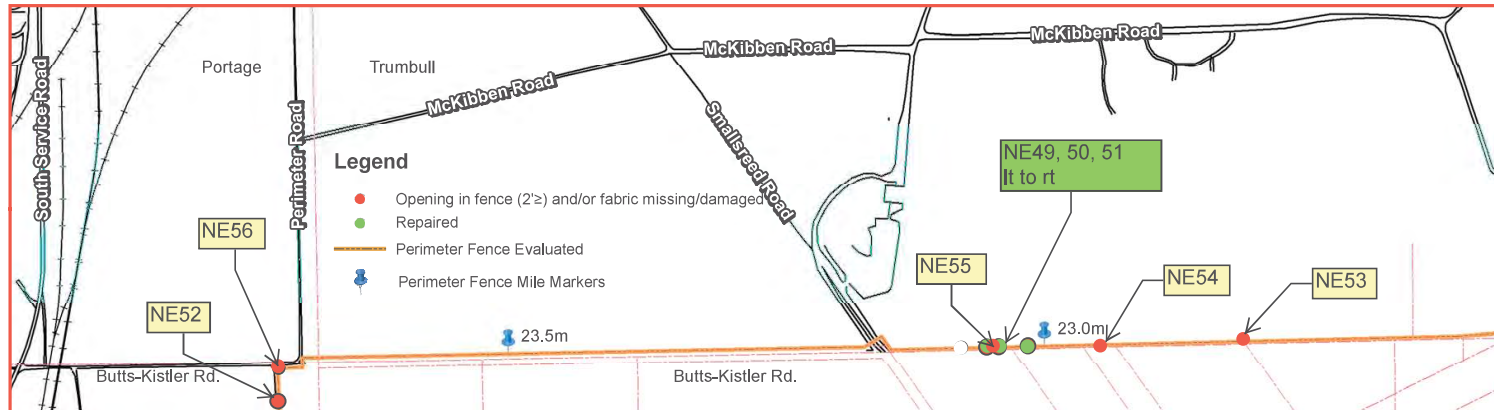


Camp James A. Garfield JMTc
1438 State Route 534 SW
Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE54

DETAIL SHEET FOR NE55

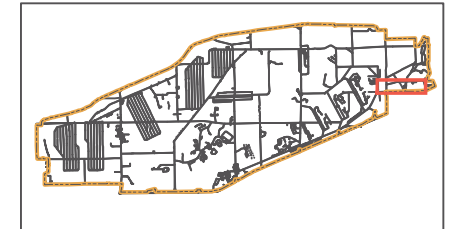


LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO NE55 discovered 1/03/2020



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in January 2020 for:



US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

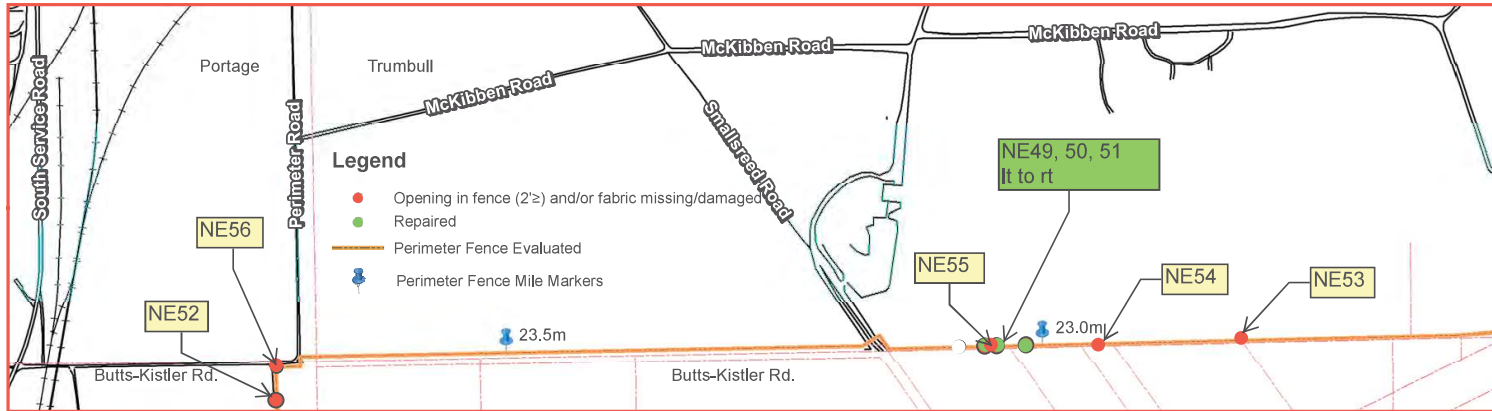


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Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE55

DETAIL SHEET FOR NE56

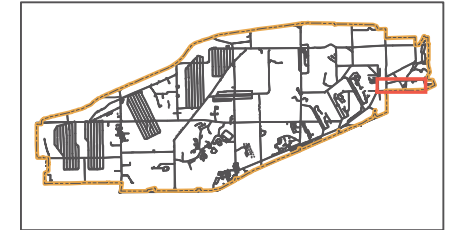


LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO NE56 discovered 1/03/2020



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Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



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Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

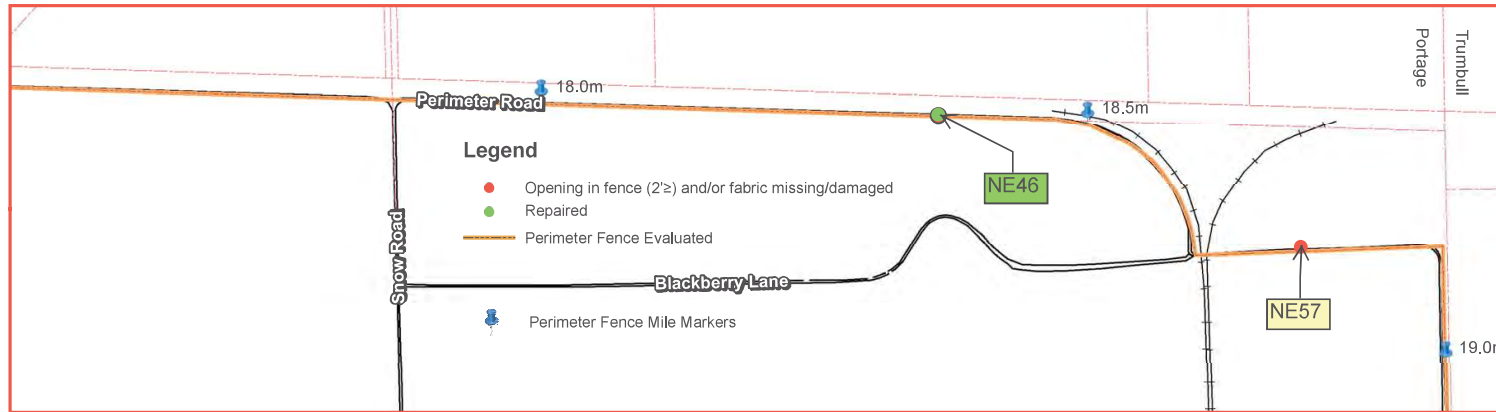


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Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE56

DETAIL SHEET FOR NE57

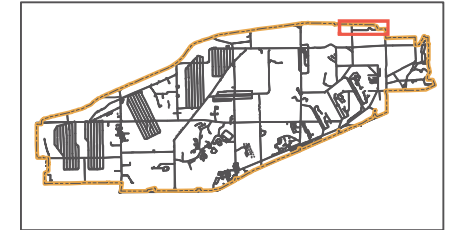


LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO NE57 discovered 01/06/2020



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Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



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Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

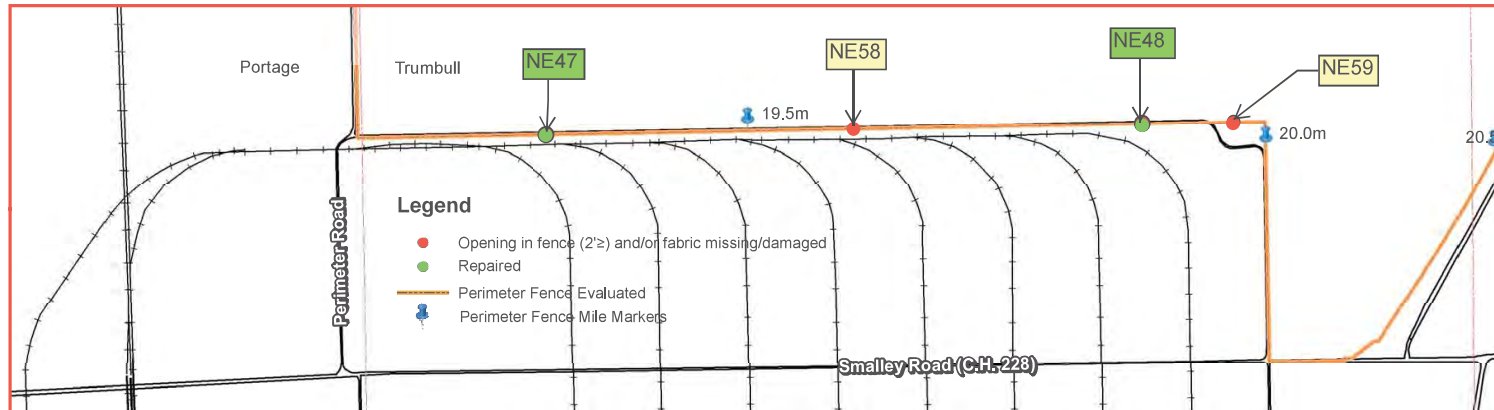
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Newton Falls, OH 44444

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE57

DETAIL SHEET FOR NE58

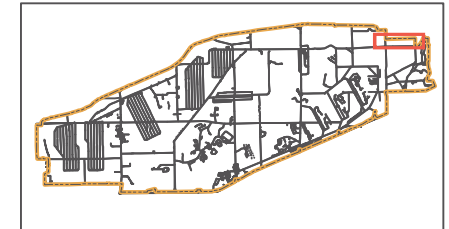


LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO NE58 discovered 01/06/2020



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Portage & Trumbull County
LOCATOR MAP



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Louisville District



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Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet

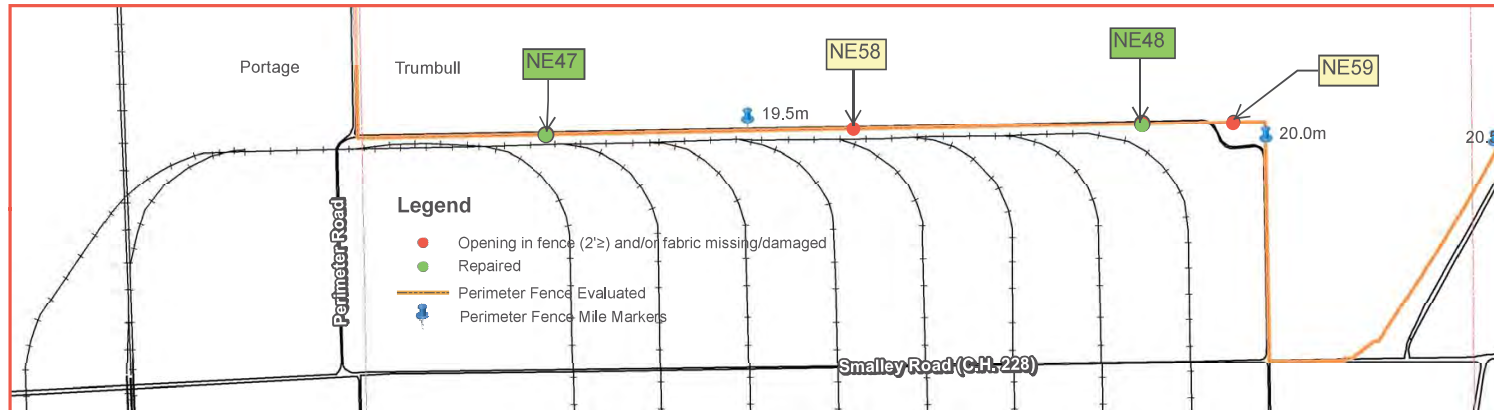


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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE58

DETAIL SHEET FOR NE59

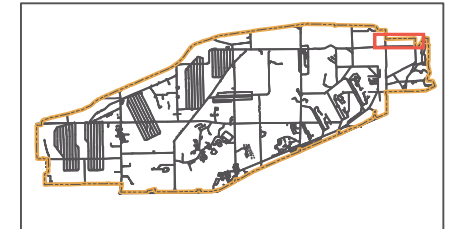


LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO NE59 discovered 01/06/2020



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Portage & Trumbull County LOCATOR MAP



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Plane Rectangular Grid, North Zone

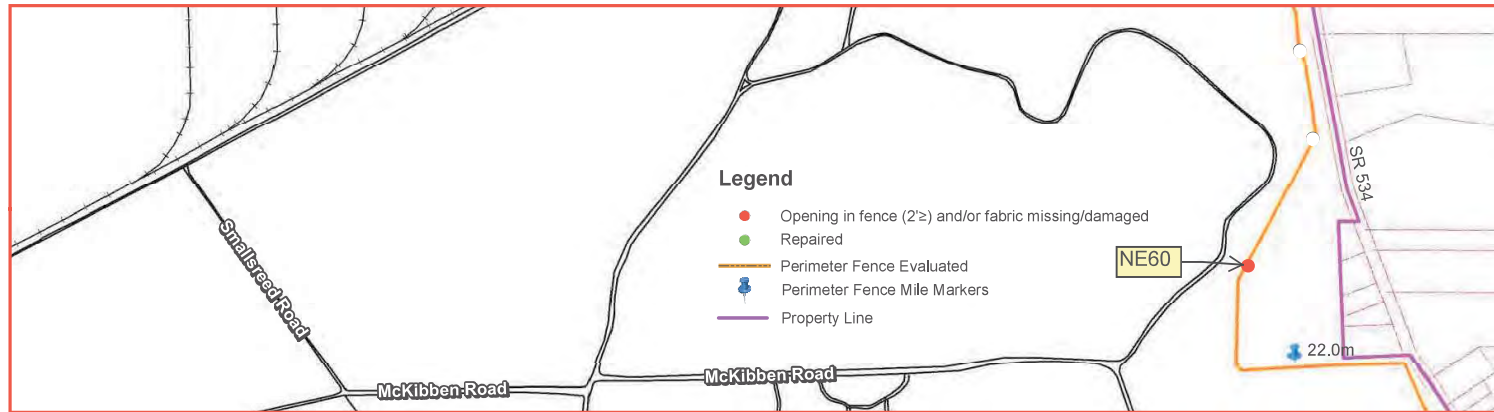


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MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE59

DETAIL SHEET FOR NE60

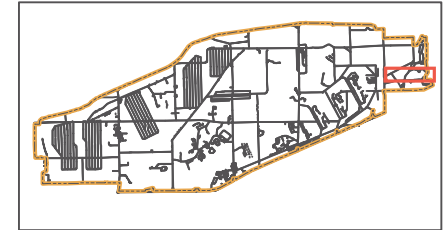


LAND USE CONTROL (LUC) 2019 ANNUAL PERIMETER FENCE INSPECTION

PHOTO NE60 discovered 01/07/2020



Camp James A. Garfield Joint Military Training Center



Portage & Trumbull County

LOCATOR MAP



Ohio Army National Guard



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Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



DETAIL SHEET FOR NE60

Appendix I

2019 RVAAP-51 Dump Along Paris-Windham Road

Photographs



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



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

2019 RVAAP-51 Dump Along Paris-Windham Road photographs



RVAAP-51, Land Use Control area delineated by signs along Paris-Windham Road, looking south.



RVAAP-51, Land Use Control area delineated by signs along Paris-Windham Road, looking southeast from northwest portion of the site.