

**Final After Action Report
Surface Clearance for MEC
RVAAP-060-R-01 Block D Igloo
Munitions Response Site**

Former Ravenna Army Ammunition Plant, OH

Prepared by

**Environmental and Munitions Design Center
Baltimore District
U.S. Army Corps of Engineers**

May 19, 2021

REPORT DOCUMENTATION PAGE					<i>Form Approved</i> <i>OMB No. 0704-0188</i>							
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6. AUTHOR(S) Travis R. McCoun, PG Program Manager Baltimore District MMDC				5d. PROJECT NUMBER NA								
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7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Army Corps of Engineers, Baltimore, District 10 South Howard Street Baltimore, MD 21201					8. PERFORMING ORGANIZATION REPORT NUMBER NA							
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13. SUPPLEMENTARY NOTES None												
14. ABSTRACT This After Action Report summarizes the results of the work completed for the Surface Clearance for MEC at the Block D Igloo (RVAAP-060-R-01) Munitions Response Site (MRS), located at the Former Ravenna Army Ammunition Plant (RVAAP), now known as Camp James A. Garfield (CJAG) in Portage and Trumbull counties, Ohio. This Surface Clearance was conducted at the Block D Igloo MRS to reduce explosive hazards posed by MEC and Material Presenting a Potential Explosive Hazard (MPPEH). Specifically, this action was taken to remove MEC/MPPEH that may present on the surface due to past military activities. The scope of this removal action is to conduct a surface clearance for MEC/MPPEH to support safe forestry activities and access at the site.												
15. SUBJECT TERMS Surface Clearance, Block D Igloo MRS, (RVAAP-060-R-01), Munitions and Explosives of Concern, Unexploded Ordnance, Material Potentially Posing an Explosive Hazard												
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19a. NAME OF RESPONSIBLE PERSON Travis McCoun					19b. TELEPHONE NUMBER (Include area code) 410-962-6728							



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

June 10, 2021

TRANSMITTED ELECTRONICALLY

Mr. Kevin M. Sedlak
Army National Guard
Installations & Environment
Cleanup Branch IPA Designation
1438 State Route 534 SW
Newton Falls, OH 44444

RE: US Army Ravenna Ammunition Plt RVAAP
Remediation Response
Project Records
Remedial Response
Portage County
ID # 267000859241

Subject: Review of the Final After Action Report, Surface Clearance for MEC, Block D Igloo (RVAAP-060-R-01) Munitions Response Site, Former Ravenna Army Ammunition Plant, Portage/Trumbull Counties, Ohio, dated May 19, 2021

Dear Mr. Sedlak:

The Ohio Environmental Protection Agency (Ohio EPA), Northeast District Office (NEDO), Division of Environmental Response and Revitalization (DERR) has received and reviewed the "Final After Action Report, Surface Clearance for MEC, Block D Igloo (RVAAP-060-R-01) Munitions Response Site, Former Ravenna Army Ammunition Plant, Portage/Trumbull Counties, Ohio," dated May 19, 2021.

After reviewing the document, Ohio EPA concurs with findings of the Final After Action Report.

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

Sincerely,

Nicholas Roope
Site Coordinator
Division of Environmental Response and Revitalization

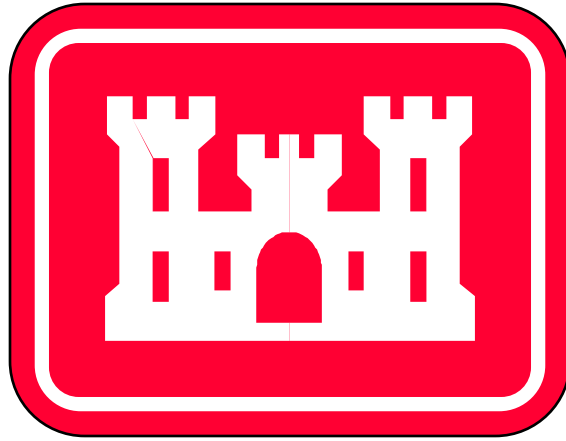
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ec: Rebecca Shreffler, Chenega
Bob Princic, Ohio EPA, NEDO, DERR
Natalie Oryshkewych, Ohio EPA, NEDO, DERR
Thomas Schneider, Ohio EPA, SWDO, DERR
Katie Tait, OHARNG RTLS, CJAG
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**Final After Action Report
Surface Clearance for MEC
RVAAP-060-R-01 Block D Igloo
Munitions Response Site**

Former Ravenna Army Ammunition Plant, OH

Prepared by

**Environmental and Munitions Design Center
Baltimore District
U.S. Army Corps of Engineers**

May 19, 2021

DOCUMENT DISTRIBUTION

Final After Action Report Surface Clearance for MEC RVAAP-060-R-01 Block D Igloo Munitions Response Site

Name/Organization	Number of Printed Copies	Number of Electronic Copies
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Kathryn Tait, OHARNG – Camp James A. Garfield	<i>Email transmittal letter only</i>	
Mark Leeper, ARNG	<i>Email transmittal letter only</i>	
Travis McCoun, USACE – Baltimore District	0	1
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Jennifer Tierney - AR Manager, Camp James A. Garfield	2	1

AR = Administrative Record

ARNG = Army National Guard

ARNG-I&E = Army National Guard – Installations & Environmental

OHARNG = Ohio Army National Guard

OEPA-NEDO = Ohio Environmental Protection Agency-Northeast District Office

USACE = U.S. Army Corps of Engineers, Technical Manager

STATEMENT OF TECHNICAL REVIEW

PN: 453698

NAME OF PROJECT: After Action Report, Surface Clearance for MEC, Block D Igloo MRS (RVAAP-060-R-01), Preliminary Draft

LOCATION: Former Ravenna Army Ammunition Plant, OH

PROJECT MANAGER: Travis McCoun

DOCUMENT/DELIVERABLE: After Action Report, Surface Clearance for MEC, Block D Igloo MRS, Preliminary Draft

An independent technical review (ITR) that is appropriate to the level of risk and complexity inherent in the project has been conducted as defined in the Project Management Plan. During the ITR, compliance with established policy, principles, and procedures, utilizing justified and valid assumptions, was verified. This included review of: assumptions; methods, procedures, and material used in analyses; alternatives evaluated; the appropriateness of data used and level obtained; and reasonableness of the result, including whether the product meets the stakeholders' needs consistent with law and existing USACE policy. The signatures of each of the disciplines below affirm that the ITR was accomplished and all comments resulting from ITR have been resolved.

TECHNICAL DISCIPLINE	REVIEWER	SIGNATURE
Explosive Safety	Marty Holmes	HOLMES.MARTY.A LAN.1017090972 <small>Digitally signed by HOLMES.MARTY.ALAN.10170909 72 Date: 2021.02.10 17:00:01 -05'00'</small>
Explosive Safety	Albert Whittington	WHITTINGTON.ALB ERT.J.1163137425 <small>Digitally signed by WHITTINGTON.ALBERT.J.116313 7425 Date: 2021.02.11 17:24:21 -05'00'</small>
Munitions Response	Wayne Davis	DAVIS.WAYNE.F.12 89107378 <small>Digitally signed by DAVIS.WAYNE.F.1289107378 Date: 2021.02.10 09:43:53 -05'00'</small>

CERTIFICATION OF INDEPENDENT TECHNICAL REVIEW

As noted above, all concerns resulting from independent technical review of the project have been fully resolved.

TECHNICAL TEAM LEAD

Travis R. McCoun, P.G.
Program Manager, NAB MMDC

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Date: 2021.02.12 08:19:07 -05'00'

CERTIFICATION OF INDEPENDENT TECHNICAL REVIEW/DATE

CHIEF, EMDC

Michael J. Rogers, P.E., PMP
Chief, Environmental & Munitions
Design Center USACE Baltimore District


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CERTIFICATION OF INDEPENDENT TECHNICAL REVIEW/DATE

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ACRONYMS AND ABBREVIATIONS

AAR	After Action Report
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CY	Cubic Yards
DoD	Department of Defense
ESS	Explosives Safety Submission
FY	Fiscal Year
HQAES	Headquarters Army Environmental System
lb	pound
MDAS	Material Documented as Safe
MDEH	Material Documented as an Explosive Hazard
MEC	Munitions And Explosives Of Concern
MPPEH	Material Presenting a Potential Explosive Hazard
MRS	Munitions Response Site
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
OESS	Ordnance and Explosive Safety Specialist
RVAAP-060-R-01	Block D Igloo Site
U.S.	United States
USACE	U.S. Army Corps of Engineers

1.0 PURPOSE

The purpose of this After Action Report (AAR) is to summarize the results of the Munitions and Explosives of Concern (MEC) surface clearance conducted by the United States (U.S.) Army Corps of Engineers (USACE) at the Block D Igloo Munitions Response Site (MRS) (RVAAP-060-R-01), Former Ravenna Army Ammunition Plant, Ohio. The Headquarters Army Environmental System (HQAES) Number for this site is 39747.1062.

This Surface Clearance was conducted at the Block D Igloo MRS to reduce explosive hazards posed by MEC and Material Presenting a Potential Explosive Hazard (MPPEH). Specifically, this action was taken to remove MEC/MPPEH that may present on the surface due to past military activities.

This clearance was conducted under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); the National Oil and Hazardous Substances Pollution Contingency Plan (NCP); applicable state and federal regulations; and all applicable Department of Defense (DoD) and U.S. Army policies and procedures. All work was conducted in accordance with the approved Explosives Safety Submission (ESS), dated May 2020.

2.0 SCOPE

The Block D Igloo Site (**Figure 1**) is 101.6 acres and extends from the location of the former Igloo 7-D-15 to the east toward the "E" Block igloos, a distance of nearly 2,500 feet. In 1943, an accidental detonation of 2,516 clusters of M-41 20-pound (lb) fragmentation bombs occurred, releasing MEC/MPPEH at the site. The Army conducted a cleanup effort after the detonation, but the potential exists for MEC/MPPEH to remain in the surface/subsurface.

A timber harvest is planned for the Block D Igloo MRS in fiscal year (FY) 2021. The scope of this removal action is to conduct a surface clearance for MEC/MPPEH to support safe forestry activities and access at the site.

Two separate mobilizations were required to complete this scope of work. The following summarizes work completed during each mobilization:

17 August 2020 - 06 November 2020. This work included mobilization and set up, brush cutting, and surface sweep activities in 488 grids, and inspecting MPPEH and disposing all Material Documented as Safe (MDAS).

04 January 2021 – 22 January 2021. This work included removing large pieces of reinforced concrete from 13 grids (K07, L04, L05, N04, N06, N09, O08, O09, O10, Q04, S06, S07, and U08) and clearing the underlying footprint.

3.0 WORK PERFORMED

This section summarizes tasks completed as part of the surface clearance for MEC/MPPEH at the Block D Igloo MRS. Fieldwork activities and recovered items are documented in weekly reports included as **Appendix A**. Grid sheets are included in **Appendix B**.

Ordnance and Explosive Safety Specialist (OESS) personnel conducted a magnetometer-assisted surface sweep of the work area. The purpose of the surface sweep was to remove potential explosive hazards that may exist on the surface. This work was conducted to prepare for future timber harvest and clearing and grubbing activities.

No MEC/MPPEH was recovered from the Block D Igloo MRS, only MDAS and cultural debris. Grid sheets documenting surface clearance activities and recoveries can be found in **Appendix C**.

4.0 FINDINGS

OESS personnel conducted surface clearance activities in 488, 100-foot by 100-foot grids. MDAS was recovered in 89 of 488 grids (**Figure 2**). MEC/MPPEH was not recovered from the site. Subsurface anomaly densities were estimated based on observations made in the field during surface clearance activities, as follows: low (0-50 anomalies), medium (50-100 anomalies), or high (>100 anomalies) (**Figure 3**). A total of 407 lb of MDAS and 23 lb of cultural debris were recovered. MPPEH was not recovered during the surface clearance. All metal was certified as MDAS and transferred to a local recycling facility: Metalico Youngstown, Inc. A copy of the Form 1348 and manifests are included in **Appendix C**.

In addition, OESS personnel removed large pieces of reinforced concrete from 13 grids: K07, L04, L05, N04, N06, N09, O08, O09, O10, Q04, S06, S07, and U08. After removal, a surface clearance was conducted on the underlying footprint. Two grids (L17 and L19) contained large concrete culverts that were too heavy to move, so they were left in place. Approximately 40 cubic yards (CY) of material was recovered, inspected, and disposed offsite as solid waste at the Cuyahoga Regional Landfill. A copy of the manifests are included in **Appendix C**.

5.0 SUMMARY

USACE personnel completed a surface clearance for MEC/MPPEH at the Block D Igloo MRS (RVAAP-060-R-01). A total of 101.6 acres were cleared for MEC/MPPEH. Recoveries included 407 lb of MDAS, 23 lb of cultural debris, and approximately 40 CY of reinforced concrete. MEC/MPPEH was not recovered. All MDAS was certified as being free of an explosive safety hazard and documented on a Form 1348. All metal was transferred to a local recycling facility for destruction.



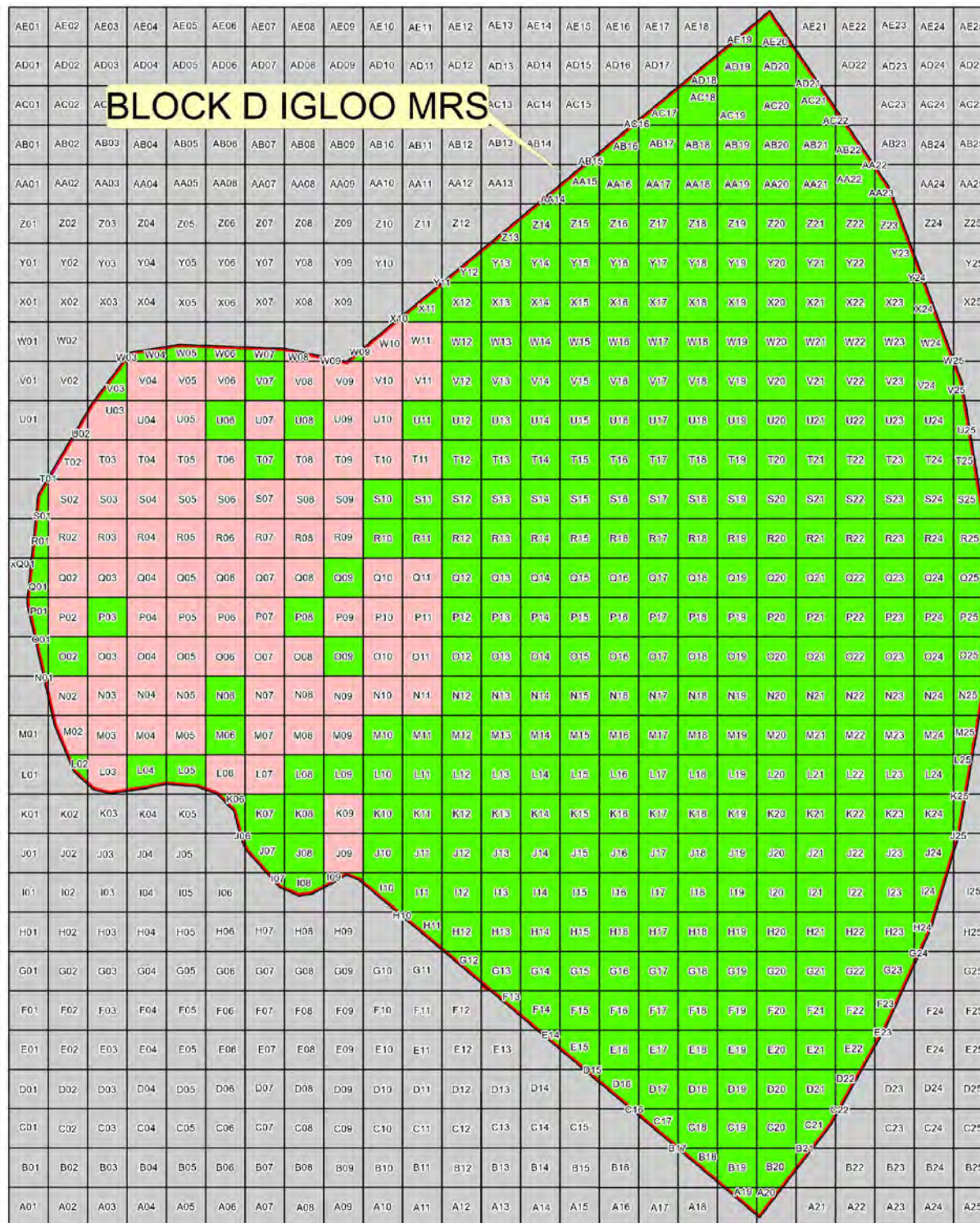
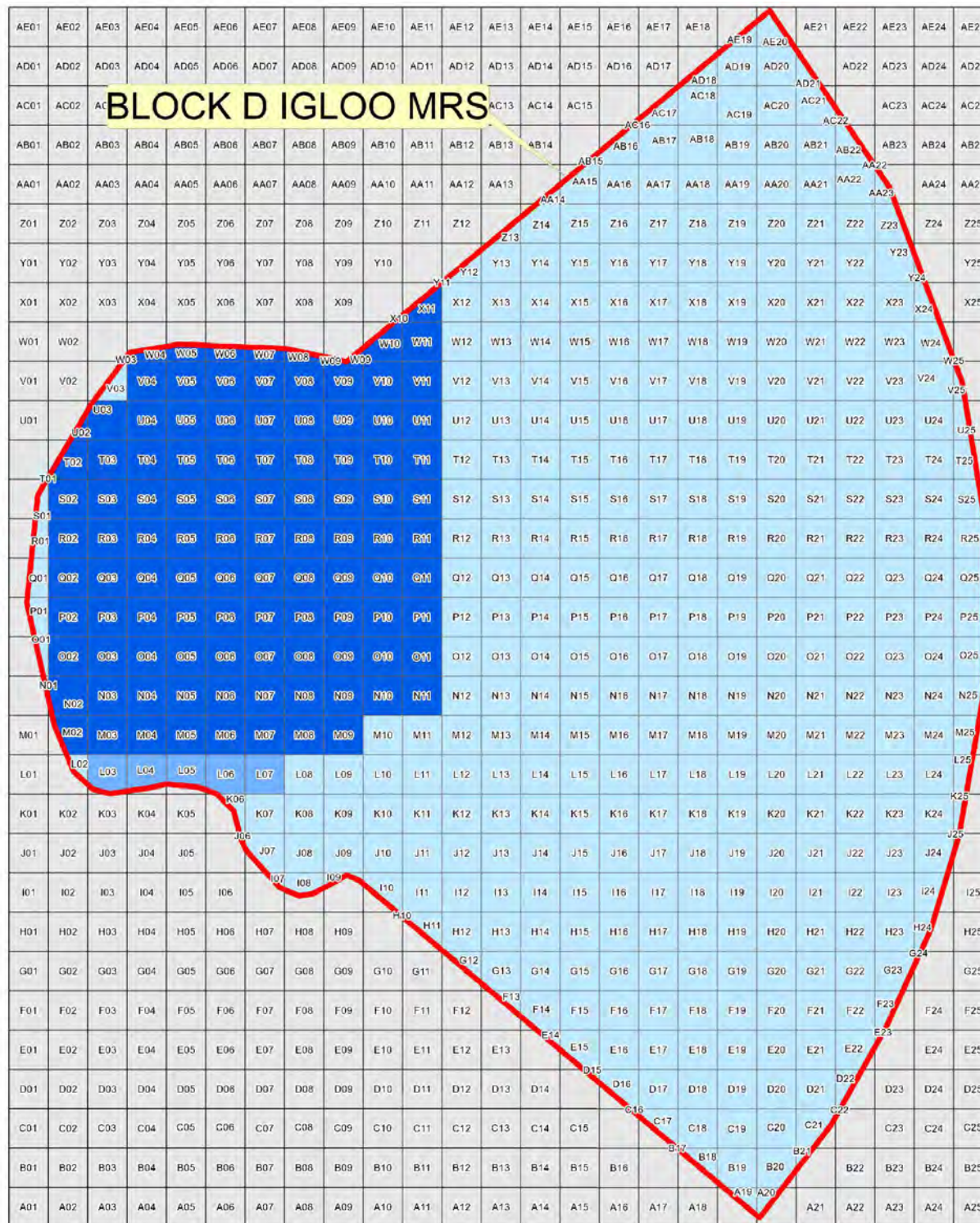


Figure 2
Block D Igloo MRS (RVAAP-060-R-01)
Surface Clearance Results



Legend
 Subsurface Anomaly Density
 Low (0-10)
 Medium (10-20)
 High (20-30)
 No Data
 Block D Igloo MRS Boundary



Figure 3
 Block D Igloo MRS (RVAAP-060-R-01)
 Estimated Subsurface Anomaly Densities

APPENDIX A: WEEKLY REPORTS

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #
USACE Block D-1

Project Number:
W912DR-15-D-0022

DATE:
17-21 August 2020

Team Personnel:

Site Supervisor: John Day

QC/Safety: Dan Dorrell

Team Members:

Goals:

- Site mobilization, work plan/safety plan review, site set up, equipment rental, and establish site boundaries.

Tasks completed:

- Site mobilization and set up.
- Met with Range Control, verified that our schedule was acceptable, and verified that all personnel were properly cleared for access.
- Work plan/safety plan sent to all personnel, and reviewed by all.
- Clint Verelle, and Myles West transported equipment from Baltimore.
- Skid Steer rented, but the one brought to the site was not compatible with the mowing deck. Another machine will be brought Monday.
- Dan Dorrell escorted Tim Morgan and a representative from the LRD office to mark the boundary of the tree cutting area
- Site boundaries were verified and marked.
- Obtained earth covered magazine 3-E-1 for the storage of MDAS. This will also be our base of operations for the duration of the project.

Comments:

BEM:

Other work performed:

Comments:

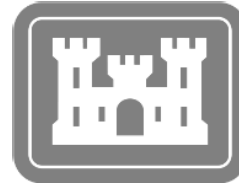
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John L. Day

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Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #
USACE Block D-2

Project Number:
W912DR-15-D-0022

DATE:
24-28 August 2020

Team Personnel:

Site Supervisor: John Day

QC/Safety: Myles West

Team Members: Dan Dorrell, Shawn Meek, James Ennis, Clint Verelle.

Goals:

- Site mobilization, work plan/safety plan review, site set up, equipment rental, and establish site boundaries.

Tasks completed:

- West, Verelle, Ennis, and Meek Mobilized to the site.
- Sunbelt dropped off the skid steer Monday morning upon delivery it was noted that the machine did not have a door, Sunbelt was notified and the door was brought the following morning.
- Work plan/safety plan sent to all personnel, and reviewed by all.
- Mowing begun Tuesday, and continued throughout the week
- Began grid stake emplacement.
- Began sweeping in grid V08.
- V08 sweeping was delayed due to having to recover the mower from being stuck in the mud.
- Magazine inventory completed. All accounted for and secure.

Comments:

BEM: Replacement tarp on site, will be replaced when demo ops are conducted.

Other work performed:

Comments:

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John L. Day

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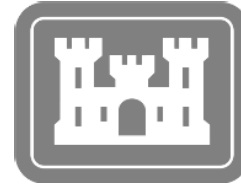
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Skid steer stuck.

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #

USACE Block D-3

Project Number:

W912DR-15-D-0022

DATE:

31 Aug-4 Sep 2020

Team Personnel:

Site Supervisor: John Day

QC/Safety: Myles West

Team Members: Dan Dorrell, Shawn Meek, James Ennis, Clint Verelle.

Goals:

- Brush cutting, and grid surface sweeps.

Tasks completed:

- Brush cutting continued.
- Surface sweeps completed in grids: R10, R11, S10, S11, T02-T11, U02-U11, V03-V11, W04-W11, and X-11.
- Due to complications with the existing mower deck a new mower has been ordered from Sunbelt. This will be delivered Tuesday.
- Monday 7 September, the site will be shut down in observance of Labor Day.
- Weights, MDAS: 55lbs, MPPEH: 0lbs

Comments:

BEM:

Other work performed:

Comments:

PREPARED BY:

John L. Day

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Marking grid corners



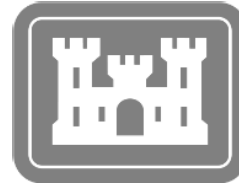
Instrument assisted surface sweep. (Grid stakes and orange ribbon used as lane markers)



Frag bomb frag sleeves recovered.

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #

USACE Block D-4

Project Number:

W912DR-15-D-0022

DATE:

8-11 Sep 2020

Team Personnel:

Site Supervisor: John Day

QC/Safety: Myles West

Team Members: Dan Dorrell, Shawn Meek, James Ennis, Clint Verelle.

Goals:

- Brush cutting, and grid surface sweeps.

Tasks completed:

- Brush cutting continued.
- Surface sweeps completed in grids: R01-R09, and S01-S09.
- Due to complications with the existing mower deck a new mower has been ordered from Sunbelt. This was delivered Tuesday, at which time it was found that the fittings were leaking, and a mechanic had to be scheduled to come out to repair the machine.
- Monday 7 September, the site was shut down in observance of Labor Day.
- Weights, MDAS: 100lbs, MPPEH: 0lbs

Comments:

BEM:

Other work performed:

Comments:

PREPARED BY:

John L. Day

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Heading back to continue mowing after the maintenance was completed.



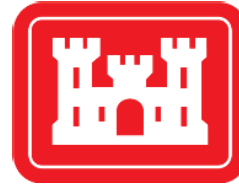
Mag assisted surface sweeps.



Marking the sweep lane as they are finished.

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #

USACE Block D-5

Project Number:

W912DR-15-D-0022

DATE:

14-18 Sep 2020

Team Personnel:

Site Supervisor: John Day

QC/Safety: Myles West

Team Members: Dan Dorrell, Shawn Meek, James Ennis, Clint Verelle.

Goals:

- Brush cutting, and grid surface sweeps.

Tasks completed:

- Brush cutting continued.
- Surface sweeps completed in grids: Q01-Q-11, P01-P11, O01-O11, N01-N11, M02-M07, and L02-L07.
- Due to complications with the rented mower deck mowing did not continue throughout the week, the problem has been resolved and mowing will continue Monday.
- Weights, MDAS: 229lbs, MPPEH: 0lbs

Comments:

BEM:

Other work performed:

Comments:

PREPARED BY:

John L. Day

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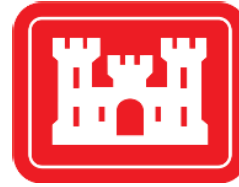
Sweeping the grid



Sweeping the grid

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #
USACE Block D-6

Project Number:
W912DR-15-D-0022

DATE:
21-25 Sep 2020

Team Personnel:

Site Supervisor: John Day

QC/Safety: Myles West

Team Members: Dan Dorrell, Shawn Meek, James Ennis, Clint Verelle.

Goals:

- Brush cutting, and grid surface sweeps.

Tasks completed:

- Brush cutting continued.
- Surface sweeps completed in grids: I08, I09, J06-J09, K06-K09, L08, L08, M08, M09, T12-T17, U12-U17, V12-V17, W12-W17, X12-X17, Y12-Y17, Z13-Z17, AA14-AA17, AB15-AB17, and AC17
- Since crossing Smalley Road, the anomaly count both surface and subsurface has dropped drastically.
- Weights, MDAS: 20lbs, MPPEH: 0lbs

Comments:

BEM:

Other work performed:

Comments:

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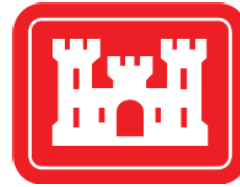
Sweeping the grid



Sweeping the grid

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #
USACE Block D-7

Project Number:
W912DR-15-D-0022

DATE:
28 Sep-2 Oct 2020

Team Personnel:

Site Supervisor: John Day

QC/Safety: Myles West

Team Members: Dan Dorrell, Shawn Meek, James Ennis, Clint Verelle.

Goals:

- Brush cutting, and grid surface sweeps.

Tasks completed:

- Brush cutting continued.
- Surface sweeps completed in grids: C17, D15-D17, E14-E17, F13-F17, G12, G17, H11-H17, I10-I17, J10, J11, K10, K11, N12-N17, O12-O17, P12-P17, and Q12-Q17.
- Weights, MDAS: 10lbs, MPPEH: 0lbs

Comments:

BEM:

Other work performed: BEM inspection, and Explosive inventory.

Comments: Completed, all secure and accounted for.

PREPARED BY:

John L. Day

SIGNATURE:

DAY.JOHN.LAWRENCE.102048
3110

Digitally signed by
DAY.JOHN.LAWRENCE.1020483110
Date: 2021.04.20 10:11:52 -04'00'



Mowing igloo area.



Mowing igloo area.

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #
USACE Block D-8

Project Number:
W912DR-15-D-0022

DATE:
5-9 Oct 2020

Team Personnel:

Site Supervisor: John Day

QC/Safety: Dan Dorrell

Team Members: Shawn Meek, James Ennis.

Goals:

- Brush cutting, and grid surface sweeps.

Tasks completed:

- Brush cutting completed, mower deck taken off rent.
- Surface sweeps completed in grids: M10-M17, L10-L17, K12-K19, J12-J19, I18- I21, H18-H21, G18-C21, F18, F2, E18-E21, D18-D21, C18, C19, B18, B19, and A19.
- Weights, MDAS: 10lbs, MPPEH: 0lbs

Comments: Due to having technical difficulties pictures will be in upcoming weeklies.

BEM:

Other work performed:

Comments:

PREPARED BY:

John L. Day

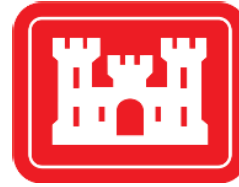
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DAY.JOHN.LAWRENCE.1020483
110

Digitally signed by
DAY.JOHN.LAWRENCE.1020483110
Date: 2021.04.20 10:25:15 -04'00'

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #

USACE Block D-9

Project Number:

W912DR-15-D-0022

DATE:

13-16 October 2020

Team Personnel:

Site Supervisor: John Day

QC/Safety: Dan Dorrell

Team Members: , Shawn Meek, James Ennis.

Goals:

- Surface sweeps.

Tasks completed:

- Surface sweeps completed in grids: A20, B20, B21, C20, C21, D20, D21, D22, E20, E21, E22-F23, G22-G24, H22-H24, I22-I24, J22-J25, K22-K25, L18, L19, M18, M19, N18, N19, O18, O19, P18, P19, Q18, Q19, R18, R19, S18, and S19.
- Weights, MDAS: 0lbs, MPPEH: 0lbs, CD 5lbs

Comments:

BEM:

Other work performed:

Comments:

PREPARED BY:

John L. Day

SIGNATURE:

DAY.JOHN.LAWRENCE.102048
3110

Digitally signed by
DAY.JOHN.LAWRENCE.1020483110
Date: 2021.04.20 10:50:36 -04'00'



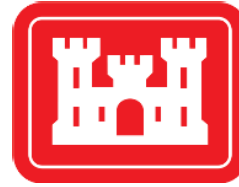
Sweeping around an igloo



Instrument assisted surface sweep.

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #

USACE Block D-10

Project Number:

W912DR-15-D-0022

DATE:

19-23 October 2020

Team Personnel:

Site Supervisor: John Day

QC/Safety: Dan Dorrell

Team Members: , Shawn Meek, James Ennis, and Lowell(JR) Martin.

Goals:

- Surface sweeps.

Tasks completed:

- Surface sweeps completed in grids: L20-L25, M20-M25, N20-N25, O20-O25, P20-P25, Q20-Q25, R20-R25, S20-S25, T18, T19, U18, U19, V18, V19, W18, W19, X18, X19, Y18, and Y19 .
- Weights, MDAS: 0lbs, MPPEH: 0lbs, CD 8lbs

Comments: Explosive magazine inventory completed 10-20-2020 all secure and accounted for.

BEM:

Other work performed:

Comments:

PREPARED BY:

John L. Day

SIGNATURE:

DAY.JOHN.LAWRENCE.1020483

110

Digitally signed by

DAY.JOHN.LAWRENCE.1020483110

Date: 2021.04.20 10:57:46 -04'00'

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #

USACE Block D-11

Project Number:

W912DR-15-D-0022

DATE:

26-30 October 2020

Team Personnel:

Site Supervisor: John Day

QC/Safety: Dan Dorrell

Team Members: , Shawn Meek, James Ennis, and Lowell(JR) Martin.

Goals:

- Surface sweeps.

Tasks completed:

- Surface sweeps completed in grids: T20-T25, U20-U25, V20-V25, W20-W24, X20-X24, Y20-Y24, Z18-Z23, AA18-AA23, AB18-AB22, AC18-AC22, A18-AD21, and AE19-AE20
- This week completes grid work for Block D Igloo MRS surface sweep.
- Weights, MDAS: 0lbs, MPPEH: 0lbs, CD 6lbs

Comments:

BEM: BEM Tarp replaced.

Other work performed:

Comments:

PREPARED BY:

John L. Day

SIGNATURE:

DAY.JOHN.LAWRENCE.10204
83110

Digitally signed by
DAY.JOHN.LAWRENCE.1020483110
Date: 2021.04.20 11:01:13 -04'00'



New BEM cover

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #

USACE Block D-12

Project Number:

W912DR-15-D-0022

DATE:

2-6 November 2020

Team Personnel:

Site Supervisor: John Day

QC/Safety: Dan Dorrell

Team Members: , Shawn Meek, and Lowell(JR) Martin.

Goals:

- Site recovery, and demobilization prep.

Tasks completed:

- Removed all marking tape and grid stakes used in the MRS.
- Turned in portable toilet, took the skid steer off rent.
- Moved all equipment and trailers out of Igloo Blocks D and E to ODA 2 in preparation for the semi annual creek walk and final site demobilization.
- Shawn Meek, and Lowell(JR) Martin demobilized from CJAG.

Comment:

BEM:

Other work performed:

Comments:

PREPARED BY:

John L. Day

SIGNATURE:

DAY.JOHN.LAWRENCE.10204
83110

Digitally signed by
DAY.JOHN.LAWRENCE.1020483110
Date: 2021.04.20 11:06:36 -04'00'

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #
USACE Block D-2021-01

Project Number:
W912DR-15-D-0022

DATE:
5-8 January 2021

Team Personnel:

Site Supervisor: John Day

QC/Safety: Ricky Whitten

Team Members: Dan Dorrell, Matt Rushwald

Goals:

- Surface Concrete Removal.

Tasks completed:

- Monday 4 Jan, Mobilize to site.
- Tuesday 5 Jan, relocate, and mark concrete.
- Wednesday 6 Jan, relocate and mark concrete, received the excavator and skid steer from United Rentals.
- Thursday 7 Jan, relocate and mark the surface concrete. Albert Whittington, and Myles West delivered the site a truck with, the fuel tank for the equipment.
- Friday 8 Jan, begin to stock pile the concrete.

Comments:

BEM:

Other work performed:

Comments:

PREPARED BY:
John L. Day

SIGNATURE:
DAY.JOHN.LAWRENCE.1020483
110

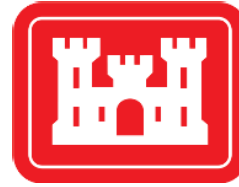
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First large chunk of concrete moved.

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #
USACE Block D-2021-02

Project Number:
W912DR-15-D-0022

DATE:
11-15 January 2021

Team Personnel:

Site Supervisor: John Day

QC/Safety: Ricky Whitten

Team Members: Dan Dorrell, Matt Rushwald

Goals:

- Surface Concrete Removal.

Tasks completed:

- Mon-Fri – Move concrete from the woods to consolidation points along the road.
- To date concrete has been removed from grids, K07, L04, L05, N04, N06, N09, O08, O09, O10, Q04, S06, S07, and U08.

Comments:

BEM:

Other work performed:

Comments:

PREPARED BY:
John L. Day

SIGNATURE:

DAY.JOHN.LAWRENCE.1020
483110

Digitally signed by
DAY.JOHN.LAWRENCE.1020483110
Date: 2021.01.18 16:11:18 -05'00'



Moving concrete to the road



Concrete ready to load into roll-offs (bucket for size)



Concrete not moved due to tree growing on top of it.

Weekly Site Report

Igloo area Block D
Camp James A. Garfield Joint Military Training Center
Ravenna, Ohio



Document #
USACE Block D-2021-03

Project Number:
W912DR-15-D-0022

DATE:
18-22 January 2021

Team Personnel:

Site Supervisor: John Day

QC/Safety: Dan Dorrell

Team Members: Matt Rushwald

Goals:

- Surface Concrete Removal.

Tasks completed:

- Mon-Fri – Move concrete from the consolidation points along the road to the roll off containers.
- To date concrete has been removed from grids, K07, L04, L05, N04, N06, N09, O08, O09, O10, Q04, S06, S07, and U08.
- Grids L17, and L19, have large culvert pipes that were not moved due to being too large.

Comments:

BEM:

Other work performed:

Comments:

PREPARED BY:

John L. Day

SIGNATURE:

DAY.JOHN.LAWRENCE.1020483110

Digitally signed by
DAY.JOHN.LAWRENCE.1020483110
Date: 2021.01.26 14:47:03 -0500



Loaded roll off.



Loading and leveling the concrete.

APPENDIX B: GRID SHEETS

USACE Grid Sheet
Camp James A Garfield Block D MRS

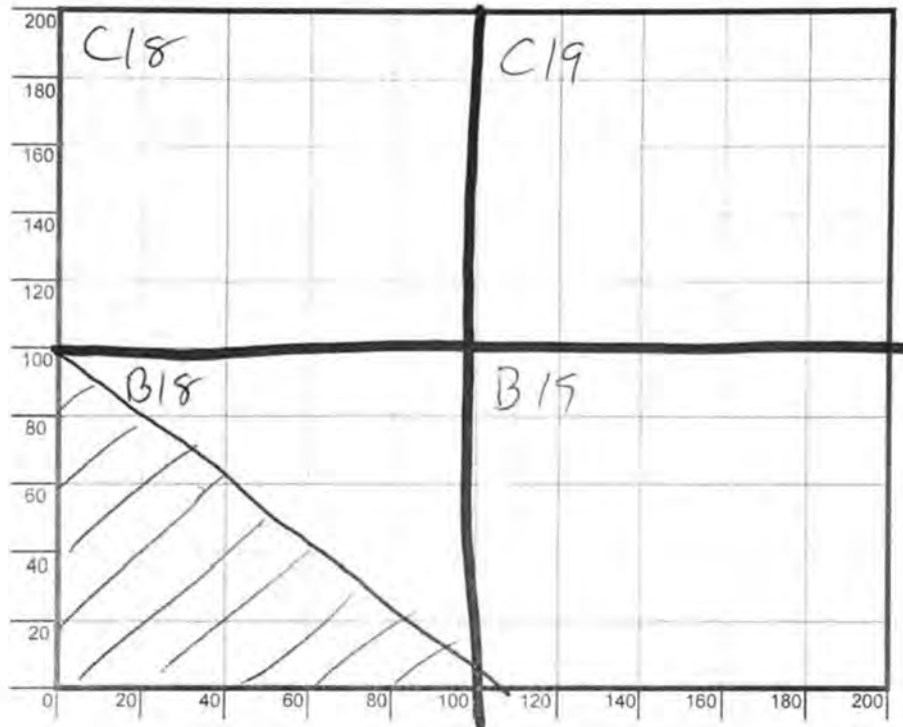


SW Corner: B 18 + A 19

Date: 8 Oct 2020

Lat/Long: 41.21257, -81.09639

Grid Sheet



Comments:

B18 B19 C18 C19

MPPEH
MEC
MPAS
CD

A19 - 0 Items Recovered 0-50 anomalies

Anomaly count(circle one): 0-50 50-100 100+

USACE Grid Sheet
Camp James A Garfield Block D MRS

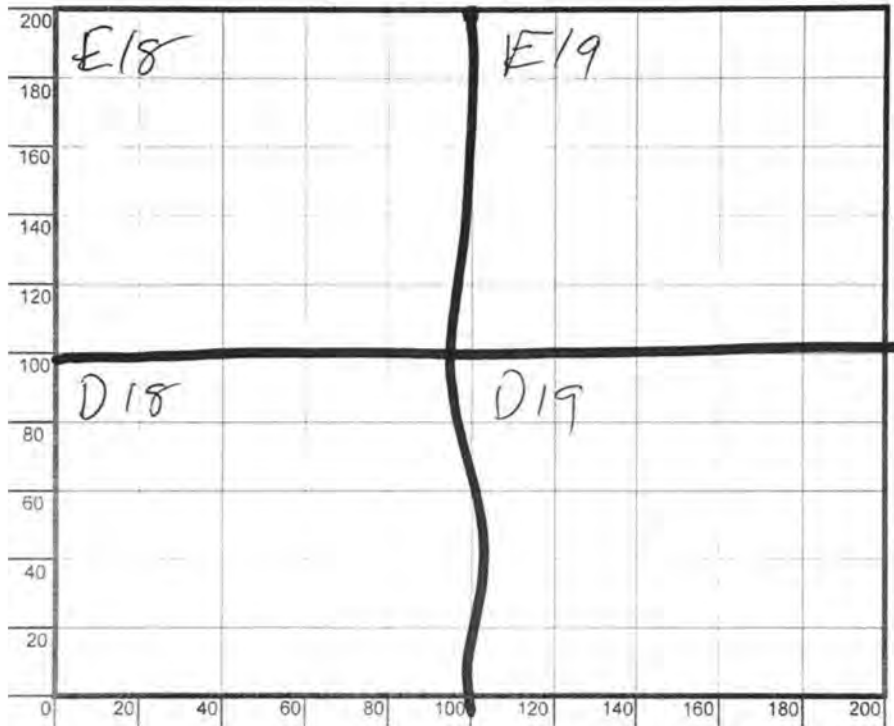


SW Corner: D18

Date: 8 Oct 2020

Lat/Long: 41.21302, -81.09634

Grid Sheet



Comments:

D18 D19 E18 E19

MPFH

MEC

MDAS

CD

Anomaly count(circle one):

0-50

50-100

100+

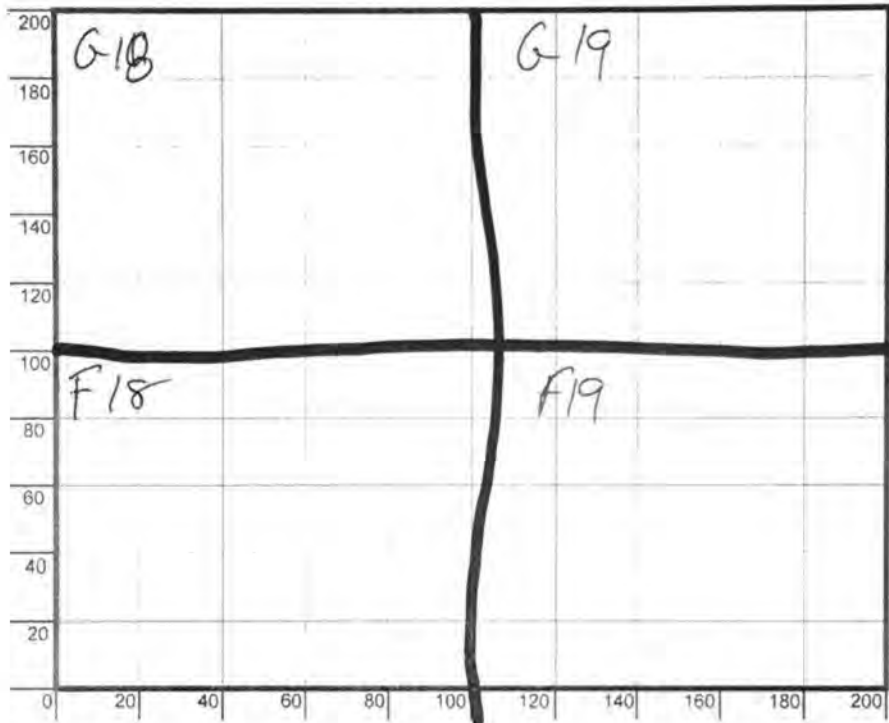
USACE Grid Sheet
Camp James A Garfield Block D MRS



SW Corner: F18

Date: 7 OCT 2020

Lat/Long: 41.21357, -81.09634 Grid Sheet



Comments:

F18 F19 G18 G19

MEPH

MEC

MDAS

CD

Anomaly count(circle one):

0-50

50-100

100+

USACE Grid Sheet
Camp James A Garfield Block D MRS

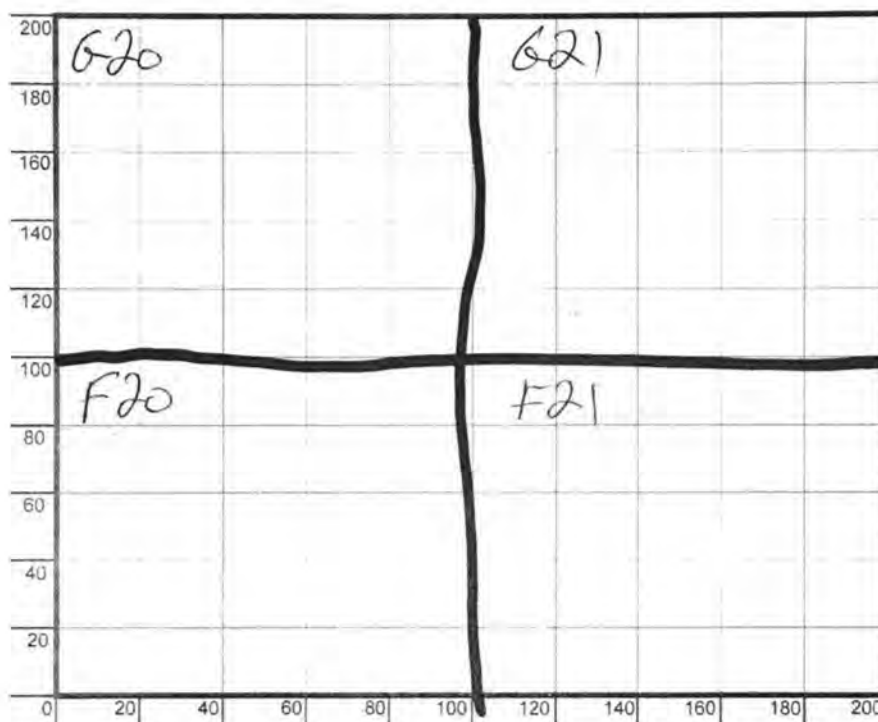


SW Corner: F20

Date: 9 Oct 2020

Lat/Long: 41.21357, -81.09562

Grid Sheet



Comments:

F20 F21 G20 G21

MPPFH

MEC

MDAS

CD

Anomaly count(circle one):

0-50

50-100

100+

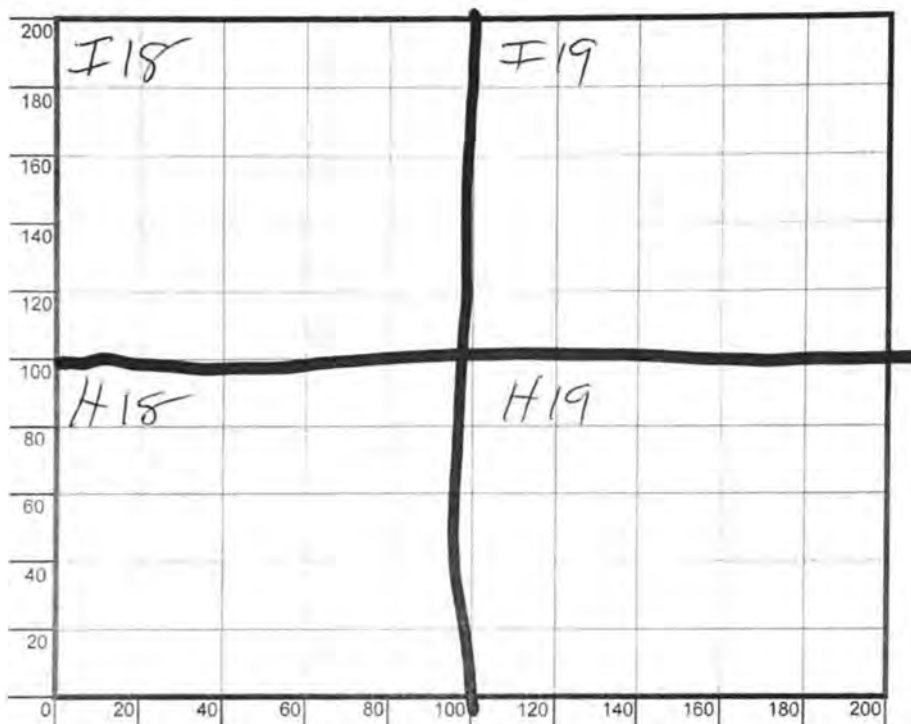
USACE Grid Sheet
Camp James A Garfield Block D MRS



SW Corner: H 18

Date: 7 Oct 2020

Lat/Long: 41.21412, -81.09634 Grid Sheet



Comments:

H 18 H 19 I 18 I 19

MPET

MEC

WDAS

CD

Anomaly count(circle one):

0-50

50-100

100+

USACE Grid Sheet
Camp James A Garfield Block D MRS

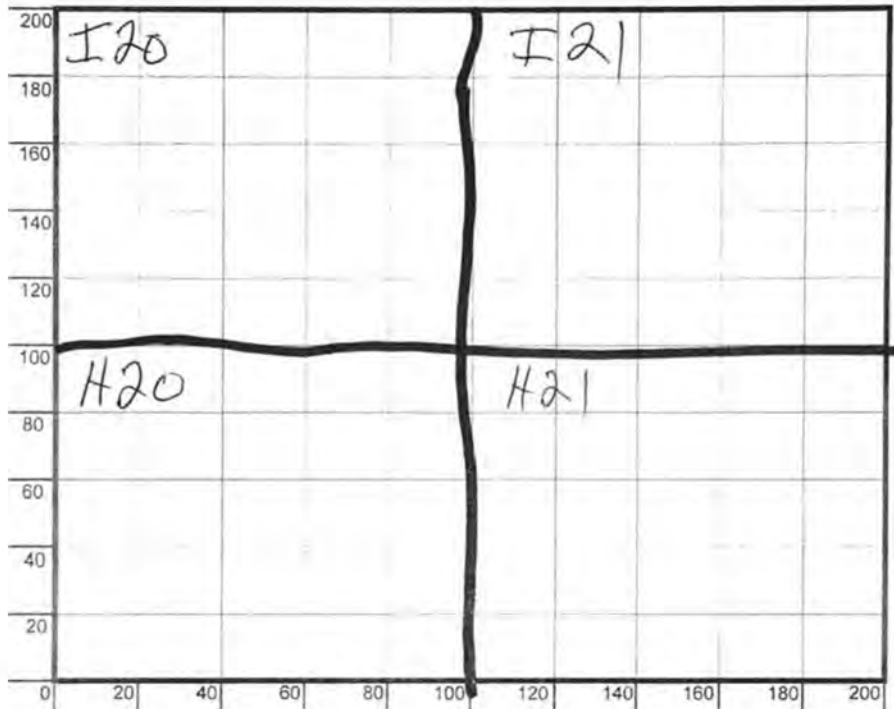


SW Corner: H 20

Lat/Long: 41.21412, -81.09562

Grid Sheet

Date: 9 OCT 2020



Comments:

H 20 H 21 I 20 I 21

MPPEH

MEC

MIDAS

CD

Anomaly count(circle one):

0-50

50-100

100+

USACE Grid Sheet
Camp James A Garfield Block D MRS

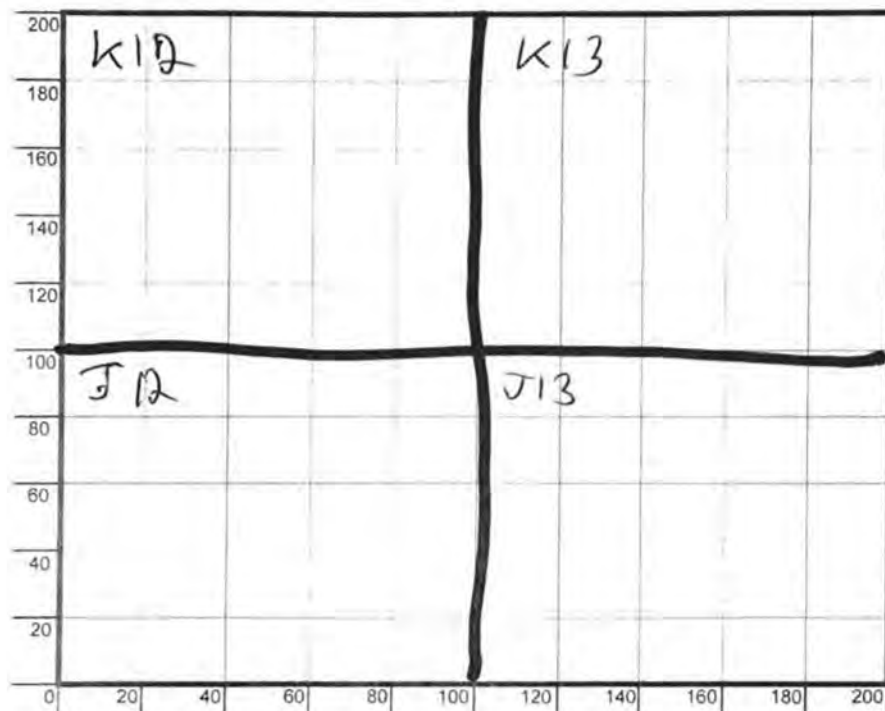


SW Corner: J12

Lat/Long: 41.21466, -81.09853

Date: 6 OCT 2020

Grid Sheet



Comments:

J12 J13 K12 K13

MPEN

MEC

MDAS

CD

Anomaly count(circle one):

0-50

50-100

100+

USACE Grid Sheet
Camp James A Garfield Block D MRS

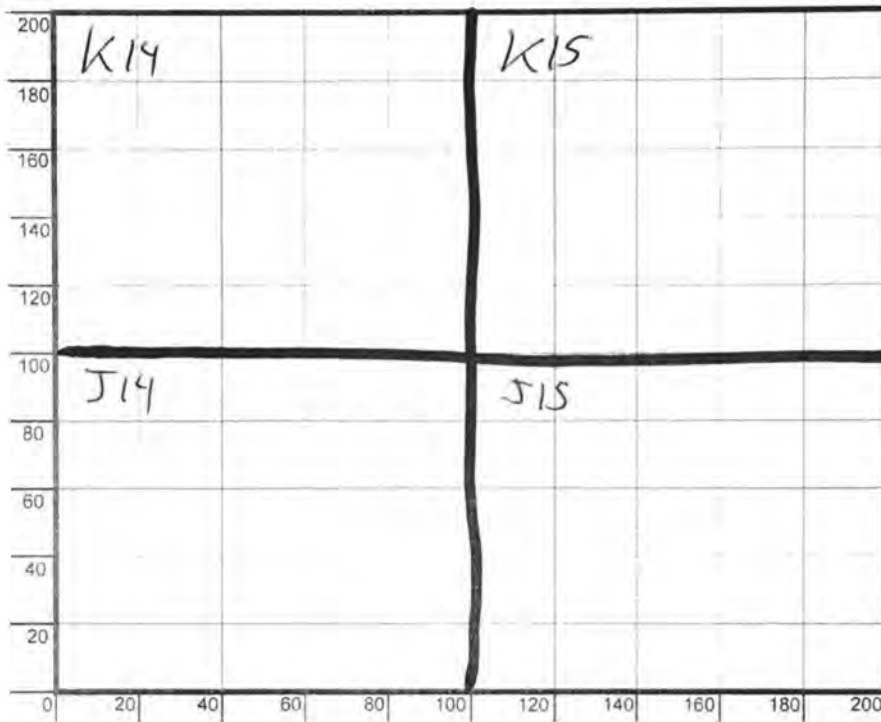


SW Corner: J 14

Date: 6 Oct 2020

Lat/Long: 91,21966, -81,09780

Grid Sheet



Comments:

J14 J15 K14 K15

MPPEH

MEL

MDAS

CD

Anomaly count(circle one):

0-50

50-100

100+

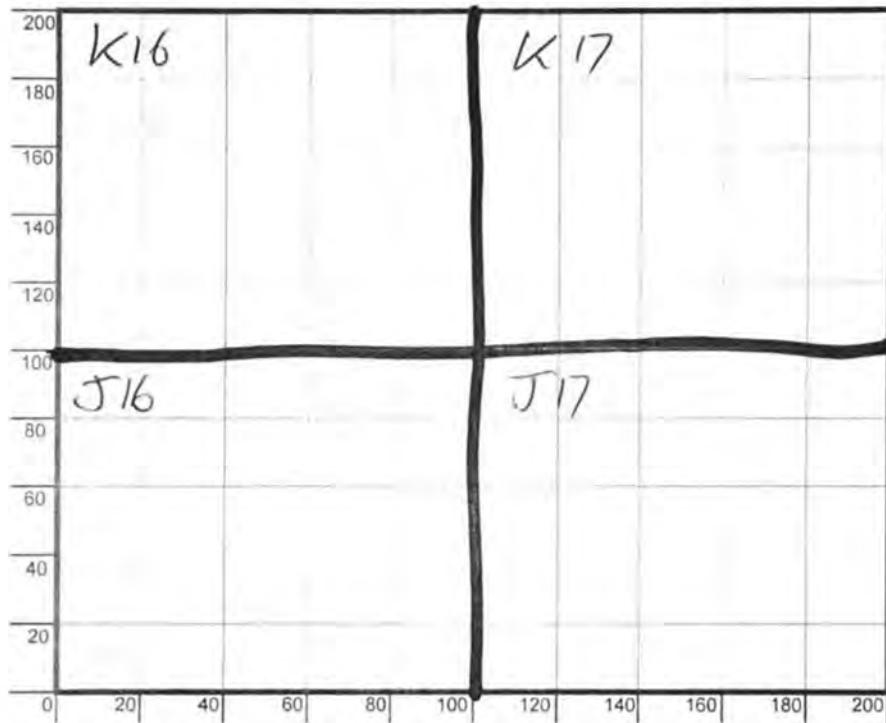
USACE Grid Sheet
Camp James A Garfield Block D MRS



SW Corner: J16

Date: 6 OCT 2020

Lat/Long: 41.21466, -81.09707 Grid Sheet



Comments:

J16 J17 K16 K17

MPPEIT
MEC
MDAS
CD

Anomaly count(circle one):

0-50

50-100

100+

USACE Grid Sheet
Camp James A Garfield Block D MRS

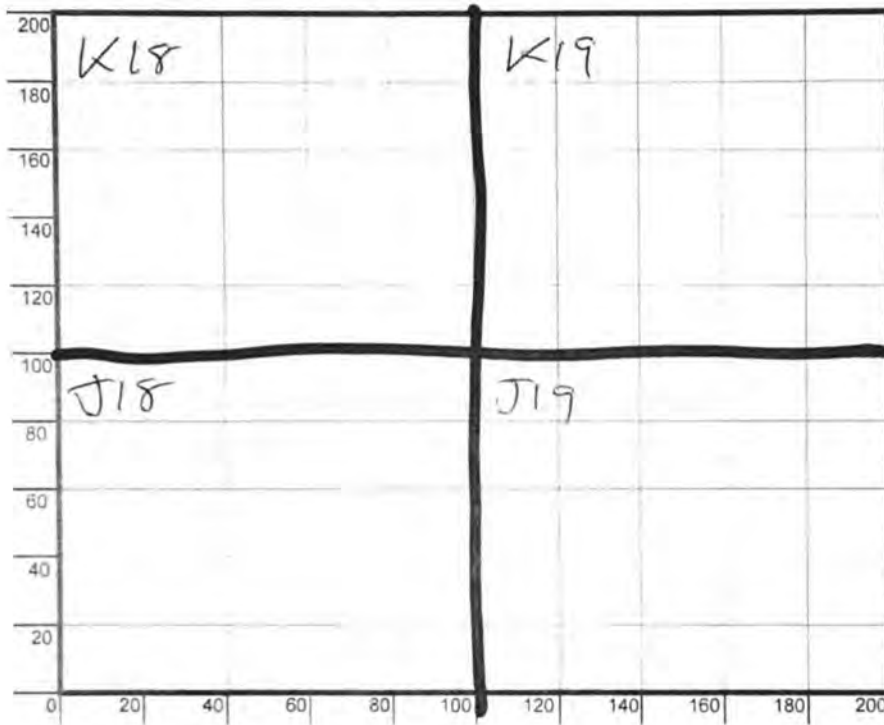


SW Corner: J18

Date: 7 OCT 2020

Lat/Long: 41.21466, -81.09634

Grid Sheet



Comments:

J18 J19 K18 K19

MPPEH

MEC

MDAS

CD

Anomaly count(circle one):

0-50

50-100

100+

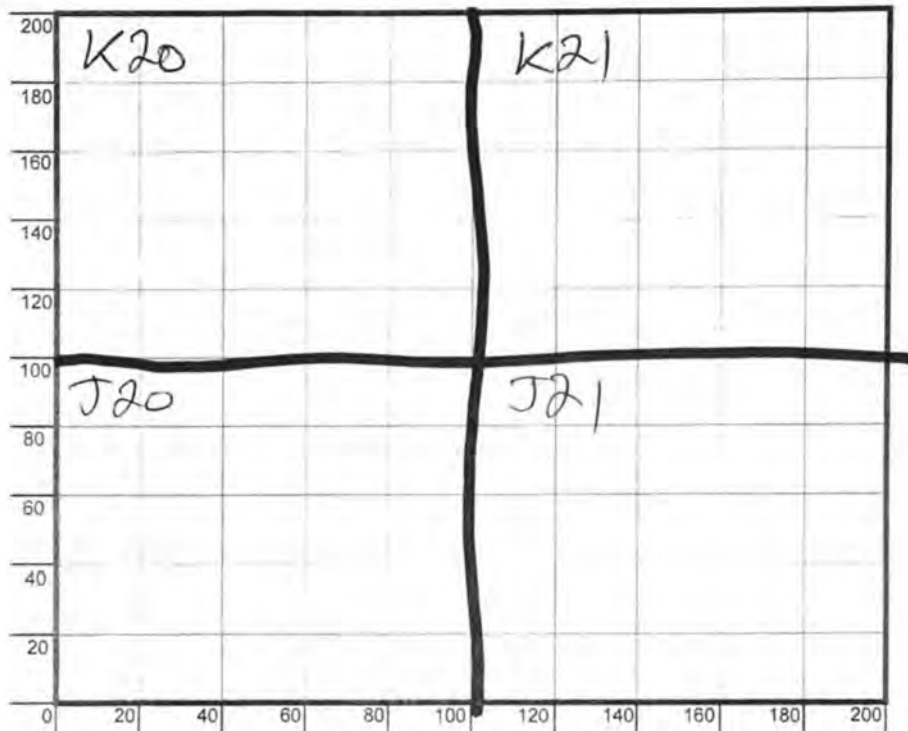
USACE Grid Sheet
Camp James A Garfield Block D MRS



SW Corner: J20

Date: 9 Oct 2020

Lat/Long: 91.21966, -81.09562 Grid Sheet



Comments:

J20 J21 K20 K21

MPPH

MCC

MDAS

CD

Anomaly count(circle one):

0-50

50-100

100+

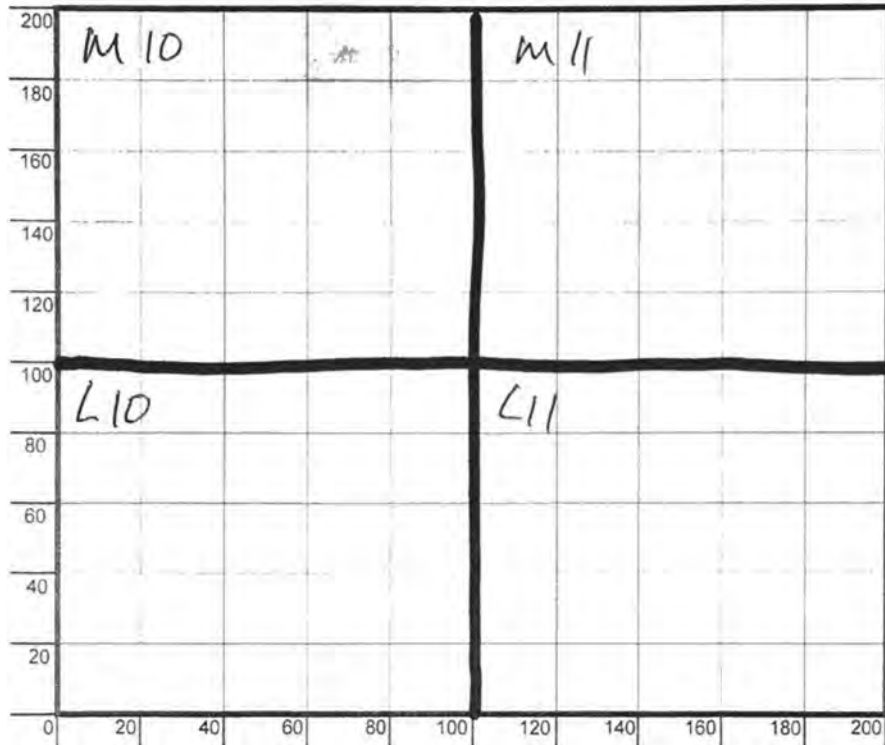
USACE Grid Sheet
Camp James A Garfield Block D MRS



SW Corner: L 10

Date: 5 OCT 2020

Lat/Long: 91.21521, -81.09925 Grid Sheet



Comments:

L 10 L 11 m 10 m 11

MPPEH

MFC

m DAC

CD

Anomaly count(circle one): 0-50 50-100 100+

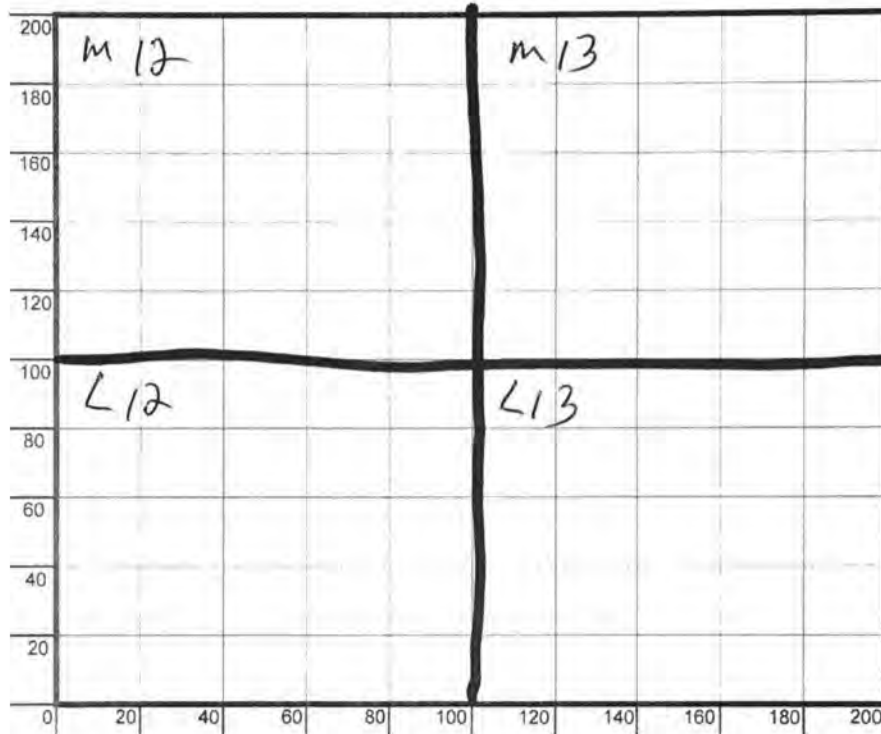
USACE Grid Sheet
Camp James A Garfield Block D MRS



SW Corner: L 12

Date: 5 Oct 2020

Lat/Long: 41.2521, -81.09853 Grid Sheet



Comments:

L 12 L 13 m 12 m 13

m p p e n

m e c

m d a s

c d

Anomaly count(circle one):

0-50

50-100

100+

USACE Grid Sheet
Camp James A Garfield Block D MRS

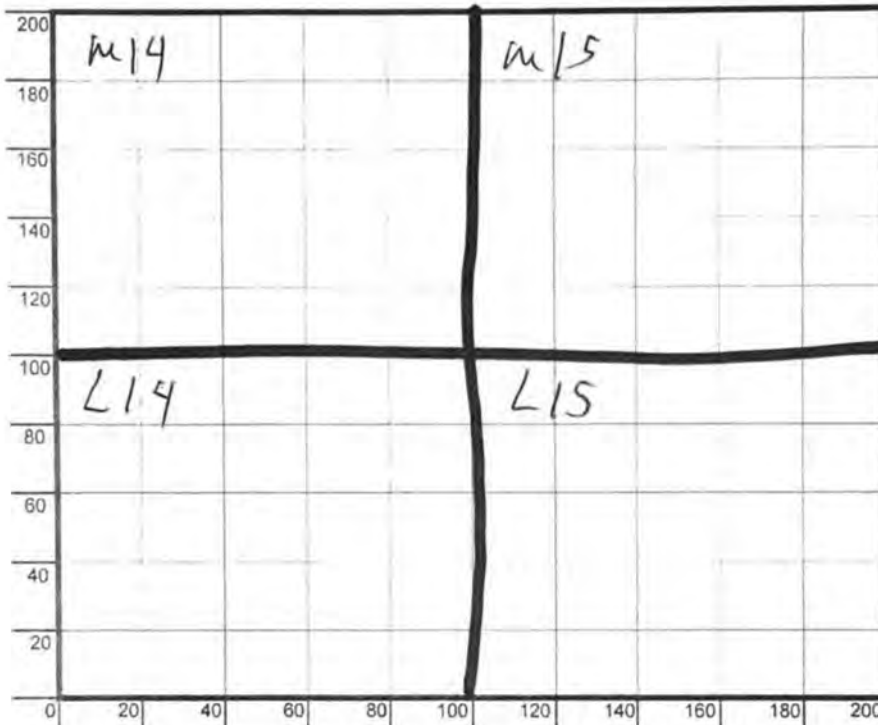


SW Corner: L14

Date: 5 Oct 2020

Lat/Long: 91.21521, -81.09780

Grid Sheet



Comments:

L14 L15 m14 m15

MPPEH

MCC

MDAS

CD

Anomaly count(circle one):

0-50

50-100

100+

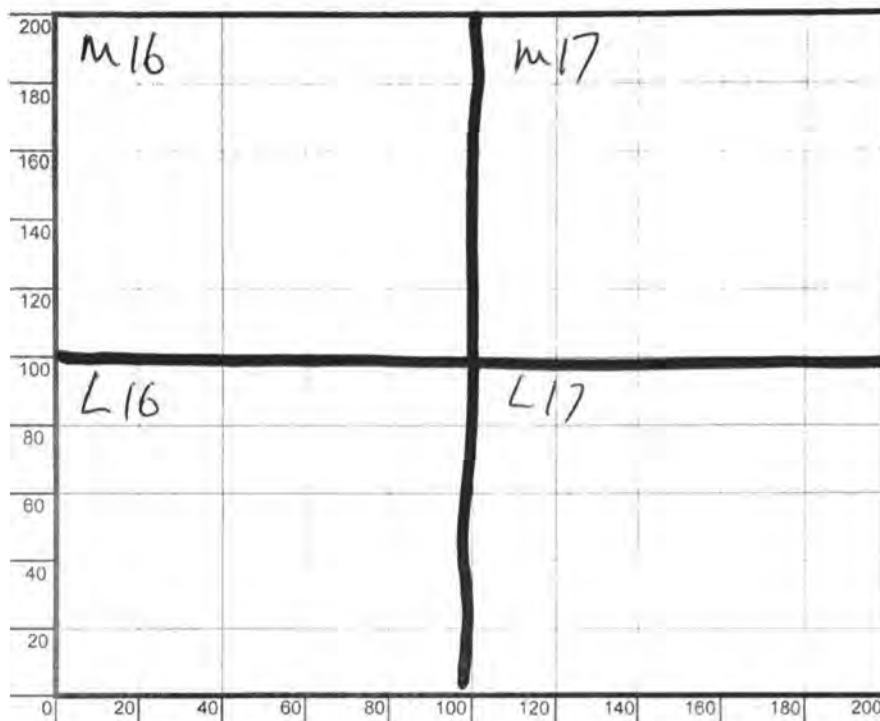
USACE Grid Sheet
Camp James A Garfield Block D MRS



SW Corner: L 16

Date: 5 Oct 2020

Lat/Long: 41.21521, -81.09708 Grid Sheet



Comments:

L 16 L 17 M 16 M 17

MPPEH

MEC

MDAG

CD

Anomaly count(circle one):

0-50

50-100

100+

APPENDIX C: FORM 1348 AND DISPOSAL MANIFESTS



Cuyahoga Regional Landfill
6640 Cochran Road
Solon, OH, 44139
Ph: 440-498-5700

Reprint
Ticket# 478373

Customer: DUMPSTERS.COM CLEVELAND LLC
830 CANTERBURY RD
WESTLAKE, OH, 44145

Ticket Date 01/21/2021

Account #: 0000600
Payment Type: Credit Account
Check #:
Manual Tckt#:
PO:

Carrier: Dumpsters.com
Dest.:
Vehicle#: 16-10
Container:
Driver: ED
Haul Tic#: FO75
Contract: HARDFILL

Volume

Manifest:
Profile ()
Generator

	Time	Scale	Operator
In	01/21/2021 09:20:00	Inbound	Scott
Out	01/21/2021 09:43:56	Outbound	Scott

Comments:

Inbound	Gross	37840 lb
	Tare	33260 lb
	Net	4580 lb
	Tons	2.29

Product	LD%	Qty	Rate	Fee	Amount	Origin
4000T-RGC TON	100	2.29 Tons				OH-CUYAHOG

Total Fees
Total Ticket

US Army Corp of Engineers
6499 George Road
Paris Township OH 44266



Cuyahoga Regional Landfill
6640 Cochran Road
Solon, OH, 44139
Ph: 440-498-5700

Reprint
Ticket# 478376

Customer: DUMPSTERS.COM CLEVELAND LLC
830 CANTERBURY RD
WESTLAKE, OH, 44145

Ticket Date 01/21/2021

Account #: 0000600
Payment Type: Credit Account
Check #:
Manual Tckt#:
PO:

Carrier: Dumpsters.com
Dest.:
Vehicle#: 9-10
Container:
Driver: JOHN
Haul Tic#: 97C6
Contract: HARDFILL

Volume

Manifest:
Profile ()
Generator

	Time	Scale	Operator
In	01/21/2021 09:43:23	Inbound	Scott
Out	01/21/2021 09:55:44	Outbound	Scott

Comments:

Inbound	Gross	37700 lb
	Tare	32320 lb
	Net	5380 lb
	Tons	2.69

Product	LD%	Qty	Rate	Fee	Amount	Origin
4000T-RGC TON	100	2.69 Tons				OH-CUYAHOG

Total Fees
Total Ticket

US Army Corp of Engineers

6499 George Road
Paris Township OH 44266



Cuyahoga Regional Landfill
6640 Cochran Road
Solon, OH, 44139
Ph: 440-498-5700

Reprint
Ticket# 478372

Customer: DUMPSTERS.COM CLEVELAND LLC
830 CANTERBURY RD
WESTLAKE, OH, 44145

Ticket Date 01/21/2021

Account #: 0000600
Payment Type: Credit Account
Check #:
Manual Tckt#:
PO:

Carrier: Dumpsters.com
Dest.:
Vehicle#: 17-10
Container:
Driver: JIM
Haul Tic#: 72FC
Contract: HARDFILL

Volume

Manifest:
Profile ()
Generator

	Time	Scale	Operator
In	01/21/2021 09:18:09	Inbound	Scott
Out	01/21/2021 09:38:04	Outbound	Scott

Comments:

Inbound	Gross	38580 lb
	Tare	35380 lb
	Net	3200 lb
	Tons	1.60

Product	LD%	Qty	Rate	Fee	Amount	Origin
4000T-RGC TON	100	1.60 Tons				OH-CUYAHOG

Total Fees
Total Ticket

US Army Corp of Engineers
6499 George Road
Paris Township OH 44266



Cuyahoga Regional Landfill
6640 Cochran Road
Solon, OH, 44139
Ph: 440-498-5700

Reprint
Ticket# 478369

Customer: DUMPSTERS.COM CLEVELAND LLC
830 CANTERBURY RD
WESTLAKE, OH, 44145

Ticket Date 01/21/2021

Account #: 0000600
Payment Type: Credit Account
Check #:
Manual Tckt#:
PO:

Carrier: Dumpsters.com
Dest.:
Vehicle#: 7-10
Container:
Driver: KEVIN
Haul Tic#: 1E2A
Contract: HARDFILL

Volume 10.0

Manifest:
Profile ()
Generator

	Time	Scale	Operator
In	01/21/2021 08:48:22	Inbound	Scott
Out	01/21/2021 09:06:19	Outbound	Scott

Comments:

Inbound	Gross	39160 lb
	Tare	33040 lb
	Net	6120 lb
	Tons	3.06

Product	LD%	Qty	Rate	Fee	Amount	Origin
4000T-RGC TON	100	3.06 Tons				OH-CUYAHOG

Total Fees
Total Ticket

US Army Corp of Engineers
6499 George Road
Paris Township OH 44266

Metalico Youngstown, Inc.
100 Division Street Ext.
Youngstown, OH 44510

USA751
US ARMY CORP ENGINEERS
5781 WAYLAND RD

Rcv:1675064
Date:11/10/20
Time:09:56
Ctl:1675064
Ref:

RAVENNA OH 44266

Commodity Gross	Description Tare	Net	Price/UM	Amount
FE800 13720	SHEET IRON 13220	500	0.00 / GT	0.00
Totals		500		0.00

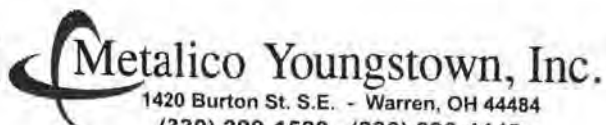
*** All transactions are rounded to the nearest whole dollar ***

I certify that I have the right to sell the merchandise listed above,
that it is free of hazardous material, all refrigerants as defined in
section 608 of the Clean Air Act and 40 CFR 82 are removed,
and all grades, weights, and prices are acceptable.

Signature: _____

ID: AP BS

Carrier:
Veh:



1420 Burton St. S.E. - Warren, OH 44484
(330) 399-1520 • (330) 399-4448
ISO 9001:2015 Certified

Date: 11/10/20

AFFIDAVIT OF DESTRUCTION

I, BEN SUNDGREN, a duly authorized representative of *Metalico Youngstown, Inc.*,
(referred as a Contractor) hereby certify that the material listed have been destroyed by shredding.

Contractor agrees that it complied with applicable laws, regulations and ordinances of the United States and the state, territory and political subdivision in which the shredding of material is performed; in particular, environmental protection laws and Occupational Safety and Health Act and regulations thereunder applicable to Contractor certifies that each requirement set forth in Exhibit A (Certificate of Compliance) has been satisfactorily completed.

Material

Shred Date

Material	Shred Date
<u>DOCUMENTED AS SAFE</u>	<u>560 #</u>
<u>11/10/20</u>	
<u>- CAMP JAMES A GARFIELD</u>	

Our Mission: To provide quality scrap metal products in a world marketplace at a competitive price so customers, employees and Metalico Youngstown Benefits.

Ben Sundgren
11/10/20