Final

Remedial Action Report for the RVAAP-12 Load Line 12

Ravenna Army Ammunition Plant Ravenna, Ohio

GSA Contract No. GS-10F-0076J Delivery Order No. W912QR-05-F-0033

Prepared for:



US Army Corps of Engineers.

United States Army Corps of Engineers Louisville District

Prepared by:



SAIC Engineering of Ohio, Inc. 8866 Commons Boulevard, Suite 201 Twinsburg, Ohio 44087

August 9, 2010

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Volume One - Main Report Version 1.0

Ravenna Army Ammunition Plant Ravenna, Ohio

GSA Contract No. GS-10F-0076J Delivery Order No. W912QR-05-F-0033

Prepared for:

U.S. Army Corps of Engineers 600 Martin Luther King, Jr. Place Louisville, Kentucky 40202

Prepared by:

SAIC Engineering of Ohio, Inc. 8866 Commons Boulevard, Suite 201 Twinsburg, Ohio 44087

August 9, 2010

CONTRACTOR STATEMENT OF INDEPENDENT TECHNICAL REVIEW

Science Applications International Corporation (SAIC) has completed the Final Remedial Action Report for the RVAAP-12 Load Line 12 at the Ravenna Army Ammunition Plant, Ravenna, Ohio. Notice is hereby given that an independent technical review has been conducted that is appropriate to the level of risk and complexity inherent in the project. During the independent technical review, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of data quality objectives; technical assumptions; methods, procedures, and materials to be used; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing USACE policy.

Jed Thomas, P.E. Study/Design Team Leader

1 Kutledge

Independent Technical Review Team Leader

Significant concerns and the explanation of the resolution are as follows:

Internal SAIC Independent Technical Review comments are recorded on a Document Review Record per SAIC quality assurance procedure QAAP 3.1. This Document Review Record is maintained in the project file. Changes to the report addressing the comments have been verified by the Study/Design Team Leader.

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

Tad Fox Principal w/ A-E firm

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NGB = National Guard Bureau

OHARNG = Ohio Army National Guard

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REIMS = Ravenna Environmental Information Management System

RVAAP = Ravenna Army Ammunition Plant

SAIC = Science Applications International Corporation

USACE = United States Army Corps of Engineers

USAEC = United States Army Environmental Command

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- Appendix C. Field Change Request Forms
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ACRONYMS AND ABBREVIATIONS

AOC	Area of Concern
ARAR	Applicable and Relevant or Appropriate Requirement
bgs	Below Ground Surface
BRACD	Base Realignment and Closure Division
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	Chemical of Concern
CUG	Cleanup Goal
DFFO	Director's Final Findings and Orders
DoD	Department of Defense
EPC	Exposure Point Concentration
FS	Feasibility Study
GSA	United States General Services Administration
IRP	Installation Restoration Program
MEC	Munitions and Explosives of Concern
MI	Multi-Increment
MRS	Munitions Response Site
NGB	National Guard Bureau
NPDES	National Pollutant Discharge Elimination System
NWP	Nationwide Permit
O&M	Operations and Maintenance
OHARNG	Ohio Army National Guard
Ohio EPA	Ohio Environmental Protection Agency
OHPO	Ohio Historic Preservation Office
PBA	Performance-Based Acquisition
PBC	Performance-Based Contract
RAO	Remedial Action Objective
RAR	Remedial Action Report
RD	Remedial Design
RI	Remedial Investigation
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
RVAAP	Ravenna Army Ammunition Plant
SAIC	Science Applications International Corporation
SSHO	Site Safety and Health Officer
USACE	U.S. Army Corps of Engineers
USACHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
USFWS	United States Fish and Wildlife Service
UXO	Unexploded Ordnance

1.0 INTRODUCTION

Science Applications International Corporation (SAIC) has been contracted by the U.S. Army Corps of Engineers (USACE), Louisville District, to provide environmental services in support of six high priority areas of concern (AOCs) at the Ravenna Army Ammunition Plant (RVAAP) in Ravenna, Ohio. This Remedial Action Report (RAR) describes the field activities and documents attainment of the remedial action cleanup goals (CUGs) for soil and dry sediment at Load Line 12.

This work is being performed under a Performance-Based Acquisition (PBA) [formerly termed Performance-Based Contract (PBC)] in accordance with U.S. General Services Administration (GSA) Environmental Advisory Services Contract GS-10-F-0076J. In addition, planning and performance of all work elements is being conducted in accordance with the requirements of the Ohio Environmental Protection Agency (Ohio EPA) *Director's Final Findings and Orders* (DFFO) for RVAAP, dated June 10, 2004 (Ohio EPA 2004).

1.1 PURPOSE

The purpose of this RAR is to document 1) the fulfillment of the selected remedy for soil and dry sediment at Load Line 12, and 2) the achievement of the remedial action objective (RAO) as stated in the *Record of Decision (ROD) for Soil and Dry Sediment at the RVAAP-12 Load Line 12* (USACE 2009a). The RAO for Load Line 12 soil and dry sediment is to prevent National Guard Trainee exposure to contaminants in soil and dry sediment that exceed the clean-up goals to a depth of 4 ft below ground surface (bgs). Achievement of this RAO requires removal of dry sediment within the Main Ditch aggregate, as the Main Ditch was identified as having a chemical of concern (COC) requiring remediation.

During the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process for Load Line 12, soil and sediment in the Main Ditch aggregate was considered to be "dry sediment." Water periodically accumulates in the Main Ditch and this RAR notes that water existed in the Main Ditch during the remedial action; however, the media is still considered "dry sediment" per RVAAP definition due to the intermittent presence of water. Therefore, successful remediation of the Main Ditch fulfills the requirements of the ROD to achieve remedy that is protective of the National Guard Trainee for soil and dry sediment.

Fulfillment of this selected remedy was executed in accordance with the *Remedial Design for the RVAAP-12 Load Line 12* (USACE 2009b). This RAR summarizes all administrative and field activities performed as specified in the Load Line 12 Remedial Design (RD). The report also includes a presentation of the confirmation sampling scheme and analytical results which verify the achievement of soil and dry sediment CUGs for the anticipated future land use (National Guard Trainee) of Load Line 12.

1.2 REPORT ORGANIZATION

This RAR is organized as follows:

- Section 1: Introduction
- Section 2: Background Information
- Section 3: Project Organization
- Section 4: Construction Mobilization
- Section 5: Excavation and Sampling Activities
- Section 6: Site Restoration
- Section 7: Conclusions
- Section 8: References
- Appendices:
 - Appendix A: Permits, Notifications, and Approvals
 - A-1. United States Fish and Wildlife Service (USFWS) Concurrence Letter
 - A-2. Ohio Historic Preservation Office (OHPO) Concurrence Letter
 - A-3. Approval for Coverage under Ohio EPA General Permit OHC000003
 - A-4. Portage Soil and Water Conservation District Approval
 - A-5. USACE-Pittsburgh District Confirmation of Preconstruction Notification to Operate Under Nationwide Permit #38
 - A-6. Utility Clearance Communication Summary
 - A-7. Ohio EPA Approval of Backfill Source
 - Appendix B: Laboratory Analytical Results
 - Appendix C: Field Change Request Forms
 - Appendix D: Waste Manifests

This section describes the facility and AOC, discusses the previous investigations at Load Line 12, and presents the RAOs and remedial action CUGs.

2.1 GENERAL FACILITY DESCRIPTION

When the RVAAP Installation Restoration Program (IRP) began in 1989, RVAAP was identified as a 21,419-acre installation. The property boundary was resurveyed by Ohio Army National Guard (OHARNG) over a 2-year period (2002 and 2003) and the total acreage of the property was found to be 21,683.289 acres. As of February 2006, a total of 20,403 acres of the former 21,683-acre RVAAP was transferred to the National Guard Bureau (NGB) and was subsequently licensed to OHARNG for use as a military training site.

The current RVAAP consists of 1,280 acres scattered throughout the OHARNG Camp Ravenna Joint Military Training Center, herein referred to as Camp Ravenna. Camp Ravenna is in northeastern Ohio within Portage and Trumbull Counties, approximately 4.8 km (3 miles) east-northeast of the city of Ravenna and approximately 1.6 km (1 mile) northwest of the city of Newton Falls. The RVAAP portions of the property are solely located within Portage County. Camp Ravenna/RVAAP is a parcel of property approximately 17.7 km (11 miles) long and 5.6 km (3.5 miles) wide, bounded by State Route 5, the Michael J. Kirwan Reservoir, and the CSX System Railroad on the south; Garret, McCormick, and Berry roads on the west; the Norfolk Southern Railroad on the north; and State Route 534 on the east (Figures 2-1 and 2-2). Camp Ravenna is surrounded by several communities: Windham on the north; Garrettsville 9.6 km (6 miles) to the northwest; Newton Falls 1.6 km (1 mile) to the southeast; Charlestown to the southwest; and Wayland 4.8 km (3 miles) to the south.

When RVAAP was operational, Camp Ravenna did not exist and the entire 21,683-acre parcel was a government-owned, contractor-operated industrial facility. The RVAAP IRP encompasses investigation and cleanup of past activities over the entire 21,683 acres of the former RVAAP. References to RVAAP in this document are considered to be inclusive of the historical extent of RVAAP, which is inclusive of the combined acreages of the current Camp Ravenna and RVAAP, unless otherwise specifically stated.

2.2 LOAD LINE 12 DESCRIPTION AND HISTORY

Load Line 12 is approximately 80 acres in size and is located in the southeastern portion of RVAAP/Camp Ravenna. Elevations across Load Line 12 range from approximately 970 to 987 ft. Silty to clayey soil and glacial sediments overlie shale bedrock at Load Line 12, except where disturbed by RVAAP activities. The majority of soil at Load Line 12 was disturbed and re-graded during demolition activities that occurred between 1998 and 2000. Soil in the former production areas contains a mix of sandy fill, sand, ballast material, slag, and residual debris (e.g., metal, brick, and concrete). The Main Ditch aggregate bisects the central part of the AOC flows to the north, into

drainage ditches north of the AOC. The Main Ditch is heavily wooded. The Active Area Channel traverses Load Line 12 from west to east and intercepts the Main Ditch near the northern boundary of the AOC. Ultimately the drainage flows into Upper and Lower Cobbs Ponds, which is several hundred yards north of Load Line 12. However, in recent years a beaver colony has constructed dams north of Load Line 12. The dams prevent surface water drainage from the AOC, and stagnant water often resides within the Main Ditch and Active Area Channel. Site features are presented in Figure 2-3.

Load Line 12 was originally known as the Ammonium Nitrate Plant and began operations on November 25, 1941. Structures related to the production of the ammonium nitrate were the Neutral Liquor Building (Building FF-19) and seven evaporation/crystallization units (Buildings 900, 901, 902, 903, 904, 905, and 906). Other structures, such as Water Works No. 2 and Power House No. 3 (Building FE-17), housed support operations. The western half of Load Line 12 contained former production areas. The eastern half was previously cleared, but did not contain any known production facilities. The Remedial Investigations (RIs) identified an area (informally termed the Team Track Area) immediately north of Load Line 12 that was apparently used for the offloading and staging of materials used in Load Line 12 production activities.

In May 1943, production of ammonium nitrate was terminated. From 1946 to 1950, a private contractor leased Load Line 12 to produce fertilizer-grade ammonium nitrate. From 1965 to 1967, a private contractor leased Building FF-19 for the production of aluminum chloride. The U.S. Army terminated the lease early due to environmental concerns related to air emissions and wastewater discharges to Upper and Lower Cobbs Ponds.

In June 1944, Buildings 900, 904, and 905 were converted for demilitarization of munitions. Rinsate from demilitarization operations was initially allowed to flow out of the buildings and directly onto the ground or to drainage ditches. In 1981, the Load Line 12 Pink Water Treatment Plant was built to treat the demilitarization effluent prior to discharge. After the termination of demilitarization operations, the treatment plant was used under a National Pollutant Discharge Elimination System (NPDES) permit to treat explosives-tainted storm water from Load Line 12 and other RVAAP locations.

Currently, there are no above-grade structures remaining at Load Line 12. Demolition of Buildings 901, 902, 906, and FF-19 took place between 1973 and 1975. Building FN-54 (bagging and shipping facility) was demolished in the 1980s. In 1999, approximately 1,500 cubic feet of soil was removed from four pits near Building 904 and taken to a former warehouse at Load Line 4 as part of an explosives composting pilot study. Demolition of all remaining structures took place between 1998 and 2000. A former blast berm near Building 903 was removed and used as fill for areas around Buildings 903 and FE-17.

2.3 PREVIOUS INVESTIGATIONS AND ACTIVITIES

The following sections provide a summary of the previous investigations and activities performed to date at Load Line 12.

2.3.1 Relative Risk Site Evaluation

A relative risk site evaluation (RRSE) was performed by the U.S. Army Center for Health Promotion and Preventative Medicine (USACHPPM). The results of the RRSE (USACHPPM 1996) provided the U.S. Army with qualitative and quantitative data to score sites, which provided the U.S. Army with a basis for prioritizing cleanups and allocating funds. The scores can be "High," "Medium," or "Low." The evaluation gave Load Line 12 a final score of "High." Re-evaluation of the Load Line 12 risk ranking performed at the completion of the Phase I RI resulted in the AOC retaining its "High Risk" rating (USACE 1998).

2.3.2 Phase I/Phase II Remedial Investigation

The Phase I RI for Load Line 12 (USACE 1998) included sampling and analysis of surface soil (0-1 ft bgs), ditch sediment, and sediment from the Building 904 settling basin. The Phase I RI results indicated concentrations of explosives, inorganics, and organic compounds occurring in soil and dry sediment throughout the production area above risk-based screening values.

The Phase II RI for Load Line 12 (USACE 2004) characterized the nature and extent of contamination surface soil (0 to 1 ft bgs), subsurface soil (1 to 7 ft bgs), sediment, surface water, and groundwater, and assessed the potential risk to human health and the environment resulting from former operations at Load Line 12. Arsenic was identified as a COC in dry sediment in the Main Ditch for the National Guard Trainee at Load Line 12. Calculated risk from this metal is primarily associated with the very high dust loading factor and inhalation rate assumed for the National Guard Trainee.

Additional groundwater characterization was conducted in 2004 and is summarized in the *Phase II Remedial Investigation Supplemental Report for Load Line 12* (USACE 2005).

2.3.3 Feasibility Study

Preliminary CUGs for soil and dry sediment were developed in the *Feasibility Study for Load Line 12* (*RVAAP-12*) (USACE 2006) to support the remedial alternative selection process for soil and dry sediment remediation at Load Line 12. Remedial alternatives were assembled for impacted soil and dry sediment at Load Line 12. The remedial alternatives were constructed by combining general response actions, technology types, and process options retained from the screening processes described in the Feasibility Study (FS). Remedial alternatives assured adequate protection of human health and the environment, achieved RAOs, met applicable and relevant or appropriate requirements (ARARs), and permanently and significantly reduced the volume, toxicity, and/or mobility of COCs.

The analysis of chemical concentration data indicated there were no soil COCs or dry sediment COCs outside of the Main Ditch aggregate requiring remediation to achieve National Guard Trainee and Resident Subsistence Farmer land use standards. The only dry sediment COC that required remediation within the Main Ditch aggregate at Load Line 12 was arsenic. Consequently, the recommended remedial alternative for Load Line 12, as presented in the FS, was Alternative 3 - Excavation of Soil/Dry Sediment with Offsite Disposal ~ National Guard Trainee Land Use. This alternative addressed dry sediment in the Main Ditch at Load Line 12 that exceeded CUGs for the anticipated future land use (National Guard Trainee).

2.3.4 Community Involvement and Regulatory Approval

The *Proposed Plan for Soil and Dry Sediment at Load Line 12 (RVAAP-12)* (USACE 2007) was presented to the public on April 4, 2007, and a 30-day public comment period was conducted until May 3, 2007. On April 10, 2007, a public meeting was held in Newton Falls, Ohio presenting the recommended alternative. Comments were collected and incorporated into the ROD.

The *Record of Decision (ROD) for Soil and Dry Sediment at the RVAAP-12 Load Line 12* (USACE 2009a) documented the selected remedial action alternative (Alternative 3 - Excavation of Soil/Dry Sediment with Offsite Disposal ~ National Guard Trainee Land Use), RAO, and remedial action CUGs for soil and dry sediment at Load Line 12.

The ROD includes a Responsiveness Summary addressing public comments received during the public comment period and public meeting. The ROD was signed by the Branch Chief for the Base Realignment and Closure Division (BRACD) on August 20, 2009 and the Director of the Ohio EPA on October 13, 2009.

2.3.5 Remedial Action Objective and Remedial Action Cleanup Goal

As stated in the ROD, the RAO for Load Line 12 was to prevent National Guard Trainee exposure to contaminants in soil and dry sediment that exceed CUG to a depth of 4 ft bgs. The selected remedy addressed soil and dry sediment to a depth of 4 ft bgs because potential disturbance of soil to that depth is possible under the National Guard Trainee future land use.

There was no remedial action required for soil at Load Line 12. For dry sediment, arsenic required remediation within the Main Ditch aggregate. From previous investigations, the arsenic exposure point concentration (EPC) in the Main Ditch was 410 mg/kg, which exceeded the CUG for the National Guard Trainee (31 mg/kg). Based on the risk evaluation, remediation of dry sediment within the Main Ditch was required to achieve the National Guard Trainee future land use. Table 2-1 presents the CUG for Load Line 12.

Chemical of Concern	Cleanup Goal (mg/kg)
Arsenic	31

-The dry sediment requiring remediation is within the Main Ditch aggregate.

2.3.6 Remedial Design

The *Remedial Design for the RVAAP-12 Load Line 12* (USACE 2009b) was developed to detail the implementation of the remedial action for dry sediment within the Main Ditch aggregate at Load Line 12 to achieve the RAO and CUGs. The RD presented the project organization, notification requirements, design drawings, and technical guidance and specifications. Additionally, the RD outlined the restoration specifications once contaminated dry sediment was removed. The RD was approved by the Ohio EPA on January 5, 2010.

As noted in Section 4.0 of the RD, soil and dry sediment remedial design sampling was conducted on May 4, 2009. This sampling had two purposes: 1) characterization for the purposes of waste profiling for disposal facility acceptance, and 2) confirm the final extent of soil and dry sediment containing arsenic above the CUG and requiring removal.

The waste profile sample results demonstrated that soil and dry sediment from the Main Ditch was nonhazardous waste. Arsenic concentrations for dry sediment within MI sample area L12-259M had a concentration of 21.1 mg/kg, which was below the CUG of 31 mg/kg. These results are shown in Section 4.0 and Figure 4-1 of the RD. Because the concentration of L12-298M was below the CUG, this MI sample area of the Main Ditch did not require sediment removal.



Figure 2-1. General Location and Orientation of RVAAP/Camp Ravenna



Figure 2-2. RVAAP/Camp Ravenna Installation Map

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Figure 2-3. Load Line 12 Site Features

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Figure 3-1 presents the project organization chart for this remedial action. The U.S. Army was the lead entity and was responsible for the implementation of this remedial action. The USACE, Louisville District provided technical oversight on behalf of the U.S. Army. Ohio EPA was the regulatory authority governing work on this remedial action. SAIC was the primary contractor responsible for implementing the RD, which included the following:

- 1) Selected and procured a qualified remedial subcontractor (Toltest, Inc.) to perform the work described herein;
- 2) Provided project management and construction oversight;
- 3) Coordinated transportation and disposal activities with RVAAP; and
- 4) Collected confirmation samples.

A full description of the roles and responsibilities is included in Section 2.0 of the RD.



Figure 3-1. Project Organizational Chart

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This section describes construction mobilization and site preparation activities required to implement the RD, including permit and notification requirements and site preparation activities.

4.1 PERMITS, NOTIFICATIONS, AND APPROVALS

Based on review of applicable requirements, the following permits, notifications, approvals, and/or concurrence letters were required for the remedial action:

- USFWS concurrence letter (received October 20, 2009);
- OHPO concurrence letter (received November 9, 2009);
- Portage County Soil and Water Conservation District concurrence letter (received January 7, 2010);
- Approval for coverage under the Ohio EPA NPDES Construction General Permit No. OHC000003; and
- USACE, Pittsburgh District authorization to perform this remedial action under Nationwide Permit (NWP) #38 (received November 16, 2009).

All signatory documentation (e.g., permits and manifests) were obtained through RVAAP or USACE representatives. The permits, notifications, and approvals are presented in Appendix A. No other federal, state, or municipal permits, notifications, or requirements were determined to be applicable for this remedial action.

The authorization to use NWP #38 is valid until July 10, 2011 and requires the completion of the Compliance Certification Form following the remedial activities. Once the site is restored and revegetated per Section 8.0 of the RD, SAIC will coordinate with appropriate U.S. Army representatives to complete and submit this form.

Ohio EPA was notified of the construction start date during a regularly scheduled bi-weekly teleconference on January 5, 2010. Throughout the project, all RVAAP Stakeholders were informed and updated regularly of activities performed and scheduled during bi-weekly teleconferences, monthly reports, and e-mail correspondences.

4.2 MOBILIZATION AND SITE PREPARATION

4.2.1 Utility Clearance

A meeting with the RVAAP Operations and Maintenance (O&M) Contractor (Vista Sciences Corporation) was conducted on December 22, 2009. During this meeting, the following items were discussed:

- 1) SAIC intends to excavate only the surface of the Main Ditch running through Load Line 12.
- 2) The overhead electrical lines paralleling the ditch (east side of the ditch) are active. SAIC and the Subcontractor will perform the following:
 - Inspect all utility poles to ensure active lines traveling down any utility pole do not go into the ground. If present, an underground line could be struck when excavation is in progress.
 - Assume that every electric line is energized until proven it is not.
 - Take caution when using an excavator and when felling trees.
- 3) RVAAP and OHARNG do not have plans for any existing subsurface phone lines at Load Line 12. Damaged lines do not require repair.
- 4) Mark Patterson noted that there is a potential to encounter pressurized waterlines. There were historical encounters of those water lines at approximately 3 to 4 feet bgs. SAIC will do the following:
 - Conduct a field reconnaissance to identify stick ups that may show where waterlines are located.
 - Slowly and cautiously conduct excavation activities to avoid damaging these waterlines.

Documentation of this conversation is presented in Appendix A.

4.2.2 Site Preparation

Site mobilization activities began on January 21, 2010. These activities included installation of storm water controls, installation of construction traffic signage, and placement of gravel for a construction entrance/exit, portable water storage tank area, and equipment movement area. Maintenance of the construction entrance/exit, equipment movement area, and storm water controls was performed throughout the project.

As part of the site preparation, a site survey was performed by the Munitions and Explosives of Concern (MEC) Avoidance Subcontractor. The Main Ditch is not within a munitions response site (MRS) boundary in the *Site Inspection Report for Munitions Response Sites under the Military Munitions Response Program* (E2M 2008). However, a U.S. Army and/or Department of Defense (DoD) certified unexploded ordnance (UXO) Technician II or UXO Technician III performed the site survey and remained on-site during excavation and/or intrusive activities. No MEC was encountered during remedial activities.

4.2.2.1 Site and Access Controls

Prior to implementation of the remedial action, SAIC submitted a roster of all personnel (including subcontractors) who would be working at Load Line 12 to the RVAAP O&M Contractor. The roster was maintained and submitted to the RVAAP O&M Contractor on a weekly basis or as necessary. The SAIC Construction Manager coordinated with RVAAP security to ensure Post 1 was notified of incoming deliveries or pickups. Signs were erected along the traffic route to expedite deliveries, maintain traffic flow, promote safety, and prevent interference with other RVAAP/Camp Ravenna operations (Photograph 4-1).

4.2.2.2 <u>Rock Construction Entrance, Access Road Improvements, and Truck Turnaround</u> <u>Area</u>

An equipment movement area and rock construction entrance was installed in accordance with specifications on Attachment C - Drawing C-4 of the RD and Field Change Request FCR-RVAAPLL12-002 to facilitate loading and movement of on-road haul trucks (Photograph 4-2). Adjustments to Attachment C - Drawing C-4 were made per FCR-RVAAPLL12-002 to use only the north entrance at Load Line 12 for traffic entrance and exit. The ground surfaces at the equipment movement area and rock construction entrance were leveled. Approximately 5 inches of 2-inch and 4-inch diameter stone were placed in the rock construction entrance. The entrance was monitored and soil was removed, or the stone layer was distributed to ensure the entrance would adequately remove soil from vehicles leaving the site.

In accordance with Field Change Request FCR-RVAAPLL12-002, a gravel layer of 1-inch and 2inch diameter gravel was placed on the existing railroad bed for an access route. Additionally, a 75 ft by 100 ft truck turnaround area was constructed immediately west of the southern portion of the Main Ditch. The truck turnaround area was constructed with a stone base comprised of 2-inch to 4-inch diameter stone topped with 1-inch to 2-inch gravel.



Photograph 4-1. Construction Traffic Route Sign



Photograph 4-2. Installation of Equipment Movement Area

4.2.2.3 Vegetation Clearing

Clearing and grubbing was required to facilitate equipment access and perform the excavation of the dry sediment. The clearing and grubbing consisted mostly of brush removal along the ditch line. In accordance with Field Change Request FCR-RVAAPLL12-002, the Subcontractor removed as few trees as possible to perform the excavation. Most large trees did not require removal, as excavation activities were implemented around the trees. Photograph 4-3 shows brush and vegetation clearing using a skid steer with a mulcher and Photograph 4-4 shows the removal of small trees using a chainsaw. The cleared brush and trees were chipped and spread around the site.



Photograph 4-3. Brush Clearing Using a Skid Steer with Mulcher



Photograph 4-4. Small Tree Removal Using a Chainsaw

4.2.2.4 Storm Water Controls

In accordance with the RD, silt fencing (Photograph 4-5) was installed to prevent siltation from the construction area. Excavation areas were opened at the beginning of each day and covered at the end of each day's activities, where appropriate (Photograph 4-6).

The RD required containerization and characterization of any excavation water that collected in the Main Ditch. Excavation water was defined as water (e.g., rainwater, groundwater) that came in contact with any contaminated areas within the Main Ditch. A 20,000 gallon water storage tank with secondary containment was staged on-site to collect any potential excavation water. Due to the use of best management practices (e.g., covering the excavated area at night, using sawdust to absorb puddles of storm water), no excavation water required containerization during the remedial activities. The water storage tank was never used and was demobilized from the site once the CUG was achieved and confirmed by the laboratory.

All storm water controls were inspected daily during remedial activities and on a weekly basis during the periods of inactivity (e.g., downtime while confirmation samples were being analyzed). When the demobilization occurs, storm water controls will be inspected at least on a bi-weekly basis, or within 24 hours of a rain event (0.5 inches or greater) and every 24 hours during an extended rain event.



Photograph 4-5. Silt Fencing Parallel to Haul Road



Photograph 4-6. Plastic Cover of Main Ditch

4.2.2.5 <u>Dust and Wind Controls</u>

Dust control was generally maintained by keeping traffic on improved roads and maintaining the posted speed limit. Dust generation was monitored visually by the Site Safety and Health Officer (SSHO) (from Toltest, Inc.). Soil moisture content remained sufficiently high during the work such that the area did not require spraying/misting for dust control. Airborne dust was not observed during remedial action activities.

4.2.2.6 Good Housekeeping Practices

Good housekeeping practices were conducted in accordance with Section 5.5 of the RD throughout the remedial action to maintain a clean and orderly work environment. The SAIC Construction Manager regularly inspected the construction site for trash and debris. Identified trash or debris was disposed of accordingly.

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This section summarizes the sediment excavation and disposal activities conducted during this remedial action.

5.1 SEDIMENT REMOVAL ACTIVITIES

Due to inclement weather, sediment removal activities were postponed after site preparation activities. Sediment removal activities began on June 7, 2010 and were completed on June 18, 2010. During the dry sediment removal activities, a total of 1,212 tons of nonhazardous material was transported and disposed at the Waste Management American Landfill in Waynesburg, Ohio. Of the 1,212 tons of nonhazardous material, 1,181 tons consisted of contaminated sediment removed from the Main Ditch and an estimated 31 tons (175 cubic yards) consisted of inert absorbent material (sawdust) used to mix with the sediment during excavation and loading activities. The following sections describe the sediment removal activities in further detail.

5.1.1 Application of an Absorbent Material

At the onset of the remedial activities, the sediment in the Main Ditch was deemed too wet to readily transport and dispose. Consequently, an estimated 31 tons (175 cubic yards) of inert absorbent material (sawdust generated from untreated lumber) was obtained from an approved off-site source and mixed with the dry sediment. This process ensured excavated material would not release liquid while in transport and the material would pass the disposal facility's paint filter test. Photograph 5-1 shows the presence of intermittent standing water in the southernmost portion of the Main Ditch. Photograph 5-2 shows the mixing of sawdust with the dry sediment.



Photograph 5-1. Intermittent Standing Water at Southernmost Portion of Main Ditch



Photograph 5-2. Mixing of Absorbent Material in Main Ditch

5.1.2 Truck Loading and Transportation

All excavated material was loaded directly into haul trucks for transport to a licensed disposal facility. During the loading process, haul trucks were positioned over plastic sheeting to contain any contaminated dry sediment spilled during load-out. Prior to exiting the loading zone, the exterior of the trucks were inspected to ensure no contaminated dry sediment was present on the exterior of the truck bed. Any dry sediment on the exterior of the truck was brushed off and captured prior to the truck pulling out of the loading area. All trucks were covered prior to leaving the construction site. All nonhazardous material was transported to and disposed as nonhazardous waste in accordance with the waste profile at the Waste Management American Landfill in Waynesburg, Ohio. Photograph 5-3 shows the loading of contaminated sediment into a haul truck. Additionally, Photograph 5-4 shows the ditch line as the final removal is taking place and the ditch line is being shaped.



Photograph 5-3. Loading Excavated Material into Haul Trucks Sediment



Photograph 5-4. Final Removal of Contaminated Sediment and Shaping of the Ditch Line

5.1.3 Equipment Decontamination

Excavation equipment that contacted contaminated sediment was decontaminated prior to contacting other materials. Additionally, the excavation equipment was decontaminated prior to removal from the work site. Limited amounts of potable water (i.e., less than 30 gallons) was used for decontamination activities performed over haul trucks. Toltest, Inc. ensured free water was not present in the haul truck and that no liquids escaped the truck bed. Decontamination liquids did not change the chemical profile of the waste (i.e., addition of solvents or pH). The decontaminated equipment was air dried.

5.2 CONFIRMATION SAMPLING

At completion of the excavation activities, three confirmatory MI samples were collected from the excavation footprint and analyzed in accordance with Section 7.0 of the RD at locations L12-256M, L12-257M, and L12-258M. One field duplicate sample was collected at location L12-257M. The confirmation sample results showed the remedial activities attained the CUG for arsenic. Photograph

5-5 shows the sediment sampling activities at location L12-265M and Photograph 5-6 shows a stainless steel bowl containing the aliquots from one MI sample. All confirmation soil sampling results are presented in Appendix B.



Photograph 5-5. Multi-Increment Sample Collection in L12-256M



Photograph 5-6. Extracted Aliquots for Multi-Increment Sample

Samples L12sd-256M-0913-SD, L12sd-257M-0916-SD, L12sd-258M-0919-SD, and L12sd-257M-0922-FD (field duplicate) were dried, sieved, and ground finely by TestAmerica Laboratories, Inc. (located in North Canton, Ohio) and were analyzed for total arsenic. The results were compared against the National Guard Trainee CUG for Load Line 12 (31 mg/kg). The confirmation soil sample results are summarized in Table 5-1 and in Appendix B.

Table 5-1.	Confirmation	Sample Results	

Multi-		Arsenic Concentration		Lab Result	
increment				below	
Sample		Laboratory	Cleanup	Cleanup	
Location	Sample ID	Result	Goal	Goal?	Notes
L12-256M	L12sd-256M-0913-SD	20.7 mg/kg E	31 mg/kg	Yes	Matrix interference in lab
					result. Data is considered
					estimated but usable.
L12-257M	L12sd-257M-0916-SD	12.9 mg/kg	31 mg/kg	Yes	None
L12-257M	L12sd-257M-0922-FD	14.7 mg/kg	31 mg/kg	Yes	Duplicate sample of
					L12sd-257M-0916-SD
L12-258M	L12sd-258M-0919-SD	12.7 mg/kg	31 mg/kg	Yes	None

The laboratory results indicate arsenic concentrations are below the remedial action CUG for Load Line 12. Therefore, no additional removal was required. Figure 5-1 shows the plan and profile view of the excavated area at Load Line 12.

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Figure 5-1. Load Line 12 Final Excavation (Plan and Profile View)

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The following sections describe the site restoration activities to be performed in accordance with Section 8.0 of the RD.

6.1 BACKFILL SOURCE PILE

On October 9, 2009, a plot of land at Route 5 Sand and Gravel in Ravenna, Ohio for use as a backfill source was sampled and analyzed for the parameters specified in Table 8-1 of the RD. Results of the characterization sample were submitted to Ohio EPA to determine if the soil was suitable backfill material for remedial actions. This backfill source was used during the remedial action at the Fuze and Booster Quarry Landfill/Ponds. The analytical data and letter from Ohio EPA granting approval of this plot of land is found in the *Remedial Action Report for the Fuze and Booster Quarry Landfill/Ponds* (USACE 2010). A letter to Ohio EPA documenting approval of this soil source during the Load Line 12 remedial action is in Appendix A.

6.2 BACKFILLING OF THE MAIN DITCH

The excavation footprint of the Main Ditch at Load Line 12 was backfilled and graded to match the existing drainage pattern and neighboring and/or original elevations. During restoration, the side walls of the Main Ditch were sloped and an estimated 280 tons of backfill from the borrow source was incorporated to restore the grade and slope of the base of the ditch. The backfill material was graded and compacted. Placement of backfill in the Main Ditch is shown in Photograph 6-1.

Once the base of the ditch was brought to the original grade, one course of rip rap was placed at the bottom of the ditch to prevent erosion. Placement of the rip rap in the Main Ditch is shown in Photograph 6-2.

The Subcontractor installed a straw check dam downstream of the excavation footprint to prevent sediment transport to downgradient wetlands. The check dam will remain in place until vegetation coverage on the sidewalls of the Main Ditch is at least 70 percent established.






Photograph 6-2. Placement of Rip Rap in Main Ditch for Restoration

6.3 DISPOSITION OF PLACED STONE

All placed stoned used for construction of the rock construction entrance and truck turnaround area and stone placed on the former railroad bed for access improvements was left in place, as approved by the U.S. Army.

6.4 **Re-Vegetation and Removal of Erosion Controls**

Re-vegetation and re-seeding of the Main Ditch and disturbed construction support areas took place during the week of July 12, 2010. Re-seeding the areas was performed with prescribed seed mixtures detailed in Tables 8-3 and 8-4 of the RD. At the time of submission of the RAR, SAIC will continue to perform bi-weekly inspections of the site and the silt fencing to ensure the storm water controls are intact. Once vegetation is established to 70 percent coverage, the silt fencing and other storm water controls will be removed and disposed.

7.0 CONCLUSIONS

The selected remedy for soil and dry sediment at Load Line 12, as documented in the *Record of Decision (ROD) for Soil and Dry Sediment at the RVAAP-12 Load Line 12* (USACE 2009a), was to excavate contaminated dry sediment within the Main Ditch aggregate to achieve an arsenic CUG of 31 mg/kg for the most reasonably anticipated land use (National Guard Trainee). The remedial action described within this RAR attained the remedial action CUG and RAO established in the Load Line 12 ROD.

The RAO to prevent dispersal of contaminants and ensure underlying soil meets the lowest risk-based CUG for the exposure scenarios evaluated in the RI was achieved by the remedial action. Table 7-1 presents the removal totals from the Main Ditch at Load Line 12.

Table 7-1.	Main l	Ditch	Removal	Quantity
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Location	Total Waste Volume (tons)
Load Line 12 Main Ditch (Nonhazardous Waste)	1,181

Table 7-2 presents the final confirmation soil sampling results for the Main Ditch at Load Line 12.

	Confirmation Soil Sample Results	Confirmation Sample Result
MI Sample Area	(Arsenic Concentration)	Below Cleanup Goal? ^a
L12-256M	20.7 mg/kg E	Yes
L12-257M	12.9 mg/kg	Yes
L12-258M	12.7 mg/kg	Yes
L12-259M	21.1 mg/kg	Yes

 Table 7-2.
 Confirmation Soil Sample Results

^aRemedial action cleanup goal for arsenic in dry sediment is 31 mg/kg.

E = Matrix interference. The result is considered estimated, but usable.

By achieving the remedial action CUG, residual contaminant levels in soil beneath the Main Ditch at Load Line 12 are below the Ohio EPA risk benchmark (10E-5) and within the range of values observed in surrounding soil at Load Line 12.

This remedial action achieved objectives to allow for land use by the National Guard Trainee, with implementation of land use controls (as stated in Attachment E of the RD) and CERCLA five-year reviews. Other media (e.g., surface water, wet sediment, and groundwater) and MEC will be addressed as part of future actions.

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- Engineering-Environmental Management, Inc (E2M) 2008. Site Inspection Report for Munitions Response Sites under the Military Munitions Response Program. May 2008.
- EnviroScience, Inc. 2008. The Wetlands and Other Waters Delineation Report for the Remedial Actions at Ramsdell Quarry Landfill, Load Line 12, and Fuze and Booster Quarry Landfill/Ponds at the Ravenna Army Ammunition Plant/Ravenna Training and Logistics Site. December 2008.
- Ohio Environmental Protection Agency (Ohio EPA) 2004. Director's Final Findings and Orders in the matter of U.S. Department of the Army, Ravenna Army Ammunitions Plant. June 2004.
- USACE (U.S. Army Corps of Engineers) 1998. Phase I Remedial Investigation Report for High-Priority Areas of Concern at the Ravenna Army Ammunition Plant, Ravenna, Ohio, DACA62-94-D-0029, DO Nos. 0010 and 0022. February 1998.
- USACE 2001a. Facility-Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant, Ravenna, Ohio. March 2001.
- USACE 2001b. Facility-Wide Safety and Health Plan for Environmental Investigations at the Ravenna Army Ammunition Plant, Ravenna, Ohio. March 2001.
- USACE 2004. Phase II Remedial Investigation Report for Load Line 12 (RVAAP-12) at the Ravenna Army Ammunition Plant, Ravenna, Ohio, March 2004.
- USACE 2005. Phase II Remedial Investigation Supplemental Report for Load Line 12 (RVAAP-12) at the Ravenna Army Ammunition Plant, Ravenna, Ohio. November 2005.
- USACE 2006. Feasibility Study for Load Line 12 (RVAAP-12) at the Ravenna Army Ammunition Plant, Ravenna, Ohio. July 2006.
- USACE 2007. Proposed Plan for Soil and Dry Sediment at Load Line 12 (RVAAP-12) at the Ravenna Army Ammunition Plant, Ravenna, Ohio. March 2007.
- USACE 2009a. Record of Decision for Soil and Dry Sediment at the RVAAP-12 Load Line 12 at the Ravenna Army Ammunition Plant, Ravenna, Ohio. March 2009.
- USACE 2009b. Remedial Design for the RVAAP-12 Load Line 12 at the Ravenna Army Ammunition Plant in Ravenna, Ohio. October 2009.

- USACE 2010. Remedial Action Report for the RVAAP-16 Fuze and Booster Quarry Landfill/Ponds at the Ravenna Army Ammunition Plant in Ravenna, Ohio. March 2010.
- USACHPPM (U.S. Army Center for Health Promotion and Preventive Medicine) 1996. Hazardous and Medical Waste Study No. 37-EF-5360-97, Relative Risk Site Evaluation (RRSE), RVAAP, Ravenna, Ohio, 28 October – 1 November 1996, Volume 1. October 1996.

Appendix A Permits, Notifications, and Approvals

Appendix A-1.	United States Fish and Wildlife Service Concurrence Letter
Appendix A-2.	Ohio Historic Preservation Office Concurrence Letter
Appendix A-3.	Approval for Coverage under Ohio EPA General Permit OHC000003
Appendix A-4.	Portage Soil and Water Conservation District Approval
Appendix A-5.	USACE-Pittsburgh District Confirmation of Preconstruction Notification to Operate Under Nationwide Permit #38
Appendix A-6.	Utility Clearance Communication Summary
Appendix A-7.	Ohio EPA Approval of Backfill Source

Appendix A-1. United States Fish and Wildlife Service Concurrence Letter



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services 4625 Morse Road, Suite 104 Columbus, Ohio 43230 (614) 416-8993 / FAX (614) 416-8994

October 20, 2009

Tails: 31420-2009-TA-1199 31420-2010-FA-0628

Jed Thomas Deputy Project Manager SAIC Engineering of Ohio, Inc. 8866 Commons Blvd. Twinsburg, OH 44087

Re: Response to Request for Determination of a Remedial Action Conducted at Load Line 12 within the Ravenna Army Ammunition Plant/Camp Ravenna

Dear Mr. Thomas:

We have received your recent correspondence requesting information about the subject proposal. There are no Federal wilderness areas, wildlife refuges or designated critical habitat within the vicinity of the project area. Based on the information you have provided, at this time we have no objection to the proposed project.

ENDANGERED SPECIES COMMENTS: Due to the project type, size, and location, we do not anticipate any impact on federally listed endangered, threatened, or candidate species, or their habitats. Should the project design change, or during the term of this action, additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, consultation with the Service should be initiated to assess any potential impacts.

If you have additional questions or require further assistance with your project proposal, please contact me at the following number (614) 416-8993 x12. I would be happy to discuss the project in further detail with you and provide additional assistance if necessary. In addition, you can find more information on natural resources in Ohio by visiting our homepage at: http://www.fws.gov/midwest/ohio.

Sincerely,

Migm Supmon

Mary Knapp, Ph.D. Field Supervisor

Appendix A-2. Ohio Historic Preservation Office Concurrence Letter



November 4, 2009

Jed Thomas Science Applications International Corporation 8866 Commons Boulevard Twinsburg, OH 44087

Re: Remedial Action at Load Line 12 Camp Ravenna, Portage County, Ohio

Dear Mr. Thomas,

This is in response to correspondence from your office dated October 6, 2009 (received October 7) regarding the above referenced project. The comments of the Ohio Historic Preservation Office (OHPO) are submitted in accordance with provisions of the National Historic Preservation Act of 1966, as amended (16 U.S.C. 470 [36 CFR 800]).

The project involves removal of contaminated sediment from a drainage ditch that extends through the Load Line 12 area. The Load Line is a part of Camp Ravenna and a contributing element to the significance of the facility. This Load Line played an integral role in the assembly of ordnance. In our opinion, the removal of sediment doesn't have to potential to diminish significant qualities of the Load Line. We agree with your assessment that no archaeological survey is necessary for this project. Based on the information presented in the correspondence we concur with your finding that there will be no historic properties affected by the proposed project. No further coordination with this office is necessary for this project unless there is a change in the scope of work. In addition, if new or additional properties or effects are discovered, this office should be notified [36 CFR 800.13].

Any questions concerning this matter should be addressed to David Snyder at (614) 298-2000, between the hours of 8 am. to 5 pm. Thank you for your cooperation.

Sincerely,

Daniel Sugder

David Snyder, Ph.D., Archaeology Reviews Manager Resource Protection and Review

DMS/ds (OHPO ID 2009-POR-8755; Log Number 1028641)

OHIO HISTORICAL SOCIETY Ohio Historic Preservation Office

1982 Velma Avenue, Columbus, Ohio 43211-2497 ph: 614.298.2000 fx: 614.298.2037 www.ohiohistory.org Appendix A-3. Approval for Coverage under Ohio EPA General Permit OHC000003

			ChieEPA		
			State of Ohio Environmental Protection Ag	jency	
	STREET ADDRESS:				MAILING ADDRESS:
	Lazarus Government Center 50 W. Town St., Suite 700 Columbus, Ohio 43215		TELE: (614) 644-3020 FAX: (614) 644-3184 www.epa.state.oh.us	Colum	P.O. Box 1049 abus, OH 43216-1049
	TOLTEST INC BRIAN MORGAN 508 W ELNORA ODON	IN	47562	х.	1/7/2010
	Dear Applicant:	SOCIATED WITH	CONSTRUCTION ACTIVITY.		den alexan
	referenced general perm	lit for:	ency has received a Notice of Inten		ne above
	Facility Street / Locatio				
5	County: Portage	M. 0401 SIX (_* 2.°	· *
	City(ies) and Township	(s) RAVENN	A : PARIS		
	Ohio EPA Facility Perm		3GC04760*AG		
	(CGP). Please use your yourself with your permit	Ohio EPA faci	e under the above referenced Ohio lity permit number in all future corru- ontains requirements and prohibitio wal general permit is issued and O	espondences. Please familia ons with which you must com	rize ply.

Be aware that if more than one operator, as defined in the permit, will be engaged at a site, each operator shall seek coverage under the general permit. One operator shall submit an NOI and the additional operator(s) shall submit a Co-permittee NOI. Co-Permittees are covered under the same facility permit number. There is no fee associated with the Co-permittee NOI form.

instructing you to request continuing permit coverage.

Please be aware that this letter only authorizes discharges in accordance with the above referenced Storm Water Construction General Permit. The placement of fill into regulated waters of the state may require a 401 Water Quality Certification and/or Isolated Wetlands Permit from Ohio EPA. For further information on the 401/Isolated Wetlands Program please contact Mr. Jeff Boyles at: (614)644-2012 or at: Jeffrey.Boyles@epa.state.oh.us Also a Permit-To-Install (PTI) is required for the construction of sanitary or industrial wastewater collection, conveyance, storage, treatment, or disposal facility, unless a specific exemption by rule exists. For more information on the PTI Program please contact the appropriate Division of Surface Water district office (the district within which the project is to be constructed) staff. Failure to obtain the required permits in advance is a violation of Ohio Revise Code 6111 and potentially subjects you to enforcement and civil penalities.

> Ted Strickland, Governor Lee Fisher, Lieutenant Governor Chris Korleski, Director Ohio EPA is an Equal Opportunity Employer

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You may obtain additional information, copies of general permits and current forms/instructions from our web site at: <u>http://www.epa.ohio.gov/dsw/storm/stormform.aspx</u>

If you have any further questions, you should contact one of the following: OHC000003 (Statewide CGP) Mike Joseph (614) 752-0782 michael.joseph@epa.state.oh.us

OHCD00001 (Big Darby CGP) and OHCO00001 (Olentangy Permit) Jason Fyffe (614) 728-1793 jason.fyffe@epa.state.oh.us

Or by calling (614) 644-2001 and asking to speak with a member of the Storm Water Unit

Since Chris Korleski

Director

CC: D BOGOEVSKI

Appendix A-4. Portage Soil and Water Conservation District Approval



Portage Soil and Water Conservation District 5970 ST. RT. 88 • RAVENNA, OHIO 44266 PHONE: (330) 297-7633 • FAX: (330) 296-5917



January 7, 2010

Mr. Jed Thomas SAIC Engineering of Ohio, Inc. 8866 Commons Boulevard, Suite 201 Twinsburg, Ohio 440087

Mr. Jed Thomas

I have reviewed and approved the SWP3 for Load Line 12 remedial action at the Ravenna Army Ammunitions Plant.

Please contact me to schedule an inspection when construction is underway.

If you should have any concerns please contact me at 330-297-7633 ext 112.

Thank you,

Ja. Burn

James A. Bierlair District Coordinator Portage SWCD

Appendix A-5. USACE-Pittsburgh District Confirmation of Preconstruction Notification to Operate Under Nationwide Permit #38

Thomas, Jed H.

From:	Rutledge, Tia L.
Sent:	Monday, November 16, 2009 9:48 AM
To:	Thomas, Jed H.
Subject:	FW: PCN for Ravenna Army Arsenal Plant - Load Line 12 Dry Sediment Removal

Jed -

We are good to go with the removal action at LL12 per Mr. Cornelius.

-----Original Message-----From: Cornelius, James J LRP [mailto:James.J.Cornelius@usace.army.mil] Sent: Monday, November 16, 2009 9:46 AM To: Rutledge, Tia L. Subject: RE: PCN for Ravenna Army Arsenal Plant - Load Line 12 Dry Sediment Removal

Tia,

Good to hear from you. You don't need any authorization from us. The only requirement for a CERCLA activity under a Nationwide 38 is that we are to be provided with a PCN, which you have done.

Thanks,

Jeff

----Original Message-----From: Rutledge, Tia L. [mailto:TIA.L.RUTLEDGE@saic.com] Sent: Monday, November 16, 2009 9:02 AM To: Cornelius, James J LRP Cc: Thomas, Jed H. Subject: PCN for Ravenna Army Arsenal Plant - Load Line 12 Dry Sediment Removal

Good morning Mr. Cornelius,

SAIC submitted the Final Remedial Design for the LL12 AOC on 1 Oct 09 to meet the PCN requirement under the Nation Wide Permit 38. To date we have not received an authorization letter from your office. Could you please provide us status as to when we may expect authorization? We would like to start the Remedial Action later this month; do we need the authorization letter to start?

Thank you for your assistance,

Tia

Appendix A-6. Utility Clearance Communication Summary

Thomas, Jed H.

From:	Mcgee, James D Mr CTR OSD OSA USA [jim.d.mcgee@us.army.mil]
Sent:	Tuesday, December 22, 2009 2:36 PM
To:	Thomas, Jed H.
Cc:	Mark Patterson
Subject:	RE: Load Line 12 Remedial Action ~ Utility Clearance

Jed:

I think you have adequately summarized our conversation of this morning. I have just one thing to add. Please inspect the energized overhead lines that run through the east side of LL-12 to insure that no lines travel down any utility pole into the ground. If present, this type of line could be struck when excavation is in progress. It is possible that one of these underground electric lines could have been used to service one of the demolished buildings.

Always assume that every electric line is energized until you can prove that it is not.

Jim McGee

From: Thomas, Jed H. [mailto:JED.H.THOMAS@saic.com] Sent: Tuesday, December 22, 2009 2:19 PM To: Jim McGee Cc: Rutledge, Tia L. Subject: Load Line 12 Remedial Action ~ Utility Clearance

Jim -

To summarize our conversation regarding utilities in the Load Line 12 Remedial Action Construction area, please see the bullets below:

- SAIC intends to only excavate the surface of the Main Ditch running through Load Line 12.
- The electrical lines paralleling the ditch, on the east side of the ditch are active. Caution will need to be taken when using an excavator and when felling trees.
- You recommended a site recon to ensure there were no wires hanging from the active electrical lines.
 RVAAP and OHARNG do not have plans for any phone lines that may be running subsurface at Load Line 12.
- There is no need to repair any of those lines if they are cut during remedial activities. - Mark Patterson noted that there may be some waterlines that have water pressure. There were historical
 - encounters of those water lines at approximately 3 to 4 feet below ground surface. SAIC noted the following:
 A field recon will be conducted to identify stick ups that may show where waterlines are located.
 - Excavation activities will be conducted slowly and cautiously in effort to avoid damaging these waterlines.

Please let me know if this summarizes our conversation or if there is anything else to add.

Thank you, Jed

Jed Thomas, P.E. | SAIC Environmental Engineer | Energy, Environment & Infrastructure Business Unit (E2IBU) phone: 330.405.5802 | fax 330.405.9811 email: jed.h.thomas@saic.com

Please consider the environment before printing this email.

Appendix A-7. Ohio EPA Approval of Backfill Source

Thomas, Jed H.

From:	prvs=0768168309=todd.fisher@epa.state.oh.us on behalf of Todd Fisher
	[todd.fisher@epa.state.oh.us]
Sent:	Tuesday, June 01, 2010 3:01 PM
To:	Eileen Mohr; Thomas, Jed H.
Cc:	Todd Fisher; Sprinzl, Richard E.; Thomas M LRL Chanda
Subject:	Re: SAIC Backfill Source ~ RQL and Load Line 12 Remedial Actions

Jed,

It is acceptable to use the backfill material from the same pile that was used during the FBQ RA. Anything over 4,000 cubic yards will require an additional sample(s).

If you have any questions, please give me a call.

Thanks,

Todd

Todd R. Fisher Project Coordinator Ohio Environmental Protection Agency Division of Emergency and Remedial Response 2110 East Aurora Rd. Twinsburg, OH 44087

Work: (330) 963-1148 RVAAP Field Office: (330) 548-3860 Cell: (330) 389-0521 FAX: (330) 487-0769 email address: <u>Todd.Fisher@epa.state.oh.us</u>

>>> "Thomas, Jed H." <<u>JED.H.THOMAS@saic.com</u>> Thursday, May 27, 2010 2:29 PM >>> Todd and Eileen -

With respect to backfilling areas at RQL and Load Line 12, we plan to use the same backfill source that we used during the Fuze and Booster Quarry Landfill/Ponds Remedial Action. This is the same soil pile that was sampled at the Route 5 Sand and Gravel and subsequently approved in the e-mail below.

As stated in the *Final Remedial Action Report for the RVAAP-16 Fuze and Booster Quarry Landfill/Ponds*, we used 55 cubic yards of this soil during the FBQ Remedial Action. Per Ohio EPA guidance, we are required to sample every 4,000 cubic yards of backfill soil used. At this point, we do not anticipate that we will exceed a total of 4,000 cubic yards of backfill soil between the three remedial actions. If it is determined in the field that our total backfill will exceed 4,000 cubic yards, we will identify another source and have it sampled for approval.

Please let me know if it is acceptable to use this same backfill source for the RQL and Load Line 12 Remedial Actions up to 4,000 cubic yards.

Thank you, Jed

From: prvs=0564c9aba9=todd.fisher@epa.state.oh.us [mailto:prvs=0564c9aba9=todd.fisher@epa.state.oh.us] On Behalf Of Todd Fisher Sent: Monday, November 09, 2009 12:32 PM To: Eileen Mohr; Thomas, Jed H. Cc: Thomas M LRL Chanda Subject: Re: SAIC Backfill Source ~ Sampling Results

Jed,

I looked over the laboratory results and conclude that the backfill source is acceptable for use with FBQ Remedial Action activities.

Thanks,

Todd

Todd R. Fisher Project Coordinator Ohio Environmental Protection Agency Division of Emergency and Remedial Response 2110 East Aurora Rd. Twinsburg, OH 44087

Work: (330) 963-1148 Cell: (330) 389-0521 FAX: (330) 487-0769 email address: <u>Todd.Fisher@epa.state.oh.us</u>

>>> "Thomas, Jed H." <<u>JED.H.THOMAS@saic.com</u>> Monday, November 09, 2009 12:16 PM >>> Todd and Eileen -

Attached are the sample results for the backfill source at Route 5 Sand and Gravel. The sample collected was Sample ID FBQ-QC-0519-QC. The data summary incorrectly list it as FB2-QC-0519-QC. I will ensure they correct this. Basically, the results are as follows:

- 1) All the inorganic concentrations were below the RVAAP surface or subsurface background values; and
- 2) The VOCs, SVOCs, Pesticides, PCBs, Explosives, and Propellants concentrations were either nondetectable or the lab estimated a concentration below the laboratory reporting levels (RLs).

Please let me know if you approve our use of this source for the FBQ Remedial Action. If you can let me know ASAP, I would appreciate it as we are currently mobilizing for the restoration activities.

At this point, we will use minimal quantities of this source at FBQ. If approved, we will use it at LL12 and RQL as well. We have the area staked off and Route 5 Sand and Gravel agreed to reserve the area for our future use.

Thank you, Jed

Jed Thomas, P.E. | SAIC Environmental Engineer | Energy, Environment & Infrastructure Business Unit (E2IBU) phone: 330.405.5802 | fax 330.405.9811 email: <u>ied.h.thomas@saic.com</u>

Please consider the environment before printing this email.

Ohio Environmental Protection Agency This communication and any response to it may constitute a public record and

thus may be publicly available to anyone who requests it.

Appendix B Laboratory Analytical Results

Science Applications International Corp

Client Sample ID: L12SD-256M-0913-SD

TOTAL Metals

Lot-Sample #...: A0F150539-001 Matrix....: SE Date Sampled...: 06/14/10 15:30 Date Received..: 06/15/10 % Moisture....: 2.7 REPORTING PREPARATION- WORK PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER # Prep Batch #...: 0172114 06/21-06/22/10 L2X3H1AC 20.7 E SW846 6020 Arsenic 0.51 mg/kg Dilution Factor: 1 Analysis Time..: 10:50 Analyst ID....: 000079 Instrument ID..: 18 MDL.....: 0.054

NOTE (S):

Results and reporting limits have been adjusted for dry weight. E Matrix interference.

North Canton

151 Lafayette Drive, Oak Ridge, Ten	nessee 37831(865) .	481-4600		C	HA	IN O	F CU	STC	DDY	RE	COF	SD						C NO.: RV		
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Science Applications International Corp

Client Sample ID: L12SD-257M-0916-SD

TOTAL Metals

		3-001 10:30 Date R	eceived.	.: 06/17/10	Matrix:	SE
PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #	: 0172114					
Arsenic	12.9	0.51	mg/kg	SW846 6020	06/21-06/22/10	L22661AC
		Dilution Facto	r: 1	Analysis Time: 11:15	Analyst ID	: 000079
		Instrument ID.	· T9	MDL 0.054		

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

North Canton

Science Applications International Corp

Client Sample ID: L12SD-257M-0922-FD

TOTAL Metals

		3-002 10:30 Date R	eceived.	.: 06/17/10	Matrix:	SE
PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK <u>order #</u>
Prep Batch #	: 0172114					
Arsenic	14.7	0.51	mg/kg	SW846 6020	06/21-06/22/10	L227F1AC
		Dilution Facto	or: 1	Analysis Time: 11:19	Analyst ID	: 000079
		Instrument ID.		MDL 0.054		

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

North Canton

151 Lafayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600					CHA		OFC	US	IOL	N R	COF	εD.				C					
PROJECT NAME: RVAAP -	Load Line 12			h		Π		REC		TED P/	BAME	TERS			Π	Τ	LABORATOR' TestAmerica	Y NAME:			
PROJECT NUMBER: 399.00.06119.00.3267.01.112 PROJECT MANAGER: Jed Thomas 330-405-5802 Sampler (Signature) (Printed Name) Ramal RichSprimal															s/ Vials:	LABORATOR' 4101 Shuffel S North Canton, Attn: Mark Loc	Street NW Ohio 44720				
			ic												Bottle		30-966-9387]			
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Science Applications International Corp

Client Sample ID: L12SD-258M-0919-SD

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #	: 0172114					
Arsenic	12.7	0.51	mg/kg	SW846 6020	06/21-06/22/10	L25KL1AC
		Dilution Facto	or: 1	Analysis Time: 11:24	Analyst ID	: 000079
		Instrument ID.		MDL 0.053		

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

North Canton

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Appendix C Field Change Request Forms

FIELD CHANGE REQUEST (FCR)

FCR NOFCR-RVAAPLL12-001 PROJECT Load Line 12 Remedial Action CONTRACT NO. GSA Contract No. GS-10F-0076J Delivery Ord	DATE INITIATED 01/08/10 er No. W912QR-05-F-0033
REQUESTOR IDENTIFICATION NAME Jed Thomas ORGANIZATION SAIC PHONE	330-405-5802
TITLE SAIC Construction Manager SIGNATURE	-there -
BASELINE IDENTIFICATION	14 F 1
BASELINE(S) AFFECTED Cost Scope Milestone AFFECTED DOCUMENT (TITLE, NUMBER AND SECTION) Final Remedial Design for the RVAAP-12 Load Line 12 DESCRIPTION OF CHANGE: SAIC would like approval of a field change to have a portable wal needed" basis, as opposed to having one brought on site as a fire evidenced by the remedial action at the Fuze and Booster Quarty may not be needed as "Excavation Water" may not be generated Line 12 has not had standing water since a downstream beaver of within the ditch is saturated, a drying agent (e.g., sawdust or woo trucks are not leaking free liquids. In the event that Excavation Water requires management and con (Toltest) indicated they can have a water storage tank brought to Specific to the design, this change impacts the statement in Draw maintained at the designated equipment staging area with second	ter tank stored at Load Line 12 on an "as id mobilization/set up activity. As y Landfill/Ponds, a portable water tank . Additionally, the Main Ditch at Load dam was removed. If the sediment id chips) may be used to ensure haul intainerizing, the remedial subcontractor. The site the day it is needed. ving C-4, Note 8; "The tank shall be
JUSTIFICATION: Excavation Water did not require containerization during the Fuze action. The cost and effort of having a water storage tank onsite was not justified.	e and Booster Quarry/Landfill remedial throughout the duration of the project
IMPACT OF NOT IMPLEMENTING REQUEST:	
Costs will be incurred by SAIC for a storage tank that may not be saved at the onset of the project if Excavation Water does not reg storage tank is not required.	used/required. Time and effort will be uire containerizing and, consequently, a
PARTICIPANTS AFFECTED BY IMPLEMENTING REQUEST: SAIC Construction Manager and Remedial Subcontractor	
COST ESTIMATE (\$) _0_ ESTIMATOR SIGNATURE PHONE <u>NA</u> DATE <u>N</u>	No cost impact to USACE
PREVIOUS FCR AFFECTED I YES INO; IF YES, FCR NO.	
OHIO EPA PROJECT MANAGER Vold Man	DATE 1/11/2010
AREA TO A THE ADDRESS OF A SECOND STREET AND A	

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FIELD CHANGE REQUEST (FCR)

FCR NOFCR-RVAAPLL12-002 DATE INITIATED _01/25/10 PROJECT Load Line 12 Remedial Action CONTRACT NO. GSA Contract No. GS-10F-0076J Delivery Order No. W912QR-05-F-0033
REQUESTOR IDENTIFICATION NAME Jed Thomas ORGANIZATION SAIC PHONE 330-405-5802
TITLE SAIC Construction Manager SIGNATURE
BASELINE IDENTIFICATION
BASELINE(S) AFFECTED Cost Scope Milestone Method of Accomplishment AFFECTED DOCUMENT (TITLE, NUMBER AND SECTION) Final Remedial Design for the RVAAP-12 Load Line 12 DESCRIPTION OF CHANGE: SAIC would like approval 4 changes regarding the Load Line 12 Remedial Action. These changes were discussed in principle during a January 20, 2010 site walkover with Mark Patterson, Eileen Mohr, and Todd Fisher. The changes are as follows;
1) SAIC would like to use the soil that was sampled (and approved) at the Route 5 Sand and Gravel as the downstream water tight barrier discussed in Section 5.3.1.1 of the RD and presented on Drawing C-4. The soil has a clayey component that will compact well and ensure Excavation Water does not proceed downstream of the excavation area. The soil dam will be placed immediately downstream (north) of the northern most removal area (MI area L12-258M). The soil from the dam will be used to help re-grade the ditch during site restoration.
2) SAIC would like to change the site set up and traffic pattern to compensate for saturated conditions at the southern portion of Load Line 12. SAIC would like to prepare the site so the haul trucks will use the north entrance for both an entrance and an exit. SAIC will use approximately 5 inches of 1°-2° gravel to enhance the base of the existing railroad bed. Additionally, SAIC will use a 2°-4° stone base with a 1°-2° gravel cover to construct a truck turnaround area to the south of the former location of Bldg F-19. The same combination of stone will be used as needed to enhance areas to provide truck access to the Former Railroad Bed. As agreed with Mark Patterson, all stone will remain in place after remedial activities. Alterations to the site set up and the traffic pattern can be seen in the revised Drawings C-4 and C-6.
 3) As requested by Ohio EPA, the excavation of ditch sidewalls will be performed by removing as few trees as practical. Currently, the excavation extents presented in Drawing C-5 presents removal up the ditch wall which would require removal of trees within that extent. Ohio EPA requests the excavation focuses on the bottom of the ditch. Ohio EPA stated that sidewall excavation can take place around the existing trees on the ditch walls, as opposed to removing those trees. The excavator will carefully scrap around trees taking root in the sidewalls and the only trees that will be removed from the sidewalls will be those that interfere with excavator movement and access. The bottom of the ditch will proceed as designed and trees/vegetation at the bottom of the ditch will be removed. 4) Ohio EPA approved the use of clean sawdust (generated from untreated wood) to be used as a drying agent by mixing with the saturated sediment/soil. The sawdust will be used to ensure the excavated sediment/soil does not have free liquids when it is loaded to the haul trucks and ultimately disposed at the landfill.
JUSTIFICATION:
Justification for each of the requests are presented above.
IMPACT OF NOT IMPLEMENTING REQUEST:
The impacts are as follows (in accordance with the requests above);

FIELD CHANGE REQUEST (FCR)

 The clayey soil will provide a proper management. Additional activities. Therefore, the waste of 	y, the material used	for the dam will be a	remains in the excavated area for utilized for restoration and backfill ted
 There is a significant amount considerable cost and effort requisituck in ruts and mud. Focusing effort, cost, and maintenance required. 	ired to ensure haul t the haul road to the	rucks will be able to northern portion of	Load Line 12 will reduce the
3) Trees existing in the sidewalls or disposal.	of the Main Ditch w	ill remain in place a	nd will not require management
4) The use of the drying agent w and will ensure the landfill will acc implementation of the remedial a	cept the disposed ma	aterial. If a drying a	gent is not able to be used.
PARTICIPANTS AFFECTED BY SAIC Construction Manager and			
	ESTIMATOR SIGNA PHONE <u>NA</u>	TURE <u>No cos</u> DATE <u>NA</u>	t impact to USACE
PREVIOUS FCR AFFECTED	YES NO; IF YE	S, FCR NO.	
USACE COTR	Matheniel.		DATE ZC JAN 2010
OHIO EPA PROJECT MANAGE	2 Val	Jushi	DATE 01/26/2010
SAIC H&S MANGER SIGNATURE (I	APPLICABLE)	NA	DATE NA
10			

Appendix D Waste Manifests

RVAAP Load Line 12 Remedial Action Manifest Log

Disposal Date	Type of Waste	Source/ Location	Date of Generation	Transporter	Truck License No.	Disposal Facility	Waste Profile No.	Manifest Document No.	Facility Quantity (tons)	Copy of manifest leaving site (Y/N)	Signed Manifest Rec'd (Y/N)	Signed Manifest to Regs (Y/N)	Notes
6/10/2010	Nonhaz	Load Line 12	6/10/2010	R&J Trucking	PFY3479	American Landfill	109527OH	31691	25.22	Y	Y	Y	None
6/10/2010	Nonhaz	Load Line 12	6/10/2010	R&J Trucking	PFM6269	American Landfill	109527OH	31692	22.31	Y	Y	Y	None
6/10/2010	Nonhaz	Load Line 12	6/10/2010	R&J Trucking	PFM6052	American Landfill	109527OH	31693	22.3	Y	Y	Y	None
6/11/2010	Nonhaz	Load Line 12	6/10/2010	R&J Trucking	PUU9789	American Landfill	109527OH	31694	23.83	Y	Y	Y	None
6/11/2010	Nonhaz	Load Line 12	6/10/2010	R&J Trucking	PGC6541	American Landfill	109527OH	31695	23.63	Y	Y	Y	None
6/11/2010	Nonhaz	Load Line 12	6/11/2010	R&J Trucking	PUU9789	American Landfill	109527OH	31696	23.62	Y	Y	Y	None
6/11/2010	Nonhaz	Load Line 12	6/11/2010	R&J Trucking	PGJ1689	American Landfill	109527OH	31697	25.31	Y	Y	Y	None
6/11/2010	Nonhaz	Load Line 12	6/11/2010	R&J Trucking	PGG6541	American Landfill	109527OH	31698	25.43	Y	Y	Y	None
6/11/2010	Nonhaz	Load Line 12	6/11/2010	R&J Trucking	PFM6269	American Landfill	109527OH	31699	23.3	Y	Y	Y	None
6/14/2010	Nonhaz	Load Line 12	6/14/2010	US Bulk	AF56968	American Landfill	109527OH	31700	23.61	Y	Y	Y	None
6/14/2010	Nonhaz	Load Line 12	6/14/2010	US Bulk	BA511727	American Landfill	109527OH	31701	21.1	Y	Y	Y	None
6/14/2010	Nonhaz	Load Line 12	6/14/2010	US Bulk	AF45353	American Landfill	109527OH	31702	21.43	Y	Y	Y	None
6/14/2010	Nonhaz	Load Line 12	6/14/2010	US Bulk	AF03793	American Landfill	109527OH	31703	20.35	Y	Y	Y	None
6/14/2010	Nonhaz	Load Line 12	6/14/2010	US Bulk	1015115	American Landfill	109527OH	31704	22.22	Y	Y	Y	None
6/14/2010	Nonhaz	Load Line 12	6/14/2010	US Bulk	AF56968	American Landfill	109527OH	31705	23.21	Y	Y	Y	None
6/14/2010	Nonhaz	Load Line 12	6/14/2010	US Bulk	AF03793	American Landfill	109527OH	31706	22.14	Y	Y	Y	None
6/15/2010	Nonhaz	Load Line 12	6/14/2010	US Bulk	1015115	American Landfill	109527OH	31707	22.32	Y	Y	Y	None
6/15/2010	Nonhaz	Load Line 12	6/15/2010	US Bulk	AF03793	American Landfill	109527OH	31708	21.59	Y	Y	Y	None
6/15/2010	Nonhaz	Load Line 12	6/15/2010	US Bulk	AF56968	American Landfill	109527OH	31709	23.65	Y	Y	Y	None
6/15/2010	Nonhaz	Load Line 12	6/15/2010	US Bulk	1015115	American Landfill	109527OH	31710	23.52	Y	Y	Y	None
RVAAP Load Line 12 Remedial Action Manifest Log

Disposal Date	Type of Waste	Source/ Location	Date of Generation	Transporter	Truck License No.	Disposal Facility	Waste Profile No.	Manifest Document No.	Facility Quantity (tons)	Copy of manifest leaving site (Y/N)	Signed Manifest Rec'd (Y/N)	Signed Manifest to Regs (Y/N)	Notes
6/15/2010	Nonhaz	Load Line 12	6/15/2010	US Bulk	AF03793	American Landfill	109527OH	31711	21.71	Y	Y	Y	None
6/15/2010	Nonhaz	Load Line 12	6/15/2010	US Bulk	AF56968	American Landfill	109527OH	31712	23.11	Y	Y	Y	None
6/15/2010	Nonhaz	Load Line 12	6/15/2010	US Bulk	1015115	American Landfill	109527OH	31713	24.09	Y	Y	Y	None
6/16/2010	Nonhaz	Load Line 12	6/15/2010	US Bulk	AF03793	American Landfill	109527OH	31714	22.43	Y	Y	Y	None
6/16/2010	Nonhaz	Load Line 12	6/16/2010	US Bulk	1015115	American Landfill	109527OH	31715	21.94	Y	Y	Y	None
6/16/2010	Nonhaz	Load Line 12	6/16/2010	US Bulk	AF03793	American Landfill	109527OH	31716	22.76	Y	Y	Y	None
6/16/2010	Nonhaz	Load Line 12	6/16/2010	US Bulk	1015115	American Landfill	109527OH	31717	23.65	Y	Y	Y	None
6/16/2010	Nonhaz	Load Line 12	6/16/2010	US Bulk	AF03793	American Landfill	109527OH	31718	23.15	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/16/2010	D&D Trucking	PEY6172	American Landfill	109527OH	31719	20.17	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/16/2010	US Bulk	1015115	American Landfill	109527OH	31720	24.06	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/16/2010	US Bulk	AF03793	American Landfill	109527OH	31721	21.15	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/17/2010	Berner Trucking	PVJ8483	American Landfill	109527OH	31722	20.45	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/17/2010	Berner Trucking	PVN5998	American Landfill	109527OH	31723	20.26	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/17/2010	US Bulk	AF03793	American Landfill	109527OH	31724	21.63	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/17/2010	US Bulk	1015115	American Landfill	109527OH	31725	23.1	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/17/2010	D&D Trucking	PEY6172	American Landfill	109527OH	31726	20.95	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/17/2010	Berner Trucking	PVJ8483	American Landfill	109527OH	31727	21.92	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/17/2010	Berner Trucking	PVN5998	American Landfill	109527OH	31728	22.09	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/17/2010	US Bulk	AF03793	American Landfill	109527OH	31729	22.14	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/17/2010	US Bulk	1015115	American Landfill	109527OH	31730	22.58	Y	Y	Y	None

RVAAP Load Line 12 Remedial Action Manifest Log

Disposal Date	Type of Waste	Source/ Location	Date of Generation	Transporter	Truck License No.	Disposal Facility	Waste Profile No.	Manifest Document No.	Facility Quantity (tons)	Copy of manifest leaving site (Y/N)	Signed Manifest Rec'd (Y/N)	Signed Manifest to Regs (Y/N)	Notes
6/18/2010	Nonhaz	Load Line 12	6/17/2010	D&D Trucking	PEY6172	American Landfill	109527OH	31731	21.02	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/17/2010	Berner Trucking	PVJ8483	American Landfill	109527OH	31732	21.24	Y	Y	Y	None
6/17/2010	Nonhaz	Load Line 12	6/17/2010	Berner Trucking	PVN5998	American Landfill	109527OH	31733	21.59	Y	Y	Y	None
6/18/2010	Nonhaz	Load Line 12	6/17/2010	US Bulk	AF03793	American Landfill	109527OH	31734	22.18	Y	Y	Y	None
6/18/2010	Nonhaz	Load Line 12	6/18/2010	Berner Trucking	PVJ8483	American Landfill	109527OH	31735	24.27	Y	Y	Y	None
6/18/2010	Nonhaz	Load Line 12	6/18/2010	Berner Trucking	PVN5998	American Landfill	109527OH	31736	22.35	Y	Y	Y	None
6/18/2010	Nonhaz	Load Line 12	6/18/2010	US Bulk	1015115	American Landfill	109527OH	31737	23.86	Y	Y	Y	None
6/18/2010	Nonhaz	Load Line 12	6/18/2010	US Bulk	AF03793	American Landfill	109527OH	31738	21.14	Y	Y	Y	None
6/18/2010	Nonhaz	Load Line 12	6/18/2010	D&D Trucking	PEY6172	American Landfill	109527OH	31739	23.32	Y	Y	Y	None
6/18/2010	Nonhaz	Load Line 12	6/18/2010	Berner Trucking	PVJ8483	American Landfill	109527OH	31740	20.78	Y	Y	Y	None
6/18/2010	Nonhaz	Load Line 12	6/18/2010	Berner Trucking	PVN5998	American Landfill	109527OH	31741	22.47	Y	Y	Y	None
6/18/2010	Nonhaz	Load Line 12	6/18/2010	US Bulk	AF03793	American Landfill	109527OH	31742	21.79	Y	Y	Y	None
6/18/2010	Nonhaz	Load Line 12	6/18/2010	US Bulk	1015115	American Landfill	109527OH	31743	23.05	Y	Y	Y	None
6/21/2010	Nonhaz	Load Line 12	6/18/2010	Berner Trucking	PVN5998	American Landfill	109527OH	31744	19.86	Y	Y	Y	None

- Note that the quantities entered on the manifest were weights estimated in the field. Quantities in this table are actual weights, as measured at the receiving facility.

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH(521002013c		. Page 1 of	3. Emergency Respon 330-358-731		4. Waste	racking Nu	^{mber} 03	169	1
5. Generator's Name and Mail Generator's Phone: 330	Ravenna 8451 Stat	Army Ammunulo e Route 5 Ohio 44260	n Plant	Generator's Site Addre	ess (if different t	han mailing add	ress)			
6. Transporter 1 Company Na		800-262-9365	L		a <u>, i tanà 1190</u> - 61 - 61	U.S. EPA ID	Number			
7. Transporter 2 Company Na	me					U.S. EPA ID	Number			
8. Designated Facility Name a	Amincal 7016 Cha	l Landfill ipel Street mrg. Ohio 44688	•			U.S. EPA ID	Number			
Facility's Phone: 2000 9. Waste Shipping Nam	100°2103	аналанын түүлөн түүлөөн		10. Cor No.	ntainers Type	11. Total Quantity	12. Unit Wt./Vol.			
1. Nom RCRA	e Non Regulated Solid W			001	DT	22	1			
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13. Special Handling Instructi	ons and Additional Information ana Norn-Haz Sott (1717)	10750	7	off per	Juhn	m:[[e	r			
1. Raven 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T	na Son-Haz Sort (LL 12) CATION: I certify the materials describe Yoed Name Patterson	ed above on this manifest are	e not subject Sign	ature and	or reporting pro			Vaste. Monti	n Day	Year
14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T May L 15. International Shipments Transporter Signature (for exp	ma Son-Huz Solf (LL (2) CATION: I certify the materials describe yped Name Patterson □ Import to U.S. orts only):	ed above on this manifest are	e not subject	o federal regulations f ature ature ature ature ature ature ature ature ature ature ature ature ature ature ature ature ature 5. Port of	or reporting pro			*********	n Day	Year
14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T Markut 15. International Shipments Transporter Signature (for exp 16. Transporter Acknowledgm Transporter 1 Printed/Typed N	CATION: I certify the materials describe yped Name PaHeyson \square Import to U.S. orts only): ent of Receipt of Materials ame R Bezd/	ed above on this manifest are	e not subject Sign xport from U.	to federal regulations f ature S. Port of Date lea ature	or reporting pro	per disposal of I	Hazardous W	*********	Day	Yea 10
14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T Max L 15. International Shipments Transporter Signature (for exp 16. Transporter Acknowledgm Transporter 1 Printed/Typed N Kenner 2 Printed/Typed N 17. Discrepancy	$\begin{array}{c} \text{ma Non-Haz Soft (LL (2))} \\ \hline \\ \text{CATION: I certify the materials describe} \\ \hline \\ \text{yped Name} \\ \hline \\ \hline \\ \text{PaHeySoft} \\ \hline \\ \\ \hline \\ \text{Import to U.S.} \\ \hline \\ \\ \text{orts only):} \\ \hline \\ \text{ent of Receipt of Materials} \\ \hline \\ \\ \text{ame} \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \hline \\ \\ \hline \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \hline \\ \hline \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \hline \\ \hline \hline \hline \\ \hline \hline \hline \\ \hline \hline \hline \hline \\ \hline \hline \hline \hline \\ \hline \hline \hline \hline \hline \\ \hline \hline$	ed above on this manifest are	e not subject Sign xport from U. Sign	in federal regulations f ature S. Port of Date lease Ature Ature Residue	or reporting pro	per disposal of I	Hazardous W	Monti	Day	Yea JC Yeau
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A GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T M & L M & L International Shipments Transporter Signature (for exp 16. Transporter Acknowledgmu Transporter 1 Printed/Typed N K & Shipments Transporter 2 Printed/Typed N 17. Discrepancy 17a. Discrepancy Indication Sp 17b. Alternate Facility (or Generation Facility's Phone:	CATION: I certify the materials describe yped Name PAHEYSOM Import to U.S. orts only): ent of Receipt of Materials ame Beccli Dace Quantity erator)	ed above on this manifest are	e not subject Sign xport from U. Sign	in federal regulations f ature S. Port of Date lease Ature Ature Residue	or reporting pro	per disposal of I	Hazardous W	Monti	Day	Yea /C Yeau
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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736		2. Page 1 or	3. Emergency Respons 330-358-731		4. Waste	racking Nu	^{mber} 031	.691	2
5. Generator's Name and Maili	ng Address	L		Generator's Site Addre						
Generator's Phone: 330	8451 State	Anny Animunitie Route 5 Ohio 44266	10 F.1911							
6. Transporter 1 Company Nan		00-262-9365				U.S. EPA ID) Number			
7. Transporter 2 Company Nan	ne					U.S. EPA ID	Number			
3. Designated Facility Name ar	nd Site Address		* * *	97 63		U.S. EPA ID) Number			
Facility's Phone: 330-8	Americal 7916 Cha 806-3265 Waynesbi					1				
9. Waste Shipping Name				10. Con No.		11. Total Quantity	12. Unit Wt./Vol.			
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Non RCRA	. Non Regulated Solid W	aste				22				
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13. Special Handling Instruction	na Non-Haz Sod (LL12)		107	4ngmt	H o e	er To	ha 1	n'llo	•	
L. Raven 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T	na Non-Haz Soil (LL12)	above on this manifest a		to federal regulations for	or reporting pro			Vaste. Month	Day	Year
L. Raven 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T	na Non-Haz Soil (LL12)	I above on this manifest a	re not subject t Signa	to federal regulations for ature Martin	or reporting pro			Vaste.		Year IO
1. Raven 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T MOUV K- 15. International Shipments Transporter Signature (for expo	na Non-Haz Soil (LL12)	I above on this manifest a	re not subject t	to federal regulations for ature March S. Port of e	or reporting pro			Vaste. Month		1 . 1
A. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T MOLY K Stransporter Signature (for exponents) Transporter 1 Printed/Typed Na Creege O	THE Non-Haz Soil (J.L.12)	I above on this manifest a	re not subject t Signa	to federal regulations for ature S. Port of e Date lea	entry/exit:		Hazardous W	Vaste. Month		10 Year 16
L. Raven Additional Shipments Transporter Signature (for expo 16. Transporter 1 Printed/Typed Na	THE Non-Haz Soil (J.L.12)	I above on this manifest a	re not subject i Signa Export from U. Signa	to federal regulations for ature S. Port of e Date lea	entry/exit:	per disposal of H	Hazardous W	Vaste. Month G Month	Day	10 Year
L. Raven 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T 15. International Shipments Transporter Signature (for expo 16. Transporter Acknowledgme Transporter 1 Printed/Typed Na Transporter 2 Printed/Typed Na 17. Discrepancy	na Non-Haz Soil (LL12)	I above on this manifest a	re not subject i Signa Export from U. Signa	ature S. Port of e Date lea ature ature Ature Residue	or reporting pro	per disposal of H	Hazardous W	Vaste. Month G Month	Day	Year Year
L. Raven A. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T Generator's/Offeror's Printed/T I5. International Shipments Transporter Signature (for expo 16. Transporter Acknowledgme Transporter 1 Printed/Typed Na Transporter 2 Printed/Typed Na	ATION: I certify the materials described variable of the materials described variab	t above on this manifest a	re not subject i Signa Export from U. Signa	to federal regulations for ature S. Port of e Date lea ature	or reporting pro	per disposal of F	Hazardous W	Vaste. Month G Month	Day	Year Year
L. Raven Additional State of the second state of the seco	ATION: I certify the materials described variable of the materials described variab	t above on this manifest a	re not subject i Signa Export from U. Signa	ature S. Port of e Date lea ature ature Ature Residue	or reporting pro	per disposal of H	Hazardous W	Vaste. Month G Month	Day	Year Year
I. Raven Additional Shipments Transporter Signature (for export Signature (for export Transporter 1 Printed/Typed Na Transporter 2 Printed/Typed Na	ATION: I certify the materials described vped Name MAHEVSON Import to U.S. orts only): ent of Receipt of Materials ame CAS, SR ame ace Quantity reator)	t above on this manifest a	re not subject i Signa Export from U. Signa	ature S. Port of e Date lea ature ature Ature Residue	or reporting pro	per disposal of H	Hazardous W	Vaste. Month G Month	Day	Year Year
L. Raven Additional State of the second state of the seco	ATION: I certify the materials described vped Name MAHEVSON Import to U.S. orts only): ent of Receipt of Materials ame CAS, SR ame ace Quantity reator)	t above on this manifest a	re not subject i Signa Export from U. Signa	ature S. Port of e Date lea ature ature Ature Residue	or reporting pro	per disposal of H	Hazardous W	Vaste. Month Month	Day	Year Year Year
L. Raven Additional State of Science	ATION: I certify the materials described vped Name MAHEVSON Import to U.S. orts only): ent of Receipt of Materials ame CAS, SR ame ace Quantity reator)	t above on this manifest a	re not subject I Signa Export from U. Signa Signa	to federal regulations for ature	or reporting pro	per disposal of H	Hazardous W	Vaste. Month	Day	Year Year ion Year
A. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T WOUNK S. International Shipments fransporter Signature (for expo 6. Transporter Acknowledgme ransporter 1 Printed/Typed Na Tansporter 2 Printed/Typed Na To Discrepancy 7a. Discrepancy 7a. Discrepancy Indication Sp 7b. Alternate Facility (or Gene acility's Phone: 7c. Signature of Alternate Fac	ATION: I certify the materials described yed Name MATION: I certify the materials described yed Name MAHEVSON Import to U.S. parts only): and are CASS, SR ame ace Quantity into (Generator)	t above on this manifest a	re not subject f	to federal regulations for ature	or reporting pro	per disposal of H	Hazardous W	Vaste. Month Month	Day	Yea Yea Yea

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Frankland & Frankland Street Street



WASTE MANIFEST		umber 5210020736	2.1	Page 1 of	3. Emergency Respons 330-358-731		4. Wasie	Hacking Rul	"" U 3	31693
5. Generator's Name and Ma Generator's Phone: 331	D-358-7312	Ravenna Arm 8451 State Ro Ravenna, Ohr		Plant	Generator's Site Addre	ss (if different	than mailing add	iress)		
3. Transporter 1 Company Na	and a state of the	UCKING 800-	262-9365	8,	<u></u>		U.S. EPA ID	O Number		
7. Transporter 2 Company Na	ame		<u></u>				U.S. EPA ID) Number	<u></u>	
8. Designated Facility Name a	and Site Address	Americal Lar	a([6]])				U.S. EPA ID) Number		
Facility's Phone: 330-	806-3205	7916 Chapel Waynesburg.								
9. Waste Shipping Nar	ne and Description				10. Con No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.		
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	ions and Additional Ini arra Non-Haz S	Soil (LL12)	0740	98	ott pe	r Jo	the p	1://e	r	
I. Raver	CATION: I certify the I	Soit (LL12)		not subject	to federal regulations for				aste. M	onth Day Y
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Raver A. GENERATOR'S CERTIFI Generator's/Offeror's Printed/ Multiple Second Statements Transporter Signature (for exp 6. Transporter Acknowledgm	CATION: I certify the Typed Name $Pa + Pev \leq$ import to xorts only): ent of Receipt of Mate	Soil (LL12) materials described abov	e on this manifest are	not subject Sigr port from U	t to federal regulations for nature J.S. Port of e Date lea	or reporting pr			aste. M	6 10 10
L. Raver 4. GENERATOR'S CERTIFI Generator's/Offeror's Printed/ 5. International Shipments Transporter Signature (for exp 6. Transporter Acknowledgm ransporter 1 Printed/Typed 1 S.S. S. T. A.	CATION: I certify the I Typed Name PUHEVS Import to xorts only): hent of Receipt of Mate Varme	Soil (LL12) materials described abov	e on this manifest are	bort subject	t to federal regulations for nature J.S. Port of e Date lea	or reporting pr			aste. M M	
Raver A. GENERATOR'S CERTIFI ienerator's/Offeror's Printed/ M Qy k 5. International Shipments ransporter Signature (for exp 6. Transporter Acknowledger ransporter 1 Printed/Typed N ransporter 2 Printed/Typed N 7. Discrepancy	CATION: I certify the Typed Name $\mu \mu \mu e \nu \leq$ $\mu \mu e \nu \leq$ Import to xorts only): tent of Receipt of Mate Vame	Soil (LL12) materials described abov CON U.S. erials	e on this manifest are	bort subject	to federal regulations to nature I.S. Port of e Date lea	or reporting pr		Hazardous W.	aste. M M	6 10 10 onth Day Y 5 10 10
Raver A GENERATOR'S CERTIFI Generator's/Offeror's Printed/ Discrepancy Acknowledgm ransporter Signature (for exp 6. Transporter Acknowledgm ransporter 1 Printed/Typed N Source Printed/Typed N Source Printed/Typed N Tobscrepancy Ta. Discrepancy Indication S	CATION: I certify the I Typed Name PUHEVS Import to xorts only): went of Receipt of Mate Name Name Pace Quantit	Soil (LL12) materials described abov CON U.S. erials	ve on this manifest are	bort subject	to federal regulations to nature North I.S. Port of e Date lea nature	or reporting pr	oper disposal of I	Hazardous W.	aste. M M	Ó Í Í Í onth Day Y Ó Í Í JO Í Í Onth Day Y
A. GENERATOR'S CERTIFI ienerator's/Offeror's Printed/ Multiple S. International Shipments ransporter Signature (for exp 6. Transporter Acknowledger ransporter 1 Printed/Typed N Association S 7. Discrepancy 7. Discrepancy 7. Discrepancy 7. Discrepancy 7. Alternate Facility (or Gen acility's Phone:	CATION: I certify the Typed Name PUHCVS Import to xorts only): Hent of Receipt of Mate Vame Vame Quantit Herator)	Soil (LL12) materials described abov	ve on this manifest are	bort subject	I to federal regulations for hature Active	or reporting pr	Partial Re	Hazardous W.	Aste. M K M L M	Ó Í Í Í onth Day Y Ó Í Í JO Í Í Onth Day Y
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14. GENERATOR'S CERTIFI Generator's/Offeror's Printed/ 15. International Shipments Transporter Signature (for exp 16. Transporter 1 Printed/Typed 1	CATION: I certify the Typed Name	Soil (LL12)	re on this manifest are	est except	to federal regulations for nature Acute I.S. Port of e Date lea nature Residue Manifest Reference	or reporting pr	Partial Re	Hazardous W.	Aste. M M M	Image: Control Day Y Image: Control Day Y

Frindrick Street intractions are an

NON-HAZARDOUS	1. Generator ID Number	2. Page 1 of	3. Emergency Respons	se Phone	4. Waste	Tracking Nun	^{nber} 031694
WASTE MANIFEST	OH5210020736]	330-358-731	-			031034
5. Generator's Name and Mailin	Address		Generator's Site Addres	ss (if different t	than mailing add	lress)	
	Ravenna Army 8451 State Rou Ravenna, Ohio 358-7312						
6. Transporter 1 Company Nam	R&JTRUCKING 800-2	62-9365			U.S. EPA ID) Number	
7. Transporter 2 Company Nam	lê				U.S. EPA ID) Number	
8. Designated Facility Name and	d Site Address				U.S. EPA ID) Number	
	Americal Lanc 7916 Chapel S Waynesburg, C	treet			1		
9. Waste Shipping Name			10. Cont No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	
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Non RCRA.	, Non Regulated Solid Waste		001	DT	22	- 1 's 2	
2. 2.	A						
3.							
4.						-	
13. Special Handling Instruction	ns and Additional Information		14 14				
1. Raveni	na Non-Haz Soil (LL12)						
Posti	let 1095270H						
101	let IDIJZ JUH						
	ATION: I certify the materials described above	on this manifest are not subjec	t to federal regulations fo	or reporting pro	oper disposal of I	Hazardous Wa	aste.
Generator's/Offeror's Printed/Ty		Sig	nature	10	4		Month Day Year
Mark	Vatterson		1 Jack	rai			- 6 10 10
15. International Shipments Transporter Signature (for export	Import to U.S.	Export from U	J.S. Port of e	entry/exit:			
Z Transporter Signature (for expo	•	,		ving U.S.:			
16. Transporter Acknowledgmer					19 1 12 01200 20 40		
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og Vominic	J. Maring		Janto	2,	Mus	CA	6 10 10
Transporter 2 Printed/Typed Nat		Sig	nature 7			•	Month Day Year
17. Discrepancy			······				J J
17a. Discrepancy Indication Spa	ace Quantity	П Туре	Residue			ejection	Full Rejection
			Manifest Reference	Number:	110 501 -		
17b. Alternate Facility (or Gener	rator)				U.S. EPA ID	Number	
Facility's Phone:							
17b. Alternate Facility (or Gener Facility's Phone: 17c. Signature of Alternate Facility	lity (or Generator)						Month Day Year
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18. Designated Facility Owner o Printed/Typed Name	or Operator: Certification of receipt of materials		as noted in Itom 17a)(t			Month Day Year
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1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 3	Emergency Respons 330-358-731		4. Waste 1	Fracking Nun	^{nber} 031	69	5
	5. Generator's Name and Mailin Generator's Phone: 330	ng Address Raveruna Arm 8451 State Ro Ravenna, Ohio -358-7312	y Ammunution Plant ute 5	enerator's Site Addre:	ss (if different t	han mailing add	ress)			
	6. Transporter 1 Company Nan	R&JTRUCKING 800-	262-9365			U.S. EPA ID	Number			
	7. Transporter 2 Company Nan	ne				U.S. EPA ID	Number			
	8. Designated Facility Name ar	nd Site Address Americal Lan 7916 Chapel 1 Waynesburg,	Street			U.S. EPA ID	Number		*****	
	9. Waste Shipping Name	a a a a a a a a a a a a a a a a a a a		10. Con	1	11. Total	12. Unit Wt./Vol.			
GENERATOR	1. Non RCRA	. Non Regulated Solid Waste		00)	Type	Quantity	T			
GENE	2.	A								
	3.					. 5				4 44
	4.									
	13. Special Handling Instructio	ons and Additional Information	and the second				-I			
	Profil	na Non-Haz Soil (LL12) e#1095270H ATION: I certify the materials described abov	e on this manifest are not subject to	federal regulations fo	r reporting pro	per disposal of F	azardous Wa	iste.		
V	Generator's/Offeror's Printed/Ty	Patterson	Signat	Wach	P	k =		Month	Day	Year
INT'L	15. International Shipments Transporter Signature (for expo	Import to U.S.	Export from U.S.		ntry/exit:			I		
	16. Transporter Acknowledgme Transporter 1 Printed/Typed Na	nt of Receipt of Materials	Signat		Ving 0.5.			Maath		Year
TRANSPORTER	G: U 1 + + to / Transporter 2 Printed/Typed Na	Robert Bailey	Signat	Yel	<i>9 / 4</i>			Month 6 Month	Day ن ا Day	<u>i o</u> Year
4	17. Discrepancy 17a. Discrepancy Indication Spa									
	та. Бысерансу никазон эре	Quantity	Туре	Residue		Partial Re	jection	L F	Full Reject	ion
È	17b. Alternate Facility (or Gener	rator)		Manifest Reference	Number:	U.S. EPA ID	Number			
FACIL	Facility's Phone:									
DESIGNATED FACILITY	17c. Signature of Alternate Faci	lity (or Generator)						Month	Day	Year
DESI										
	18. Designated Facility Owner o Printed/Typed Name	or Operator: Certification of receipt of materials	covered by the manifest except as Signati		$\neg \langle$]		Month	Day	Year
¥		Ayen	Signati		K	x		Month	11	10
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WACTE MANIFEOT	1. Generator ID Number	3.	2. Fage 1 UI	3. Emergency Respon		4. Waste		0.3	169	6
WASTE MANIFEST 5. Generator's Name and Mailin	OH 52100207		1i	330-358-731 Generator's Site Addre						
	Ravenni 8451 St	a Army Ananani ate Route 5 🛛 🛥 a. Ohio 44266	tion Plant			j				
6. Transporter 1 Company Nan		800-262-9365				U.S. EPA ID) Number			
7. Transporter 2 Company Nan	ne			3000 Ann. 6 140		U.S. EPA ID) Number			
8. Designated Facility Name an	nd Site Address					U.S. EPA ID) Number			
Facility's Phone: 330-8	7916 CI	al Landfill hapel Street sburg, Ohio 4468	8							
9. Waste Shipping Name				10. Cor No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.			
1. Non PCP A	. Non Regulated Solid	Waste		001	DU	22	1 S 1 2			
2.	- Non Regulated Sobo	Wabie .					+			
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4.										
120					and the second					
	na Non-Haz Soil (LLT	2)		5						
I. Ravens Profile 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/Ty Mark	na Non-Haz Soil (LL1) #/ <i>Ф</i> 95270H ATION: I certify the materials descri			t to federal regulations for nature Mark	or reporting pr	roper disposal of h	Hazardous W	/aste. Mon		Ye
L. Ravens Profiles 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/Ty	The Non-Haz Soil (LL1) #/ 995270H ATION: I certify the materials descripted Name Patters on Patters on Import to U.S.			J.S. Port of e	pr reporting pr	roper disposal of h	Hazardous W	Mon		
L. Ravens <i>IrsAles</i> 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/Ty <u>Mark</u> 15. International Shipments <u>Transporter Signature (for expo</u> 16. Transporter Acknowledgment	THE NON-HEAD Soil (LLT) # / 0915270H ATION: I certify the materials descrive yped Name PATION: I certify the materials descrive patheory of Name Import to U.S. orts only): Int of Receipt of Materials		Sig	N.S. Port of e	entry/exit:	roper disposal of h	Hazardous W	Mon	5 <i>11</i>	ļç
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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of	3. Emergency Respon 330-358-73		4. Waste 1	Tracking Num	^{ber} 031697
5. Generator's Name and Mailin Generator's Phone: 330-	ng Address Ravenna Ar 8451 State F Ravenna, O 358-T312		Generator's Site Addre	ess (if different t	han mailing add	ress)	<u></u>
6. Transporter 1 Company Nam		0-262-3365			U.S. EPA ID	Number	
7. Transporter 2 Company Nam	ne				U.S. EPA ID	Number	
8. Designated Facility Name an	Americal L				U.S. EPA ID	Number	
Facility's Phone: 330-8	00-3205 7916 Chape Waynesbur	al Street g. Ohio 44688					
9. Waste Shipping Name	e and Description		10. Cor No.	ntainers Type	11. Total Quantity	12. Unit Wt./Vol.	
1. Non RCRA 2.	. Non Regulated Solid Wa	ste	001	DT		r	
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Transporter 2 Printed/Typed Na	me SIUCITTO	Sigr	ature Juli L	fuitt	!		Month Day Year
17. Discrepancy 17a. Discrepancy Indication Spa	ace Quantity	Туре	Residue		Partial Re	jection	Full Rejection
17b. Alternate Facility (or Gener	rator)		Manifest Reference	Number:	U.S. EPA ID	Number	
Facility's Phone: 17c. Signature of Alternate Faci	lity (or Generator)						Month Day Year
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18. Designated Facility Owner o Printed/Typed Name	r Operator: Certification of receipt of mate		as noted in item 7a ature	- 1.	111		Month Day Year
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4	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH 5210020736		2. Page 1 of	3. Emergency Respons 330-358-731		4. Waste 1	Fracking Nur	^{nber} 031698	
	5. Generator's Name and Mailin			i.	Generator's Site Addres	-	than mailing add	ress)		-
		Ravenna Ar 8451 State F Ravenna, O -358-73) 2	hio 44260	m Plant	•		U.S. EPA ID			_
		R & FINUCKING 80	0-202-930.2							
	7. Transporter 2 Company Nan	ne					U.S. EPA ID	Number		
	8. Designated Facility Name an	d Site Address					U.S. EPA ID	Number		
	Facility's Phone: 330-8	Americal L 7916 Chape Waynesbur Waynesbur				5 -	1			
	9. Waste Shipping Name				10. Cont No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.		
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	13. Special Handling Instruction	no and Additional Information								_
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TRA										
	17. Discrepancy								·····	-
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FAC	Facility's Phone:									
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	19. Designated Fasility Over	· Operator: Contification of	riala anuara butta	nifont and and	en notad in thus de-			1		
	18. Designated Facility Owner o Printed/Typed Name	r Operator: Certification of receipt of mate	nais covered by the ma		as noted in Item 17a	1-	r 11.1	10	Month Day Yea	
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1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of	3. Emergency Respon 330-358-731		4. Waste 1	Fracking Num	^{ber} 031699
	5. Generator's Name and Mailir Generator's Phone: 330-	Ravenna A 8451 State	nny Ammunition Plant Route 5 Phio 44266	Generator's Site Addre	ss (if different	than mailing add	ress)	
	6. Transporter 1 Company Narr	R&JTRUCKING 80	00-262-9365			U.S. EPA ID) Number	
	7. Transporter 2 Company Nam	ie				U.S. EPA ID) Number	
	8. Designated Facility Name and Facility's Phone: 330-8	Americal I 7916 Chap				U.S. EPA ID) Number	
	9. Waste Shipping Name	and Description		10. Con No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	
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	4.							
	13. Special Handling Instructio				1	I		
		ia Non-Haz Soil (LL 12) file#10952704			7			
	14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/Ty	ATION: I certify the materials described a rped Name				oper disposal of h	Hazardous Wa	ste. Month Day Year
*	15. International Shipments	Patterson		Mork		\sim		6/11/0
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	17. Discrepancy 17a. Discrepancy Indication Spa	ace Quantity	Туре	Residue		Partial Re	ection	Full Rejection
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DESIGNATED FACILITY	Facility's Phone: 17c. Signature of Alternate Facil	ity (or Generator)						Month Day Year
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	18. Designated Facility Owner o Printed/Typed Name	r Operator: Certification of receipt of mat-		as noted in Item 17a	1-		1	Month Day Year
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NON-HAZARDOUS WASTE MANIFEST	1. Sefferator ID Number OH52100207	36	1	3. Emergency Respons 330-358-731	2	and the second sec		^{mber} 031700
5. Generator's Name and Mailin Generator's Phone: 330-	Ravenn 8451 St	a Army Ammun ate Route 5 a, Ohro 44260	ition Plant	Generator's Site Addres	ss (if different t	han mailing add	ress)	
6. Transporter 1 Company Nam	Contraction of the second s	800-642-8	⊥ 3รเ0			U.S. EPA ID		347515
7. Transporter 2 Company Nam	e		<i></i>		,	U.S. EPA ID) Number	
 Designated Facility Name and 	Americ 7916 C	al Landfill hapel Street			****	U.S. EPA ID) Number	
		sburg, Chio 4468	38	10. Con	ainers	11. Total	12. Unit	
9. Waste Shipping Name	and Description			No.	Туре	Quantity	Wt./Vol.	
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i. Ravenr	s and Additional Information ta Non-Haz Soti (L.L.) e44,199,527,0							
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L. Ravenu Profil 4. GENERATOR'S CERTIFICA ienerator's/Offeror's Printed/Typ 25. International Shipments	TION: I certify the materials described Name	H		ature Mach / .S. Port of e		per disposal of H	Hazardous W	
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	erator's Name and Mailir	Ka 84 Ra	evenna Army Ammun 51 State Route 5 evenna. Ohio 44266	itim Plant	Generator	s Site Addres	ss (if different	than mailing add	ress)	
	sporter 1 Company Nam	-358-73)2	ANG_800-262-9365.	<u> </u>				U.S. EPA ID	Number	
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7. Tran	sporter 2 Company Nam	ne CLA DUIR		3110		1 - 1 - Caralle		U.S. EPA ID		37/2/3
8. Desig	gnated Facility Name an		5 5 52745					U.S. EPA ID	Number	
Facility	's Phone: 330-8	79	mencal Landfill 16 Chapel Street 'aynesburg, Ohio 4468	88						
	9. Waste Shipping Name	and Description	MANNER OF AT 1 1411 MANNER			10. Con	tainers	11. Total	12. Unit	
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General	NERATOR'S CERTIFIC	ATION: I certify the materia yped Name	als described above on this manife		t to federal in nature	regulations for	or reporting pro	oper disposal of H	łazardous W	Month Day
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Generat 15. Inter Transpo	NERATOR'S CERTIFIC tor's/Offeror's Printed/Ty // // // mational Shipments orter Signature (for expo	ATION: I certify the materia /ped Name	als described above on this manife	Sigr	nature	Port of e	Pe	oper disposal of H	łazardous W	Month Day -
General	NERATOR'S CERTIFIC tor's/Offeror's Printed/Ty // // // mational Shipments orter Signature (for expo	ATION: I certify the materia /ped Name // / / / / / / / / / / / / / / / / / /	als described above on this manife	Sigr	nature J.S.	Port of e Date lea	ntry/exit: ving U.S.:	oper disposal of H	łazardous W	Month Day -
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Generat 15. Intel Transpo 16. Trar Transpo 17. Disc 17a. Disc 17b. Alte Facility's 17c. Sig	NERATOR'S CERTIFIC tor's/Offeror's Printed/Ty imational Shipments orter Signature (for expo- nsporter Acknowledgmen orter 1 Printed/Typed Na orter 2 Printed/Typed Na crepancy screpancy screpancy screpancy Indication Spa ermate Facility (or Gener s Phone: gnature of Alternate Facili	ATION: I certify the materia (ped Name (ped Name) (ped Name) (als described above on this manife	Sigr	nature	Port of e Date lea	ntry/exit: ving U.S.:	Partial Re	ejection	Month Day Month Day Month Day Month Day
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TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 3.	Emergency Respons 330-358-731		4. Waste	Fracking Nurr	^{iber} 031702
5. Generator's Name and Mar	Ravenna Ann	y Ammunition Plant	nerator's Site Addre	ss (if different t	l		
	8451 State Ro Ravenna, Oho						
Generator's Phone: 330 6. Transporter 1 Company Nar	-358-7312 ne (1	262.0365			U.S. EPA ID	Number	
7. Torona da O Company Mar	US Balle 800	642 8910			U.S. EPA ID		7515
7. Transporter 2 Company Nar					0.5. EPA IL	Number	
8. Designated Facility Name ar	nd Site Address Americal Lan	.1(77)			U.S. EPA ID	Number	
	7916 Chapel : Waynesburg,	Street			1		
	MRJ-S200	CIBC ARRO	10. Con	tainers	11. Total	12. Unit	
9. Waste Shipping Nam	e and Description		No.	Туре	Quantity	Wt./Vol.	an a
	5		1001	DT	n	T	
Non RCRA	Non Regulated Solid Waste				. , <u></u>		
5							
3.						+	
4.							
13. Special Handling Instruction	ons and Additional Information					<u></u>	
i. Raven	na Non-Haz Soil (LL12)						
Parti	e #1095270H						
110.01	V TY ISFICI						
14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T	ATION: I certify the materials described above			or reporting pro	per disposal of I	Hazardous Wa	
	k Patterson	Signatu	Mark	fat			Month Day Year $6 14 10$
15. International Shipments	Import to U.S.	Export from U.S.		entry/exit:			
	nt of Receipt of Materials			aving U.S.:			
16. Transporter Acknowledgme Transporter 1 Printed/Typed Na		Signatu	° Va-		1	~	Month Day Year
Transporter 2 Printed/Typed Na	ame	Sigentu	2		-9 ^{ru}		Month Day Year
17. Discrepancy	Naranova I. I						
17a. Discrepancy Indication Sp	ace Quantity	Туре	Residue		Partial Re	ejection	Full Rejection
			Manifest Reference	Number:			
17b. Alternate Facility (or Gene	rator)				U.S. EPA ID	Number	
Facility's Phone:							
17c. Signature of Alternate Fac	ility (or Generator)	1					Month Day Year
17c. Signature of Alternate Fac							
					~		
	or Operator: Certification of receipt of materials			i V	/		Maath David Maria
Printed/Typed Name	Dekien		e /	L	AU	2	$\begin{array}{c c} Month & Day & Year \\ \hline 6 & 1410 \end{array}$
9-BLC-I 6 Rev. 8/06			7		ESIGNAT	ED FACI	LITY TO GENERATOF

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1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736		330-358-731	12			^{iber} 031703
	denotator 3 r none.	Ravenna Army / 8451 State Rome Ravenna, Ohio 4 -358-7312	S COMPANY STRATE	erator's Site Addre	ss (if different t			
	6. Transporter 1 Company Nan 7. Transporter 2 Company Nan	USBULK BODG	42-8910 _			U.S. EPA ID U.S. EPA ID U.S. EPA ID		+7515
	8. Designated Facility Name ar Facility's Phone: 330-8	d Site Address Americal Landfi 7916 Chapel Str 866-3265 Waynesburg, Ol	éét			U.S. EPA IÙ	Number	
	9. Waste Shipping Name	e and Description		10. Cont No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	
GENERATOR	t. Non RCRA	. Non Regulated Solid Waste		001	DT	22	T	
GEN	2.							
	3.							
	4.							
	13. Special Handling Instruction	ons and Additional Information			1		<u> </u>	
	I Payan	na Non-Haz Soff (LL12)						
	-	le#1095270H						
		ATION: I certify the materials described above on	this manifest are not subject to fe	deral regulations fo	or reporting pro	nor disposal of l	Hazardous Wa	sta
	Generator's/Offeror's Printed/T	yped Name	Signature					Month Day Year
۲		Patterson		Mark	Pan	\sim		6 14 10
INT'L	15. International Shipments Transporter Signature (for expo	Import to U.S.	Export from U.S.		entry/exit: wing U.S.:			
-	16. Transporter Acknowledgme			Quie ieu	Wild 0.5.	~1		
TRANSPORTER	Transporter 1 Printed/Typed Na IC TO N Transporter 2 Printed/Typed Na	- LTRACY	Signature Signature	ih ?	£4	eg_		Month Day Year
TRA		//				/		
	17. Discrepancy 17a. Discrepancy Indication Sp	ace Quantity [Туре	Residue		Partial Re	ejection	Full Rejection
FACILITY -	17b. Atternate Facility (or Gene	rator)		lanifest Reference	Number:	U.S. EPA ID	Number	
DFA	Facility's Phone:	ilte (or Concenter)						Month Day Vi
DESIGNATED	17c. Signature of Alternate Fac	lifty (or Generator)						Month Day Year
- DESI					0			
		or Operator: Certification of recent of materials co	and the second		1	Λ		
¥	Printed/Typed Name	DAyer	Signature	(In		Month Day Year
169	-BLC-I 6 Rev. 8/06				-	ESIGNAT	ED FACI	LITY TO GENERATOR

finding from more survey and an

1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of	3. Emergency Respons 330-358-731		4. Waste 1	Fracking Nur	^{mber} 031704
	5. Generator's Name and Mailin	I Address		Generator's Site Addres	-	<u> </u>		
	Generator's Phone: 330 6. Transporter 1 Company Nan	8451 State Ro Ravenna, Ohic -358-7312	44266			U.S. EPAID	Number	47515
	7. Transporter 2 Company Nam	ne USDULK a	0692-0710			U.S. EPA ID		11517
	8. Designated Facility Name an					U.S. EPA ID	Number	
	Facility's Phone: 330-8	Americal Lan 7916 Chapel 5 866-3265 Waynesburg,	street					
	9. Waste Shipping Name	e and Description		10. Cont No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.			Tana a	-			
GENERATOR		, Non Regulated Solid Waste		001	DT	22		
- GEN	2.							
	3.							
	4.							
	14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/Ty		on this manifest are not subject I Signa		1 11	oper disposal of F	łazardous W	Month Day Year
V	15. International Shipments		<u></u>	û.	an	\sim		6 14 10
INT'L	Transporter Signature (for expo	Import to U.S.	Export from U.		ntry/exit: ving U.S.:			an a
	16. Transporter Acknowledgme			Duto .ou	ning olon			
TRANSPORTER	Transporter 1 Printed/Typed Na	ime / i o /	Signa	ature				Month Day Year
NSP	Transporter 2 Printed/Typed Na	Chad Spper	Signa	ature /	P			Month Day Year
TRA	1 2			9				
4	17. Discrepancy							
	17a. Discrepancy Indication Spa	Quantity	Туре	Residue		Partial Re	jection	Full Rejection
- אין	17b. Alternate Facility (or Gener	rator)		Manifest Reference	Number:	U.S. EPA ID	Number	
D FAC	Facility's Phone:							
DESIGNATED FACILITY	17c. Signature of Alternate Faci	lity (or Generator)						Month Day Year
- DESI								
		or Operator, Contification of receipt of materials	covered by the manifest except a	as noted in Item 17a	γ	$\overline{}$		
¥	Printed/Typed Name	DArei	n Signa	iture	K	hi	٤	Month Day Year
20	-BI C-I 6 Bev 8/06	(r	FOICHAT	ED FAC	LITY TO GENERATOR

	*					1		с.		
NON-HAZARDOUS	1. Generator ID Number O113210020	-36	2. Page 1 of	3. Emergency Respon	se Phone			mber 🗍 🗇	1. / D	
WASTE MANIFEST	ng Address Ravear 8431 St Raveart	a Army Aimei late Route 5 la Chio 44250				han mailing add	ress)			
Generator's Phone:	-358-7312 ne <u>Rectarcocreme</u> USBULIK 180		* 3		umereet.	U.S-EPAID	Number 7373	47513		
7. Transporter 2 Company Nar						U.S. EPA ID	Number			
3. Designated Facility Name ar Facility's Phone:	Aspene 29 to C	cal Landhli 'hapel Street :sl-urg, Ohio-44	688			U.S. EPA ID	Number			<u></u>
9. Waste Shipping Nam	e and Description			10. Con	itainers	11. Total	12. Unit			
				No.	Type [Y]	Quantity	Wt./Vol.			
1. Noa RCRA	a, Non Regulated Solid	Waste			i i	the inter			2	
2.			÷		r je					
3.										
1. Raver	ma Non-Haz Soil (1.1.)	21								
3. Special Handling Instruction 1. Raven Born			ifest are not subject	to federal regulations fo	pr reporting pro	per disposal of F	Hazardous W	asie.		
3. Special Handling Instruction 1. Raven Paper 4. GENERATOR'S CERTIFIC Senerator's/Offeror's Printed/T MANY	ma Non-Hav Soil (1.1.) レモーゼ)ゆ9527のト) ATION: I certify the materials descr	ribed above on this man			or reporting pro		Hazardous W	/aste. Mopt	Day Salari	Х Т
3. Special Handling Instruction 1. Raven 3. Raven 4. GENERATOR'S CERTIFIC enerator's/Offeror's Printed/T Control of the second shipments 5. International Shipments ransporter Signature (for expo	ma Non-Hav Soil (1.1.) LE $\oplus 109527011$ CATION: I certify the materials descr yped Name = 100 + 6x < 22 Import to U.S. orts only):	ribed above on this man	Sign	S. Port of e	entry/exit:	H~	• • • • • • • • • • • • • • • • • • •	Mopth	Day Line	
3. Special Handling Instruction 1. Raven 2. Raven 4. GENERATOR'S CERTIFIC enerator's/Offeror's Printed/T Control of the second	ma Non-Hao Soil (1.1.) LE \oplus 109527011 ATION: I certify the materials descr yped Name are $are are are are are are are are are are$	ribed above on this man	Sign	S. Port of e	entry/exit:	H~	• • • • • • • • • • • • • • • • • • •	Mopth		
3. Special Handling Instruction 1. Raven Paper 4. GENERATOR'S CERTIFIC enerator's/Offeror's Printed/T Markov Markov 5. International Shipments ransporter Signature (for exponence) 6. Transporter Acknowledgme ransporter 1 Printed/Typed Na Compare Markov Markov	ma Non-Haw Soil (1.1.) UE ± 109527011 SATION: I certify the materials descr yped Name 101 ± 676222 Import to U.S. orts only): ont of Receipt of Materials ame 400541	ribed above on this man	Sign	.S. Port of e	entry/exit:	H~	• • • • • • • • • • • • • • • • • • •	Mopth S	Day	
3. Special Handling Instruction 1. Raven 3. Raven 4. GENERATOR'S CERTIFIC enerator's/Offeror's Printed/T enerator's/Offeror's Printed/Typed Na 5. International Shipments ransporter Signature (for export 6. Transporter Acknowledgme ransporter 2 Printed/Typed Na ransporter 2 Printed/Typed Na	ma Non-Haw Soil (1.1.) UE ± 109527011 SATION: I certify the materials descr yped Name 101 ± 676222 Import to U.S. orts only): ont of Receipt of Materials ame 400541	ribed above on this man	Sign	akure S. Port of o Date lee nature Mothure	entry/exit:	H~	• • • • • • • • • • • • • • • • • • •	Moprit S Monti	Day	
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3. Special Handling Instruction 1. Raven 3. Raven 3. Raven 3. Raven 3. Raven 3. Raven 3. Raven 4. GENERATOR'S CERTIFIC ienerator's/Offeror's Printed/T ienerator's/Offeror's/Offeror's Printed/T ienerator's/Offero	ama Non-Haw Soil (1.1.) UE. H10952701 CATION: I certify the materials descr yped Name (1.1.4) Import to U.S. orts only): ame ace Quantity	ribed above on this man	Sign	akure / / / / / / / / / / / / / / / / / / /	entry/exit: wing U.S.: A. Kane	H~ ic~	jection	Month Month	Day / Day	
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3. Special Handling Instruction 1. Raven 2. Raven 3. GENERATOR'S CERTIFIC Concernator's/Offeror's Printed/T Concernator's/Offeror's Printed/T Concernational Shipments 5. International Shipments 5. International Shipments 5. International Shipments 7. International Shipments 7. Discrepancy 7. Discrepancy 7. Discrepancy Indication Sp 7. Alternate Facility (or Gene acility's Phone:	ma Non-Hao Soil (1.1.) (4.1.) ATION: I certify the materials descr yped Name $(4.4.6 \times 6.5.5)$ Import to U.S. orts only): int of Receipt of Materials are $(4.4.6 \times 6.5.5)$ are $(4.4.6 \times 6.5.5)$ $(4.4.6 \times 6.5$	ribed above on this man	Sign	akure	entry/exit: wing U.S.: A. Kane	M L Partial Re	jection	Month	Day / / - : Day) / / tion
13. Special Handling Instruction 14. Revent 14. GENERATOR'S CERTIFIC Denerator's/Offeror's Printed/T 15. International Shipments 15. International Shipments 16. Transporter Signature (for export 16. Transporter Signature (for export 17. Discrepancy 17. Discrepancy 17. Discrepancy 17. Alternate Facility (or Gene 16. Signature of Alternate Fac 17. Signature of Alternate Fac 18. Second Science 19. Signature of Alternate Fac 19. Sign	ma Non-Hao Soil (1.1.) (4.1.) ATION: I certify the materials descr yped Name $(4.4.6 \times 6.5.5)$ Import to U.S. orts only): int of Receipt of Materials are $(4.4.6 \times 6.5.5)$ are $(4.4.6 \times 6.5.5)$ $(4.4.6 \times 6.5$	ribed above on this man	Sign	akure	entry/exit: wing U.S.: A. Kane	M L Partial Re	jection	Month	Day / / - : Day	? / / /

1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of	3. Emergency Response 330-358-731		4. Waste 1	racking Num	^{ber} 031706
	5. Generator's Name and Maili	no Address		Generator's Site Addres	s (if different	than mailing add	ress)	
	Generator's Phone: 330 6. Transporter 1 Company Nan	8451 State Ro Ravenna, Ohi -358-7312			,		Number	
	7. Transporter 2 Company Nan	US BULK 180	06428914		<u> </u>	U.S. EPA ID	1873 Number	47575
	8. Designated Facility Name ar	nd Site Address				U.S. EPA ID	Number	
	Facility's Phone: 330-8	Americal Lan 7916 Chapel 866-3265 Waynesburg.	Street					
	9. Waste Shipping Name	e and Description		10. Conta	1	11. Total Quantity	12. Unit Wt./Vol.	
	1.	······································		No.	Туре	22	<u> </u>	
GENERATOR		. Non Regulated Solid Waste		001	DT	LC	1	
GEN	2.							
	3.							
	4.							
	13. Special Handling Instruction	ons and Additional Information				l		
	1. Raven	na Non-Haz Soil (LL12)						
	TROFIL	LE#1995270H						
	14. GENERATOR'S CERTIFIC	ATION: I certify the materials described abov	e on this manifest are not subjec	t to federal regulations for	r reporting pro	oper disposal of H	lazardous Wa	ste.
	Generator's/Offeror's Printed/Ty	yped Name Oaul	Sig	Mark				Month Day Year
	15. International Shipments	$\square \text{ Import to U.S.}$	Export from L					
INT'L	Transporter Signature (for expo 16. Transporter Acknowledgme	orts only):			ving U.S.:			
RTEF	Transporter 1 Printed/Typed Na	ame	Sig	nature	-			Month Day Year
SPO	Victor	LTRACY		Vin	$ \land $	In	7	6/4/10
TRANSPORTER	Transporter 2 Printed/Typed Na	ame	Sig	nature			•	Month Day Year
	17. Discrepancy 17a. Discrepancy Indication Sp	ace Quantity	П Туре	Residue		Partial Re	jection	Full Rejection
				Manifest Reference I	Number			
È	17b. Alternate Facility (or Gene	rator)				U.S. EPA ID	Number	
FACILITY	Facility's Phone:					I		
DESIGNATED F	17c. Signature of Alternate Fac	ility (or Generator)						Month Day Year
- DESIG								
	18 Designated Facility Owner	or Operator: Certification of receipt of material	covered by the manifest excent	as noted in Itom 17a.		and the second second		
	Printed/Typed Name			hature 6/4	1/	blu	lin	Month Day Year
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≜	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OT15210020736			mergency Response 330-358-731		4. Waste T	racking Nu	^{mber} 031	707
	5. Generator's Name and Mailin Generator's Phone: 330	ng Address Ravenna A 8451 State Ravenna, C -358-7312		ion Plant ^{Gen}	erator's Site Address	s (if different	than mailing add	ress)		
	6. Transporter 1 Company Nam 7. Transporter 2 Company Nam	NO REFERENCES	1800 64	2 8910	7		U.S. EPA ID PADO U.S. EPA ID	1873	47575	
	8. Designated Facility Name ar	Americal 1 7916 Char	el Street				U.S. EPA ID	Number		997
	Facility's Phone: 330-8 9. Waste Shipping Name	NRP-3243	rg. Ohio 4468)	5	10. Conta No.	iners Type	11. Total Quantity	12. Unit Wt./Vol.		
GENERATOR	1. Non RCRA	, Non Regulated Solid Wa	iste		001	DT	22.	1		
GEN	2.									
	3.									
	4.									
	Profil	na Non-Haz Soil (LL12) E#1Ø95270H								
	14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/Ty	ATION: I certify the materials described yped Name PAHEVSDN	above on this manifest	Cionotur		~		lazardous W	Month	Day Year
	15. International Shipments Transporter Signature (for expo 16. Transporter Acknowledgme	Import to U.S.	L	Export from U.S.	Port of en Date leav	try/exit:				1111
SPORTE	Transporter 1 Printed/Typed Na Transporter 2 Printed/Typed Na	ame Chad Capper		Signature	L	G			Month	Day Year / 4/ / 3 Day Year
A L.	17. Discrepancy 17a. Discrepancy Indication Sp.	ace Quantity	Птуре		Residue	lumber:	Partial Re	jection	F	ull Rejection
FACILIT	17b. Alternate Facility (or Gene Facility's Phone: 17c. Signature of Alternate Faci						U.S. EPA ID	Number	Month	Day Year
DESIGNATED	18. Designated Facility Owner of	or Operator: Certification of receipt of ma	terials covered by the r	nanifest except as n	oted in Item 17	\mathcal{A})		· · · · · · · · · · · · · · · · · · ·	
↓	Printed/Typed Name	Offer	{	Signature	Ś	\sum	5-		Month	Day Year

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DESTGNATED FACILITY TO GENERATOR

	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 3. E	mergency Respons 330-358-731		4. Waste T	racking Nur	^{mber} 031 ⁻	708
	5. Generator's Name and Mailin Generator's Phone: 330	g Address Ravenna Army Ar 8451 State Route : Ravenna, Ohio 44 -358-7312	mmuniton Plant S	erator's Site Addres	ss (if different t	han mailing addr	ess)		
	6. Transporter 1 Company Nam	USBULK 180064,	2.8910			U.S. EPA ID	1873	475-15	
	7. Transporter 2 Company Narr	e				U.S. EPA ID	Number		
	8. Designated Facility Name and Facility's Phone: 330-8	d Site Address Americal Landfill 7916 Chapel Stree Waynesburg, Ohr	et.			U.S. EPA ID	Number		
	9. Waste Shipping Name			10. Cont No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.		
GENERATOR	1. Non RCRA	. Non Regulated Solid Waste.			DT	1z	in in its second		
GENE	2.								
	3.								
	4.								
	PRUTI	na Non-Haz Soil (LL12) LEH 1895270H	is manifest are not subject to fe	deral regulations fo	or reporting pro		azardous W	aste	
¥	Generator's/Offeror's Printed/Ty		Signatur		Êtt			Month	Day Year
INT'L	15. International Shipments Transporter Signature (for expo	Import to U.S. rts only):	Export from U.S.		ntry/exit: ving U.S.:				
RTER	16. Transporter Acknowledgme Transporter 1 Printed/Typed Na		Signatur		. /	\sim		Month	Day Year
TRANSPORTER	Transporter 2 Printed/Typed Na	LTRACY	Signatur	ud-	\geq	lea	7	Month	<u>/5 /2</u> Day Year
	17. Discrepancy 17a. Discrepancy Indication Spa	ace Quantity] Туре	Residue	Number	Partial Rej	iection		I Rejection
ACILITY -	17b. Alternate Facility (or Gener	rator)			Humper.	U.S. EPA ID	Number		
DESIGNATED FACILITY	Facility's Phone: 17c. Signature of Atternate Faci	lity (or Generator)				. I		Month	Day Year
DESI						$\frac{1}{2}$			
¥	18. Designated Facility Owner of Printed/Typed Name	r Operator: Certification of receipt of materials cover DAMEN	Signatur			K		Month	Day Year

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DESIGNATED FACILITY TO GENERATOR

	144									
4	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OHS210020736	2. Page 1 of 3.	Emergency Respon	se Phone	4. Waste 1	Fracking Nur	mber 033	70	9
	5. Generator's Name and Main	Ravenna Anny 5451 State Rout Ravenna, Ohio -358-7312		nerator ^s s Site Addre	ss (if different	than mailing add	ress)		<u> </u>	
	Generator's Phone: 6. Transporter 1 Company Nan	NS FULK 18033	9 2-930 5 477-93177)			US, EPA ID	Number	7975		
	7. Transporter 2 Company Nan		177 L/11 W			U.S. EPA ID		<u>.</u>		
	8. Designated Facility Name ar Facility's Phone:	nd Site Address Americal Land 7915 Chapel St 866-3165 Waynesburg, C	reet			U.S. EPA ID) Number			
	9. Waste Shipping Name	e and Description		10. Con		11. Total	12. Unit			
	1.			No.	Type D7	Quantity	Wt./Vol.			
GENERATOR	Non RCRA	A, Non Regulated Solid Waste				Birt.mm	~~			
	2.									
	3.									
	4.									
	13. Special Handling Instruction	ons and Additional Information			<u> </u>		_			
		ma Non-Haz Soil (LL12) にモギ 109527CH								
	14. GENERATOR'S CERTIFIC	CATION: I certify the materials described above o	n this manifest are not subject to	lederal regulations for	or reporting, pro	oper disposal of I	Hazardous W	aste.		
V	Generator's/Offeror's Printed/Ty $\sqrt{2}$		Signat Signat	2 Touch	The	1		Month	Day	Year 10
INT'L	15. International Shipments Transporter Signature (for expo		Export from U.S.		entry/exit: wing U.S.:					
TER	16. Transporter Acknowledgme Transporter 1 Printed/Typed Na	ent of Receipt of Materials	Signati	Re / J	, 	•		Month	Day	Year
TRANSPORTER	Transporter 1 Printed/Typed Na Address of Kind Transporter 2 Printed/Typed Na		Signati	et a K		€ v		Month	/ 5 Day	10 Year
-+	17. Discrepancy								<u> </u>	
	17a. Discrepancy Indication Sp.	ace Quantity	Туре	Residue	•••	Partial Re	ejection		Full Rejecti	ion
	17b. Alternate Facility (or Gene	rator)		Manifest Reference	number:	U.S. EPA ID	Number			
FACI	Facility's Phone:									
	17c. Signature of Alternate Faci	ility (or Generator)					<u></u>	Month	Day	Year
- DESIG		n mana and a start of a			\sim	1				
- i	18. Designated Facility Owner of Printed/Typed Name	or Operator: Certification of receipt of materials co	overed by the manifest except as Signatu			En		Momith	Day	Year 10

DESIGNATED FACILITY'S COPY

1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736		2. Page 1 of 3	. Emercer by Respons . 30-358-731		4. Waste	Fracking Num	^{ber} 031710
	and the second	Ravenna Arr 8451 State R Ravenna, Ob -358-7312	oute .s no 44200	ion Paul	enerator's Site Addre	ss (if different t			
	 Transporter 1 Company Nan Transporter 2 Company Nan 	USBULK 1801	0642-8	910			U.S. EPA ID U.S. EPA ID U.S. EPA ID	98734	17515
	8. Designated Facility Name ar	nd Site Address					U.S. EPA ID	Number	
	Facility's Phone: 330-8	Americal La 791o Chape 866-3265 Waynesburg		ŝ					
	9. Waste Shipping Name	e and Description			10. Con No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	
GENERATOR	1. Non RCRA	., Non Regulated Solid Was	le/		601	DT	22	T	
CENI	2.								
	3.								
	4.								
	13. Special Handling Instruction	ons and Additional Information							
		na Non-Haz Soil (LL12) #-10952.70H							
	1.01.16								
	14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/Ty	ATION: I certify the materials described abo	ove on this manifest	are not subject to Signa		or reporting pro	per disposal of I	Hazardous Wa	ste. Month Day Year
*	15. International Shipments	k Patterson			Mark				6 15 10
R INT'L	Transporter Signature (for expo 16. Transporter Acknowledgme	· · · · · · · · · · · · · · · · · · ·		Export from U.S		entry/exit: wing U.S.:			
ORTEI	Transporter 1 Printed/Typed Na			Signa		lar			Month Day Year
TRANSPORTER	Transporter 2 Printed/Typed Na 17. Discrepancy	ame Criad Capper	<u> </u>	Signa		D			Month Day Year
	17a. Discrepancy Indication Sp.	ace Quantity	Птуре		Residue		Partial Re	ejection	Full Rejection
	17b. Alternate Facility (or Gene	reter)			Manifest Reference	Number:	U.S. EPA ID	Number	
FACILITY							0.0. EFAID	NUNDO	
ATED F	Facility's Phone: 17c. Signature of Alternate Faci	ility (or Generator)					1		Month Day Year
- DESIGNATED									
		or Operator: Certification of receipt of materi	als covered by the n		<i>H</i>	1 -	-1	1.	Month Day Maca
ᡟ	Printed/Typed Name		************	Signat	ure H	6	115	1/8	Month Day Year
169	-BLC-I 6 Rev. 8/06				·V ·	-9	ESIGNAT	ED FACI	LITY TO GENERATOR

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WASTE MANIFEST 5. Generator's Name and Maili	OH521002073	6	2. Page 1 of 1	3. Emergency Respons 330-358-731		4. Waste 1	racking Nur	^{mber} 0317	'11
	Ravenna 8451 Stat	Attay Anamasi te Route 5 . Ohio 44266	tion Plant	Generator's Site Addres	ss (if different	than mailing add	ress)		
6. Transporter 1 Company Nar 7. Transporter 2 Company Nar	-358-7312 ne <u>D-R-F-FRL-FERRE</u> USBULK 8.00 ne	800-202-9305				U.S. EPA ID	8734 Number	7515	
8. Designated Facility Name ar	Americal 7916 Ch.	l Landfill apel Street burg, Ohio 4468	8			U.S. EPA ID	Number		
Facility's Phone: 5.30-3 9. Waste Shipping Name	ny any take bar share taken taken		And	10. Con	1	11. Total Quantity	12. Unit Wt./Voi.		
1. Non RCRA	. Non Regulated Solid V	Vaste		001	Type []]]	22	T		
2.	1								
3.									
4.	9							4.46	
	ILE # 18952701 CATION: I certify the materials describe yped Name Patters on	ed above on this manifes		to federal regulations for nature Wark	1	roper disposal of F	łazardous W		Day Ye
15. International Shipments	Import to U.S.		Export from U	S Port of e	ntry/exit:				10/1
					•				10/1
Transporter Signature (for expo 16. Transporter Acknowledgme Transporter 1 Printed/Typed Na Transporter 2 Printed/Typed Na	arrie 2 TRAC	4	12		ving U.S.:	le l	1	61	Day Yi Day Ye
Transporter Signature (for expo 16. Transporter Acknowledgme Transporter 1 Printed Typed Na	arreRAC	Ý	12	Date lea nature	•	~ 	7	Month	Day Yi C / Day Ye
Transporter Signature (for expc 16. Transporter Acknowledgme Transporter 1 Printed/Typed Na Transporter 2 Printed/Typed Na 17. Discrepancy	ameRAC	Туре	12	Date lea	ving U.S.:	CC Partial Re	jection	Month	Day Y
Transporter Signature (for expo 16. Transporter Acknowledgme Transporter 1 Printed/Typed Na 1 C C C C C C C C C C C C C C C C C C C	arreRAC	Птуре	12	Date lea nature	ving U.S.:	U.S. EPA ID		Month	Day Yi C / Day Ye
Transporter Signature (for expo 16. Transporter Acknowledgme Transporter 1 Printed/Typed Na Transporter 2 Printed/Typed Na 17. Discrepancy 17a. Discrepancy Indication Sp	ame RAC Quantity	Птуре	12	Date lea	ving U.S.:			Month I	Day Yi C / Day Ye
Transporter Signature (for expo 16. Transporter Acknowledgme Transporter 1 Printed/Typed Na 1 C C C C C C C C C C C C C C C C C C C	ame RAC Quantity	Птуре	12	Date lea	ving U.S.:			Month I	Day Yi Day Ye Rejection

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WASTE MANIFEST	or ID Number OH5210020736		2. Page 1 of	3. Emergency Respon 330-358-73	2			^{mber} 03	1712
Generator's Name and Mailing Address enerator's Phone: 330-358-731	Ravenna Am 8451 State Ravenna, Oh 2	oute 5	ion Plant	Generator's Site Addre	ss (if different				
Transporter 1 Company Name	0642 3910	-262-0365-	A				Number 9873	3475	15
Transporter 2 Company Name Designated Facility Name and Site Addres		The second of the second s				U.S. EPA IC) Number		
cility's Phone: 330-800-3205	Americal La 7916 Chapel	Street	3				Municer		
9. Waste Shipping Name and Descrip				10. Cor No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.		
1. Non RCRA, Non Re	- 			1.00	DT	22	T		
2.					at a				
3.									
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					1-11-27				
I. Ravenna Non-I				5	x				
I. Ravenna Non-I PROFILE # GENERATOR'S CERTIFICATION: I cert	Haz Soil (UL12)	ove on this manifest				oper disposal of	Hazardous W	Mont	
I. Raverina Non-I PROFILE # . GENERATOR'S CERTIFICATION: I cert interator's/Offeror's Printed/Typed Nare Nare . International Shipments	Haz Soil (UL12) 1 095270H	ove on this manifest		J.S. Port of	Patte	oper disposal of	Hazardous W		
I. Ravenna Non-I PROFILE # . GENERATOR'S CERTIFICATION: I cert interator's/Offeror's Printed/Typed Nary . International Shipments . International Shipments . International Shipments	Haz Soil (UL12) 1095270H ify the materials described abo Herson port to U.S.	ove on this manifest	Sig	J.S. Port of	Pate	oper disposal of	Hazardous W	Mont	
I. Ravenna Non-I PROFILE # GENERATOR'S CERTIFICATION: I cert nerator's/Offeror's Printed/Typed Nare International Shipments International Shi	Haz Soil (UL12) 1095270H ify the materials described abo CHERSON port to U.S. of Materials	ove on this manifest	Sig Export from U Sig	J.S. Port of	Patte	oper disposal of I	Hazardous W	Mont	Day
I. Ravemma Non-I PROFILE # GENERATOR'S CERTIFICATION: I cert nerator's/Offeror's Printed/Typed Nare- International Shipments Insporter Signature (for exports only): Transporter Signature (for exports only): Transporter Acknowledgment of Receipt insporter 1 Printed/Typed Name Chart K: Charts Insporter 2 Printed/Typed Name Discrepancy Discrepancy	Haz Soil (UL12) 1095270H ify the materials described abo CHERSON port to U.S. of Materials	ove on this manifest	Sig Export from U Sig	nature Marle J.S. Port of Date les nature	Patte	oper disposal of I		Monti Monti	Day
I. Ravema Non-I PROFILE # GENERATOR'S CERTIFICATION: I cert nerator's/Offeror's Printed/Typed Nare International Shipments International Ship	Haz Soil (UL12) 1095270H Ify the materials described abo Herson port to U.S. of Materials		Sig Export from U Sig	nature Marlin J.S. Port of a Date lea nature	Patt	Partial Re	ejection	Monti Monti	Day 15 Day
Ravemma Non-I PROFILE # GENERATOR'S CERTIFICATION: I cert inerator's/Offeror's Printed/Typed Nare International Shipments Internate Facility (or Generator)	Haz Soil (UL12) 1095270H Ify the materials described abo Herson port to U.S. of Materials		Sig Export from U Sig	nature Market J.S. Port of Date lea nature hature Residue	Patt		ejection	Monti Monti	Day 15 Day
Ravemma Non-I PROFILE # GENERATOR'S CERTIFICATION: I cert inerator's/Offeror's Printed/Typed Nare International Shipments Internate Facility (or Generator) Shifty's Phone:	Haz Soil (UL12) IO95270H ify the materials described abo UHERSON port to U.S. of Materials		Sig Export from U Sig	nature Market J.S. Port of Date lea nature hature Residue	Patt	Partial Re	ejection	Monti Monti	Day Day 1.5 Day Full Rejectio
I. Ravemma Non-I PROFILE # GENERATOR'S CERTIFICATION: I cert inerator's/Offeror's Printed/Typed Nare international Shipments international Shipment	Haz Soil (UL12) IO95270H ify the materials described abo UHERSON port to U.S. of Materials		Sig Export from U Sig	nature Market J.S. Port of Date lea nature hature Residue	Patt	Partial Re	ejection	Monti	Day Day 1.5 Day Full Rejectio
PROFILE # I. GENERATOR'S CERTIFICATION: I cert enerator's/Offeror's Printed/Typed Nare S. International Shipments ansporter Signature (for exports only): 5. Transporter Acknowledgment of Receipt ansporter 1 Printed/Typed Name I. M. C. C.	Haz Soil (UL12) IO95270H Ify the materials described abo Uerson port to U.S. of Materials Quantity ator)	Туре	Sig	nature D.S. Port of U Date lea nature Residue Manifest Reference	Patt	Partial Re	ejection	Monti	Day Day J.J.J. Full Rejectio

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Respons 330-358-731		4. Waste 1	Tracking Nun	^{nber} 031713
5. Generator's Name and Mail Generator's Phone: 330	ing Address Ravenma Au 8451 State I Ravenna, O -358-7312	my Aminumation Plant	Generator's Site Addres	s (if different th			
6. Transporter 1 Company Na 7. Transporter 2 Company Na	US BULK 80	0642-8910			U.S. EPA ID PAD9 U.S. EPA ID	18734	17515
	100 10						
8. Designated Facility Name a Facility's Phone: 330-1	Americal L 7916 Chape				U.S. EPA ID	Number	
9. Waste Shipping Nam	e and Description		10. Cont	·	11. Total Quantity	12. Unit Wt./Vol.	
1. Non RCR.4	, Non Regulated Solid Wa	ste	No. 001	Type DT	Quantity	T	
2.							
3.							
4.							
14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/I	CATION: I certify the materials described a ryped Name PAHERS on		to federal regulations fo nature Marl	r reporting prop	per disposal of H	Hazardous Wa	aste. Month Day Year 6 15 10
15. International Shipments Transporter Signature (for exp	Import to U.S.	Export from U		ntry/exit:			
16. Transporter Signature (16 e.g.) 16. Transporter Acknowledgm Transporter 1 Printed/Typed N Transporter 2 Printed/Typed N	ent of Receipt of Materials	r	ature	- Hora			Month Day Year 6 15 76 Month Day Year
17. Discrepancy							
17a. Discrepancy Indication Sp	2000			A CARLENDER MENT	Partial Re		
	Quantity	Туре	Manifest Reference	Number:		ection	Full Rejection
17b. Alternate Facility (or Gene Facility's Phone:	L Quantity	L] Туре	Manifest Reference	Number:	U.S. EPA ID		Full Rejection
	erator)	L_I Type		Number:			Full Rejection
17b. Alternate Facility (or Gene Facility's Phone: 17c. Signature of Alternate Fac	erator)		Manifest Reference	Number:			
17b. Alternate Facility (or Gene Facility's Phone: 17c. Signature of Alternate Fac	erator)	rials covered by the manifest except	Manifest Reference	e 6	U.S. EPA ID	Number	

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1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH 521002073		f 3. Emergency Respons 330-358-731		4. Waste T	racking Numb	031714
	5. Generator's Name and Mailin Generator's Phone: 330	Ravenna 8451 Stat	Army Anumunition Plan e Route 5 Ohio 44266	Generator's Site Addres	ss (if different th	han mailing addr	ess)	
	 6. Transporter 1 Company Nan 7. Transporter 2 Company Nan 	US BALK PO	0-642-8910			U.S. EPA ID	78734	17515
	8. Designated Facility Name ar					U.S. EPA ID		
		America 7916 Chi	l Landfill apel Street Durg, Obio 44688					
	9. Waste Shipping Name			10. Cont No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	
GENERATOR	1. Non RCRA	. Non Regulated Solid V	Vaste	1001	1 1	22	T	
- GENE	2.							
	3.							
	4.							
	Prof		ed above on this manifest are not subj	ect to federal regulations fo	r reporting prop	per disposal of H	azardous Wasi	e. Month Day Year
	15. International Shipments Transporter Signature (for expo	Import to U.S.	A Export from		ntry/exit:			6 15 16
	16. Transporter Orginatore (for expo Transporter Acknowledgme Transporter 1 Printed/Typed Na	nt of Receipt of Materials	s	ignature (2		Month Day Year
TRANSPORTER	Transporter 2 Printed/Typed Na	LTRACY		ignature	Ç	J	*****	Month Day Year
	17. Discrepancy 17a. Discrepancy Indication Spa	ace Quantity	Туре	Residue Manifest Reference	Numbori	Partial Rej	ection	Full Rejection
FACILITY -	17b. Alternate Facility (or Gener Facility's Phone:	rator)		Manifest Helerence	Number:	U.S. EPA ID	Number	
DESIGNATED FACILITY	17c. Signature of Alternate Faci	líty (or Generator)	<u> </u>					Month Day Year
		or Operator: Certification of receipt of r	naterials covered by the manifest exce		\sim			
¥	Printed/Typed Name	Mun	s s	ignature	Y	ECICALAT	DEACH	Month Day Year

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ł	NON-HAZARDOUS WASTE MANIFEST OHS210020736		mergency Respons 330-358-731		4. Waste T	racking Num	^{wr} 031715
	5. Generator's Name and Mailing Address Ravenna Army 8451 State Rou Ravenna, Ohio	Ammunution Plant te 5	erator's Site Addres	ss (if different th	an mailing addi	ess)	
	Generator's Phone: 330-358-7312						
	6. Transporter 1 Company Name R. & J TRUCKING 800-2				U.S. EPA ID		<u>~17</u>
	USBULK QUO (7. Transporter 2 Company Name	042-8910			U.S. EPA ID	37347 Number	212
	7. Transporter 2 company traine					Hander	
	8. Designated Facility Name and Site Address				U.S. EPA ID	Number	
	Americal Land 7916 Chapel S Waynesburg, (treet			I		
	Facility's Phone: 330-800-3203		10. Cont	tainers	11. Total	12. Unit	
	9. Waste Shipping Name and Description		No.	Type	Quantity	Wt.Nol.	
-	1.		001	DT	22	T	
GENERAION	Non RCRA, Non Regulated Solid Waste						
15	2.						
	3.						New College
			1 A				
	4.						
	13. Special Handling Instructions and Additional Information					L E	
	I. Ravenna Non-Haz Soil (LL12) Profik#1095270H 14. GENERATOR'S CERTIFICATION: I certify the materials described above Generator's/Offeror's Printed/Typed Name Mark Patterson	on this manifest are not subject to fo Signatur		At	ver disposal of F	lazardous Was	ste. Month Day Year 6 6 6 10
	15. International Shipments Import to U.S.	Export from U.S.	Port of e	ntry/exit:			-
-	Transporter Signature (for exports only): 16. Transporter Acknowledgment of Receipt of Materials		Date lea	ving U.S.:			
HANSPOHLEN	Transporter 1 Printed/Typed Name Chad Capaci	Signatur	24	ler	-		Month Day Year
ושעו	Transporter 2 Printed/Typed Name	Signatur 	e (Month Day Year
	17. Discrepancy						
	17a. Discrepancy Indication Space Quantity	Туре	Residue		Partial Re	jection	Full Rejection
	17b. Alternate Facility (or Generator)		Manifest Reference	Number:	U.S. EPA ID	Number	
	Farilitie Bhaser				I		
	Facility's Phone: 17c. Signature of Alternate Facility (or Generator)				<u> </u>		Month Day Year
DESIGNALED FACILLIT		<u>_</u>					
		11.16.19		~ A	1		
	18. Designated Facility Owner or Operator: Certification of receipt of materials Printed/Typed Name			VI			Month Day Year
	Alla	Signatur		V	2		61610
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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020	736	2. Page 1 of	3. Emergency Response 330-358-731		4. Waste	Fracking Nu	^{mber} 03	1716
5. Generator's Name and Mail Generator's Phone: 330	Raven 8451 S	na Army Ammunir State Route 5 na, Ohio 44266	ion Plant	Generator's Site Addre	ss (if different	than mailing add	ress)		
6. Transporter 1 Company Nar 7. Transporter 2 Company Nar	DS BULK	900 (42-8	- DIF			U.S. EPA IC U.S. EPA IC	7873	47515	1
8. Designated Facility Name a	nd Site Address					U.S. EPA ID) Number		·····
Facility's Phone: 330-8		ical Landfill Chapel Street esburg, Ohio 44681	8			1			
9. Waste Shipping Nam				10. Con No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.		
1. Non RCRA	. Non Regulated Soli	d Waste,		001	DT	22	T		
2.		Alla							
3.			+						
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				(1991) 3	1				
	ns and Additional Information na Non-Haz Soil (LL HP95270H	12)							
L Raven Profile 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T Mart	na Non-Haz Soil (LL #1095270H	cribed above on this manifest		to federal regulations fo ature Whath	1	oper disposal of h	Hazardous W	l'aste. Mont	h Day Ye
L Raven Profile 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T Mark 15. International Shipments Transporter Signature (for expo	na Non-Haz Soil (LL H 095270H ATION: I certify the materials des yped Name Pa Herson Import to U.S. orts only):	cribed above on this manifest		s. Port of e	1	oper disposal of H	Hazardous W	Mont	h Day Ye 16 19
L Raven Profile 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T Machine 15. International Shipments Transporter Signature (for expo	na Non-Haz Soil (LL H 095270H CATION: I certify the materials des yped Name Po Herson Import to U.S. orts only): ant of Receipt of Materials ame L MAC	cribed above on this manifest	Sigr	ature S. Port of e Date lea	entry/exit:	oper disposal of P	Hazardous W	Mont	16 19 Day Y
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NON-HAZARDOUS 1. Generator ID Number WASTE MANIFEST 0H5210020736	2. Page 1 of 3.	Emergency Respons 330-358-731		4. Waste	Tracking Numb	^{er} 031	71	7
5. Generator's Name and Mailing Address Ravenna Army Anunua	ution Plant	nerator's Site Addres	ss (if different	than mailing add	ress)			
8451 State Route 5 Ravenna, Ohio 44266	0							
Generator's Phone: 330-358-7312 6. Transporter 1 Company Name 12: 6. 5. 510 (2000) 140 (2000) 140 (2000)				U.S. EPA ID) Number			
US BULK 800 6	42-8910			-	8734	7515		
7. Transporter 2 Company Name				U.S. EPA IE				
8. Designated Facility Name and Site Address				U.S. EPA ID) Number			
Americal Landfill 7916 Chapel Street								
Facility's Phone: 330-800-3205 Waynesburg, Ohio 446	88			I				
9. Waste Shipping Name and Description		10. Con	tainers	11. Total	12. Unit			
		No.	Туре	Quantity	Wt./Vol.			513-511
Non RCRA, Non Regulated Solid Waste		001	TG	22				
2. 2.								
3.			1.	1				
4.								
13. Special Handling Instructions and Additional Information			L.	1		2		
1. Ravenna Non-Haz Soil (LL12)								
Profile#1095270H								
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14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifi Generator's/Offeror's Printed/Typed Name	est are not subject to Signatu		or reporting pl	oper disposal of I	Hazardous Was	Month	Day	Year
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17b. Alternate Facility (or Generator)		Manifest Reference	Number:	U.S. EPA ID	Number			
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Facility's Phone:								
17c. Signature of Alternate Facility (or Generator)	1					Month	Day	Year
17b. Alternate Facility (or Generator) Facility's Phone: 17c. Signature of Alternate Facility (or Generator)						<u>L</u> L		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by th	e manifest except as	noted in Item 179	1-	. /				<u>.</u>
Printed/Typed Name	Signatu	° L	u	6/11	1/2	Month	Day	Year
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1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 3. E	nergency Respons 30-358-731		4. Waste T	racking Numb	*03171	8
	5. Generator's Name and Maili Generator's Phone: 330	Ravenna Army Am 8451 State Route 5 Ravenna, Ohio 442d -358-7312	number Plant	erator's Site Addres	ss (if different t	nan mailing add	ress)		
	6. Transporter 1 Company Nan 7. Transporter 2 Company Nan	ASBULIC 800-00-0	8910			U.S. EPA ID PAD 9 U.S. EPA ID	18734	+7575	
	8. Designated Facility Name ar	nd Site Address				U.S. EPA ID	Number		
	Facility's Phone: 330-8	Americal Landfill 7916 Chapel Street Waynesburg, Ohio	14638						
	9. Waste Shipping Name			10. Con No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.		in the second
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	 4. 13. Special Handling Instruction 		7						
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		r Operator: Certification of receipt of materials covered		ted in Item 17a					
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1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of	3. Emergency Respons 330-358-731		4. Waste 1	Fracking Numb	er031719
	Generator 31 hone.	Ravenna Arm 8451 State Ro Ravenna, Ohi -358-7312	e 44266 	Generator's Site Addres	ss (if different			
	6. Transporter 1 Company Nam 7. Transporter 2 Company Nam	USDULK-BOOK	202-9303 D+DTF 042-8910AS 3	ucking 30.62.6-4	762	U.S. EPA ID	9873	7575
						U.S. EPA ID	Number	
	8. Designated Facility Name an Facility's Phone: 330-8	Americal Lan 7916 Chapel 1 866-3265 Waynesburg,	Sireet			U.S. EPA ID	Number	
	9. Waste Shipping Name	e and Description		10. Con No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	
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CENI	2.							
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Norr RCRA. Non Regulated Solid Waste 2 3. 4. 13. Special Harding Inforctions and Additional information 14. Revenue MonoMax Solid (11.12) Profile#1095270H Seguiar Solid Waste Month Decide Social (11.12) Profile#1095270H Month Decide Social (11.12) Profile#1095270H Seguiars Month Decide Social (11.12) Profile#1095270H Month Decide Social (11.12) Profile#1095270H Seguiars Month Decide Social (11.12) Profile#10952670H Month Decide Social (11.12) Month Decide Materials Tomocolspan="2">Month Decide Materials Tomocolspan="2">Month Decide Materials Tomocolspan="2">Month Decide Materials Tomocolspan= 2 Protect Tripped Name 17. Decrepancy <td< th=""><th></th><th>1.</th><th></th><th></th><th></th><th>+</th><th>+i</th><th></th><th></th></td<>		1.				+	+i			
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NON-HAZARDOUC 1. WASTE MANIFEST	Generator ID Number OH5210020	736	2. Page 1 of	3. Emergency Response 330-358-731		4. Waste 1	Fracking Nu	^{mber} 031721
5. Generator's Name and Mailing A Generator's Phone: 330-33	Raven 8451 S	na Army Ammuni itate Route 5 na. Ohio 44266	tion Plant	Generator's Site Addres	s (if different t	han mailing add	ress)	
6. Transporter 1 Company Name	USBULK	5-800-202-930 5 BDD 642	-8910				9873	475/5
7. Transporter 2 Company Name 8. Designated Facility Name and S	ite Address			n 20 21 21 21 21 21 21 21 21 21 21 21 21 21		U.S. EPA ID		
Facility's Phone: 330-800	Amen 7916 (cal Landfill Thapel Street esburg, Ohio 4468	8			1		
9. Waste Shipping Name an				10. Cont No.	ainers Type	11. Total Quantity	12. Unit Wt./Vol.	
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5. Generator's Name and Mailin	g Address Ravenna A 8451 State Ravenna, C		ion Plant	Generator's Site Addre	iss (if different	than mailing add	ress)			
Generator's Phone: 330- 6. Transporter 1 Company Nam	358-7312	22.22.2				U.S. EPA ID	Number			
	Berner Trucken	ng	330 34	13-5812	/					
7. Transporter 2 Company Nam	6	-				U.S. EPA ID	Number			
8. Designated Facility Name and Facility's Phone: 330-8	Americal 1 7916 Chap		S			U.S. EPA ID	Number			
9. Waste Shipping Name				10. Cor		11. Total	12. Unit			
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i la	Non Regulated Solid We	iste		100	DT	22	T			
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	ia Non-Haz Soil (LL12)	4		5						
L. Ravenr Pro f	na Non-Haz Soil (LL12) Gle # ID 95270 ATION: I certify the materials described	above on this manifest	are not subject t		or reporting pr	oper disposal of H	lazardous W	laste.	ith Day	Year
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	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Pag 1	e 1 of	3. Emergency Response 330-358-731		4. Waste 1	racking Numl	^{ber} 031723
	5. Generator's Name and Malin	Address Ravenna Ar 8451 State F Ravenna, O -358-7312		lant (Generator's Site Addres	s (if different	than mailing add	ress)	
	Generator's Phone: 530- 6. Transporter 1 Company Nan		0-262-9365 330 34	35	5812		U.S. EPA ID	Number	
	7. Transporter 2 Company Nan	ne J					U.S. EPA ID	Number	
	8. Designated Facility Name an	Americal L 7916 Chape	andfill el Street g, Ohio 44688				U.S. EPA ID	Number	
	Facility's Phone: 330-6 9. Waste Shipping Name				10. Conta	ainers	11. Total	12. Unit	
	1.				No.	Type DT	Quantity ZZ	Wt./Vol.	÷
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	14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/Ty	ATION: I certify the materials described a uped Name	bove on this manifest are not			-	oper disposal of I	Hazardous Was	ste. Month Day Year
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	17. Discrepancy 17a. Discrepancy Indication Sp.	ace Quantity	П туре		Residue		Partial Re	ijection	Full Rejection
FACILITY -	17b. Alternate Facility (or Gene	rator)			Manifest Reference I	NUMDEr:	U.S. EPA ID	Number	
ATED FA	Facility's Phone: 17c. Signature of Alternate Faci	ility (or Generator)							Month Day Year
DESIGNATED				L					
	18. Designated Facility Owner of Printed/Typed Name	or Operator: Certification of receipt of mate				\bigcap	• • • • • •		Month Day Year
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1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of	3. Emergency Respons 330-358-731		4. Waste	Fracking Numb	°031724	
		Ravenna Ai 8451 State I Ravenna, C -358-7312	bhio 44266	Generator's Site Addre	ss (if different				
	 Transporter 1 Company Nan Transporter 2 Company Nan 	USBULK 8001	642.8910			U.S. EPA ID U.S. EPA ID U.S. EPA ID	187347	1575	
	8. Designated Facility Name ar	nd Site Address				U.S. EPA ID	Number	*****	
	Facility's Phone: 330-8	Americal L 7916 Chap Waynesbu							
	9. Waste Shipping Name	e and Description		10. Con No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.		
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	17a. Discrepancy Indication Sp.	ace Quantity	Туре	Residue	Number	Partial Re	ejection	Full Rejection	1
- ACILITY -	17b. Atternate Facility (or Gener Facility's Phone:	rator)		Manifest Reference	Number:	U.S. EPA ID	Number		
DESIGNATED FACILITY	17c. Signature of Alternate Faci	lity (or Generator)						Month Day	Year
	18. Designated Facility Owner of	or Operator: Certification of receipt of mate	arials covered by the manifest event	as noted in Item 17a					
V	Printed/Typed Name			lature BF		6/1	סןרי		Year

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DESIGNATED FACILITY TO GENERATOR
1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH521002073	5	2. Page 1 of l	3. Emergency Respon 330-358-731		4. Waste 1	racking Nu	^{mber} 031	.72	C
	5. Generator's Name and Maili Generator's Phone: 330	Ravenna 8451 Stat	Army Arumuni e Route 5 Ohio 44260	dion Plant	Generator's Site Addre	ss (if different t	than mailing add	ress)			
(Transporter 1 Company Nar Transporter 2 Company Nar 	15 BULK	800 642	B9 10			U.S. EPA ID U.S. EPA ID	987	34751	5	
	3. Designated Facility Name a	nd Site Address	and the same and set of the set				U.S. EPA ID	Number			
	Facility's Phone: 330-8	7916 Ch	Landfill apel Street ourg, Ohio 4468	88			I				
	9. Waste Shipping Nam	e and Description		1.000.004	10. Con No.		11. Total Quantity	12. Unit Wt./Vol.			
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1	1. Raven	na Non-Haz Soil (LL12)	70H		it to federal regulations for nature Mark	or reporting pro	pper disposal of H	Hazardous W	Month	Day	Year
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1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH521002073	36	2. Page 1 of	3. Emergency Respons 330-358-731		4. Waste 1	racking Numb	^{er} 031726
	5. Generator's Name and Maili Generator's Phone: 330	Ravenna 8451 Sta	Army Ammuni te Route 5 1, Ohio 44266	tion Plant	Generator's Site Addres	ss (if different t	han mailing add	ress)	
	6. Transporter 1 Company Nar	DHOTTWCKI	ng 320	348-1	180		U.S. EPA ID		
	7. Transporter 2 Company Nar	ne)				U.S. EPA ID		
	8. Designated Facility Name and Facility's Phone: 330-8	America 7916 Cl	il Landfill napel Street burg, Oluo 4468	8			U.S. EPA ID	Number	
	9. Waste Shipping Name	e and Description			10. Cont No.	ainers Type	11. Total Quantity	12. Unit Wt./Voi.	
GENERATOR	t. Non RCRA	, Non Regulated Solid V	Waste		001	DT	U	T	
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		na Non-Haz Soil (LL12							
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FACILITY -	17b. Alternate Facility (or Gene	rator)			Manifest Reference	Number:	U.S. EPA ID	Number	
DESIGNATED FA	Facility's Phone: 17c. Signature of Alternate Fac	ility (or Generator)		1			1		Month Day Year
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¥	18. Designated Facility Qwner of Printed/Typed Name	or Operator: Certification of receipt of	materials covered by the		as noted in them Tha	2	~		Month Day Year
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Address Bridge

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Numb	10020 ⁻ 36		2. Page 1 of	3. Emerg	ency Respons	2	4. Waste	Tacking Null	^{nber} 032	L / 2 /	1
5. Generator's Name and Maili	8	Ravenna Anny A 8451 State Route Ravenna, Choo 11	inmunitie 5 1260	n Plant	Generato	or's Site Addres	ss (if different	than mailing add	ress)			
Generator's Phone: 3300 5. Transporter 1 Company Nar	-358-7312	CUINC 800-262	112-5					U.S. EPA ID) Number			
	Berner		336-3	343-5	5812	7		1				
. Transporter 2 Company Nar	ne	J						U.S. EPA IE) Number			
. Designated Facility Name ar	nd Site Address							U.S. EPA ID) Number			
330-5		Americal Landfil 7016 Chapel Stre Wigoresburg, Oh	21					Ī				
acility's Phone: 230-0 9. Waste Shipping Name						10. Cont	tainers	11. Total	12. Unit			
1.						No.	Туре	Quantity	Wt./Vol.			
Non RCRA	. Non Regulated	d Solid Waste		1		001		22	far a			********
2.												
3.												
4.			5			₩4₩ <u>₩</u>				ly three players and a constitute	o	
1							1	1				
1. Raven	na Non-Haz So	11(1.),12:					J		E			
1. Raven Prvfil 4. generator's certific	na Non-Haz Nor L#/0952; ATION: I certify the mat yped Name	n1 (1.1.12) 7 <i>OH</i> terials described above on t	his manifest ar		t to fødera nature	I regulations fo	r reporting pr	oper disposal of I	Hazardous Wa	Month	Day	Year
Raven Profil GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T Vulue 5. International Shipments ransporter Signature (for expo	na Non-Haz So L # / 0 952 ATION: I certify the mat yped Name $L \qquad Pa H$ \Box Import to U.S orts only):	nt (1.1.12) 70H terials described above on t CrCDM			nature M	Port of e	r reporting pr	oper disposal of I	Hazardous Wa		Day	Year IØ
Raven Profil GENERATOR'S CERTIFIC ienerator's/Offeror's Printed/Ty S. International Shipments ransporter Signature (for expo 6. Transporter Acknowledgme	na Non-Haz So L #/0.952 ATION: I certify the mative vped Name L Pa H Import to U.S orts only): int of Receipt of Material	nt (1.1.12) 70H terials described above on t CrCDM		Sigr	nature M	Port of e	- Par	oper disposal of I	Hazardous Wa	Month	Day	10
1. Raven. Pwfil 4. GENERATOR'S CERTIFIC ienerator's/Offeror's Printed/T 5. International Shipments ransporter Signature (for expo 6. Transporter Acknowledgme ransporter 1 Printed/Typed Na	na Non-Haz So L #/0.952 ATION: I certify the mat yped Name L + A + A Import to U.S orts only): ame G = A	nt (1.1.12) 70H terials described above on t CCCDM 3.		Sigr	nature J.S. nature	Port of e	- Par	oper disposal of P	Hazardous Wa	Month	Day	10
Raven Profile A. GENERATOR'S CERTIFIC ienerator's/Offeror's Printed/Ty 5. International Shipments ransporter Signature (for expo 6. Transporter Acknowledgme ransporter 1 Printed/Typed Na ransporter 2 Printed/Typed Na 7. Discrepancy	na Non-Haz So L # / 0 952; ATION: I certify the mat yped Name L Pa H Import to U.S prts only): anne G a $aanne$	nt (1.1.12) 70H terials described above on t CrSDM 3. Is		Sigr	nature J.S. nature	Port of e	- Par	oper disposal of I		Month	7 Day 7	Year Year Year
Raven Pwfil A. GENERATOR'S CERTIFIC inenerator's/Offeror's Printed/Ty 5. International Shipments ransporter Signature (for expo 6. Transporter Acknowledgme ransporter 1 Printed/Typed Na ransporter 2 Printed/Typed Na Tobscrepancy 7. Discrepancy	na Non-Haz So L#10952; ATION: I certify the mat yped Name L Pa H Import to U.S orts only]: int of Receipt of Material ame ace Quantity	nt (1.1.12) 70H terials described above on t CrSDM 3. Is		Sigr	nature J.S. nature	Port of e Date leav			ejection	Month	Day 17 Day	Year Year
Raven Poolut A. GENERATOR'S CERTIFIC ienerator's/Offeror's Printed/Ty S. International Shipments ransporter Signature (for expo 6. Transporter Acknowledgme ransporter 1 Printed/Typed Na ransporter 2 Printed/Typed Na 7. Discrepancy 7a. Discrepancy 7b. Alternate Facility (or Gene acility's Phone:	na Non-Haz So L # / 0 952; ATION: I certify the mat yped Name $L \qquad Pa H$ \Box Import to U.S ports only): int of Receipt of Material arre ace Quantity rator)	nt (1.1.12) 70H terials described above on t CrSDM 3. Is		Sigr	nature J.S. nature	Port of e Date lear		Partial Re	ejection	Month	Day Day Day Day Full Rejection	Year Year
Raven Pwfil Generator's/Offeror's Printed/Ty enerator's/Offeror's Printed/Ty S. International Shipments ransporter Signature (for expo 3. Transporter Acknowledgme ransporter 1 Printed/Typed Na ransporter 2 Printed/Typed Na rans	na Non-Haz So L # / 0 952; ATION: I certify the mat yped Name $L \qquad Pa H$ \Box Import to U.S ports only): int of Receipt of Material arre ace Quantity rator)	nt (1.1.12) 70H terials described above on t CrSDM 3. Is		Sigr	nature J.S. nature	Port of e Date lear		Partial Re	ejection	Month	Day Day Day Day Full Rejection	Year /C Year
A. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T 25. International Shipments Transporter Signature (for expo 6. Transporter Acknowledgme Transporter 1 Printed/Typed Na Transporter 2 Printed/Typed Na Transporter 2 Printed/Typed Na To Discrepancy 7a. Discrepancy 7b. Alternate Facility (or Gene acility's Phone: 7c. Signature of Alternate Faci	na Non-Haz So L #/0 9527 ATION: I certify the mat yped Name L Pa H Import to U.S ports only): Int of Receipt of Material arre ace ace Quantity rator) litty (or Generator)	nt (1.1.2) 70H terials described above on t CVSDM S. Is	е] туре	Sigr	nature J.S. nature Manif	Port of e Date lear		Partial Re	ejection	Month	Day Day Day Day Full Rejection	Year Year Year
Raven Profile A. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/Ty S. International Shipments ransporter Signature (for expo 6. Transporter Acknowledgme ransporter 1 Printed/Typed Na ransporter 2 Printed/Typed Na 7. Discrepancy 7a. Discrepancy 7b. Alternate Facility (or Gene acility's Phone:	na Non-Haz So L #/0 9527 ATION: I certify the mat yped Name L Pa H Import to U.S ports only): Int of Receipt of Material arre ace ace Quantity rator) litty (or Generator)	nt (1.1.2) 70H terials described above on t CVSDM S. Is	е] туре	Sigr	nature J.S. nature Manif	Port of e Date lear		Partial Re	ejection	Month	Day Day Day Day Day Day	Year Year Year

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1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH 5210020736		2. Page 1 of	3. Emergency Respons 330-358-731		4. Waste 1	Fracking Numb	*03172	8
	5. Generator's Name and Mail <u>Generator's Phone: 330</u> 6. Transporter 1 Company Nar 7. Transporter 2 Company Nar	Ravenna A 8451 State Ravenna, (-358-7312 R&J TRUCKING 8 Berner Truck	Dhio 44266		Generator's Site Addres		U.S. EPA ID	Number		
	8. Designated Facility Name and Facility's Phone: 330-8	Americal 7916 Char		8	* 107		U.S. EPA ID	Number		
	9. Waste Shipping Nam				10. Con		11. Total	12. Unit		
GENERATOR	2579.1	, Non Regulated Solid Wa	aste		No.	Type DT	Quantity	Wt./Vol.		
	2.									
	4.									
	Profile	na Non-Haz Soil (LL12) HID952704 ATION: I certify the materials described yped Name			to federal regulations fo	or reporting pro	per disposal of F	łazardous Wast	e. Month Day	Year
	15. International Shipments	Inport to U.S.	<u>n</u>		S. Port of e	entry/exit:			617	1/10
	Transporter Signature (for expo 16. Transporter Acknowledgme		Av 1998 and 1998 and 1999 and		Date lea	wing U.S.:				
TRANSPORTER	Transporter 1 Printed/Typed Na Transporter 2 Printed/Typed Na	ame KAISON	/		ature Sru	ien 4	arso		Month Day Month Day	Year IO Year
	17. Discrepancy 17a. Discrepancy Indication Sp	ace Quantity	Туре		Residue Manifest Reference	Number	Partial Re	jection	Full Reject	
DESIGNATED FACILITY -	17b. Alternate Facility (or Gene Facility's Phone: 17c. Signature of Alternate Fac				manifot ridicience	Humbel.	U.S. EPA ID	Number	Month Day	Year
- DESIGNAT										
		or Operator: Certification of receipt of ma	terials covered by the	manifest except	as noted in Item #a	1 1	1	1		
↓[Printed/Typed Name			Sign	ature BP	-61	171	10	Month Day	Year

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	OH521002	20736	2.1 age 1 01	3. Emergency Responses 330-358-731		4. Waste 1	Taoking Ha	^{mber} 03	1729
5. Generator's Name and Mai Generator's Phone: 330	Rave 8451	enna Army Ammunit State Route 5 mna, Ohio 44266	ion Plant	Generator's Site Addre	ss (if different t	han mailing add	ress)		
6. Transporter 1 Company Na	USBULK	NG 800-262-9365. 2 800 642	-8911	0			87 34	1575	
7. Transporter 2 Company Na	me					U.S. EPA ID	Number		
8. Designated Facility Name a	Ame 791e	erical Landfill 5 Chapel Street mesburg, Ohio 44688	3			U.S. EPA ID	Number		
9. Waste Shipping Narr	e and Description			10. Con No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.		
1. Non RCR2	Non Regulated So	lid Waste		001	DT	22	1.		
2.			4						
3.									
4.			* *						
13. Special Handling Instructi	ons and Additional Information Ina Non-Haz Scill (L	L12)					<u> </u>		
1 Raven Profil	Ina Non-Haz Soil (L L # 1095270F CATION: I certify the materials d	described above on this manifest		to federal regulations for nature Marke	7	per disposal of H	Hazardous W	/aste. Mopt	h Day Year 7 1 6
L Raven Profil 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T Generator's/Offeror's Printed/T 15. International Shipments Transporter Signature (for exp	Ina Non-Haz Soil (L CATION: 1 certify the materials of yped Name L Pa Hers Import to U.S. orts only):	described above on this manifest		.S. Port of e	7	per disposal of F	łazardous W		h Day Year 7 6
L Raven Profil 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T Way 15. International Shipments	Ina Non-Haz Soil (L CATION: I certify the materials of Speed Name L Pa Hevs Import to U.S. orts only): ent of Receipt of Materials ame L TRAC	described above on this manifest	Sigr Export from U Sigr	.S. Port of e	_fal	per disposal of F	Hazardous W		Day Year
1 Raven Profil 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T MAD 15. International Shipments Transporter Signature (for exp 16. Transporter Acknowledgm Transporter 1 Printed/Typed N VICTOR	Ina Non-Haz Soil (L L # 1095270F CATION: I certify the materials of yped Name L Pa Hers Import to U.S. orts only): ent of Receipt of Materials ame Ame	described above on this manifest	Sigr Export from U Sigr	hature I.S. Port of e Date lea hature hature Residue	al	per disposal of F	7	Mopt	Day Year
L Raven Profil 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T Generator's/Offeror's Printed/T May 15. International Shipments Transporter Signature (for exp 16. Transporter Signature (for exp 16. Transporter Acknowledgm Transporter 1 Printed/Typed N Transporter 2 Printed/Typed N Transporter 2 Printed/Typed N 17. Discrepancy	ama Non-Haz Soil (L L # 1095270F CATION: I certify the materials of yord Name L Pa Hevs Import to U.S. orts only): ent of Receipt of Materials ame Dace Quantity	described above on this manifest	Sigr Export from U Sigr	hature I.S. Port of e Date lea hature	al	tu (Z	Mopt	 7 6 Day Year / 7 16 h Day Year
Raven Profil 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T MAA 15. International Shipments Transporter Signature (for exp 16. Transporter Acknowledgm Transporter 1 Printed/Typed N MAA Transporter 2 Printed/Typed N 17. Discrepancy 17a. Discrepancy Indication Sp	ame Non-Haz Soil (L L # 1095270F CATION: I certify the materials of yped Name L Pa Hers Import to U.S. orts only): ent of Receipt of Materials ame Dace Quantity erator)	described above on this manifest	Sigr Export from U Sigr	hature I.S. Port of e Date lea hature hature Residue	al		Z	Mopt	 7 6 Day Year / 7 9 C h Day Year
L Raven Profil 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T May 15. International Shipments Transporter Signature (for exp 16. Transporter Acknowledgm Transporter 1 Printed/Typed N Transporter 2 Printed/Typed N 17. Discrepancy 17a. Discrepancy Indication Sp 17b. Atternate Facility (or Gene Facility's Phone:	ame Non-Haz Soil (L L # 1095270F CATION: I certify the materials of yped Name L Pa Hers Import to U.S. orts only): ent of Receipt of Materials ame Dace Quantity erator)	described above on this manifest	Sigr Export from U Sigr	hature I.S. Port of e Date lea hature hature Residue	al		Z	Mopt	 7 6 Day Year / 7 9 C h Day Year
I. Raven Profil A. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T May 15. International Shipments Transporter Signature (for exp 16. Transporter Acknowledgm Transporter 1 Printed/Typed N Transporter 2 Printed/Typed N 17. Discrepancy 17a. Discrepancy 17b. Atternate Facility (or Gene Facility's Phone: 17c. Signature of Alternate Fac	ana Non-Haz Soil (L L H 10952 70H CATION: I certify the materials of yped Name L Pa Hers Import to U.S. orts only): ent of Receipt of Materials ame Dace Quantity erator) Sility (or Generator)	described above on this manifest	Sigr	Alter Andrew And	al		Z	Mopt	I I I I I I I n Day Year I I I I Day Year I I Full Rejection I I I n Day Year

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	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736		2. Page 1 of	3. Emergency Respons 330-358-731		4. Waste 1	Fracking Numb	^{er} 031730
		Ravenna A 8451 State Ravenna, C -358-7312		ion Plant	Generator's Site Addres	s (if different		,	
	6. Transporter 1 Company Nan	ILS BILK E	10-262-9365 300 642 9	8910				987	347575
	7. Transporter 2 Company Nan			-			U.S. EPA ID		
	8. Designated Facility Name an Facility's Phone: 330-8	Americal I 7916 Chap		8			U.S. EPA ID) Number	
	9. Waste Shipping Name		- <u></u>		10. Cont No.	ainers Type	11. Total Quantity	12. Unit Wt./Vol.	
GENERATOR	1. Non RCRA	., Non Regulated Solid Wa	iste		001	DT	22	Ţ,	
GENE	2.								
	3.								
	4.								
		na Non-Haz Soil (LL12) e#1095270H							
V	14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/Ty	ATION: I certify the materials described yped Name L Patterson			to federal regulations for ature		oper disposal of H	Hazardous Was	te. Month Day Year
INT'L	15. International Shipments Transporter Signature (for expo	Import to U.S.		Export from U.		ntry/exit: ving U.S.:			······································
TRANSPORTER	16. Transporter Acknowledgme Transporter 1 Printed/Typed Na		r	Sign:	ature	ú			Month Day Year
TRAN	Transporter 2 Printed/Typed Na	ame		Sign:	ature				Month Day Year
	17. Discrepancy 17a. Discrepancy Indication Spa	ace Quantity	Птуре		Residue		Partial Re	ejection	Full Rejection
FACILITY	17b. Alternate Facility (or Gener Facility's Phone:	rator)			Manifest Reference	Number:	U.S. EPA ID	Number	
DESIGNATED FACILITY	17c. Signature of Alternate Faci	lity (or Generator)							Month Day Year
		or Operator: Certification of receipt of mat	erials covered by the r		<i>H</i>	1-	, /		Month Day Var
169	Printed/Typed Name			Signa	19/				Month Day Year

Sumding a Summer management with a set of m

1	NON-HAZARDOUS WASTE MANIFEST	A. Generator ID Number OH5210020736		f 3. Emergency Respons 330-358-731		4. Waste	Fracking Numb	^{er} 031731
	5. Generator's Name and Maili Generator's Phone: 330	Ravenna A 8451 State	army Ammunition Plant Route 5 Ohio 44266	Generator's Site Addre	ss (if different	than mailing add	ress)	
	6. Transporter 1 Company Nan	NO TOUCKING B	00-202-9305 30-626-476Z	I		U.S. EPA ID	Number	
	7. Transporter 2 Company Nan	ne me				U.S. EPA ID	Number	
	8. Designated Facility Name ar	nd Site Address Americal	Landfil			U.S. EPA ID	Number	
	Facility's Phone: 330-8	7916 Cha				1		
	9. Waste Shipping Name	e and Description		10. Con No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	
GENERATOR	1. Non RCRA	, Non Regulated Solid W	aste	001	DT	22	112	
GENE	2.		13					
	3.			APPEND				
	4.							
	13. Special Handling Instruction							
		na Non-Haz Soil (LL.12)						
	[[]]	10110101						
		ATION: I certify the materials described	above on this manifest are not subje	ct to federal regulations fo	or reporting pro	oper disposal of I	Hazardous Was	ite.
↓	Generator's/Offeror's Printed/T	Patterson	Si	Mach	the			Month Day Year
INT'L	15. International Shipments Transporter Signature (for expo	Import to U.S.	Export from		entry/exit: ving U.S.:		1	
	16. Transporter Acknowledgme	nt of Receipt of Materials			ving 0.5.	_// //	/	
TRANSPORTER	Transporter 1 Printed/Typed Na Transporter 2 Printed/Typed Na	ENglist		gnature gnature	21	ful-		Month Day Year
	17. Discrepancy 17a. Discrepancy Indication Spi	ace Quantity	Туре	Residue			viection	Full Rejection
		Les Goundy		Manifest Reference	Number		joouon	
λ LIJ	17b. Alternate Facility (or Gene	rator)			tumber.	U.S. EPA ID	Number	
FACI	Facility's Phone:							
DESIGNATED FACILITY	17c. Signature of Alternate Faci	ility (or Generator)						Month Day Year
- DESI								
		or Operator: Certification of receipt of ma			V)	······	
¥	Printed/Typed Name	My a	2 ^{Si}	gnature	N	h		Month Day Year
169	-BLC-I 6 Rev. 8/06			\sim	ſ	SIGNAT	ED FACIL	ITY TO GENERATOR

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736		2. Page 1 of	3. Emergency Respons 330-358-731		4. Waste	Tracking Numb	*031732
5. Generator's Name and Mailin Generator's Phone: 330	Ravenna A 8451 State	rmy Ammunit Route 5 Dhio 44200	ion Plant	Generator's Site Addres	ss (if different	than mailing add	iress)	
6. Transporter 1 Company Nan	R & J TRUCKING 8	00-262-9305 #44.7	221521	13-5817	<u>Kan - 6 (00 - 7 (0</u>)	U.S. EPA ID) Number	
7. Transporter 2 Company Nan	Bemer Trucking	p 163		<u>i)</u>		U.S. EPA IC) Number	
8. Designated Facility Name an Facility's Phone: 330-8	Americal 7916 Char		8			U.S. EPA ID) Number	
9. Waste Shipping Name	500-1120.5	~		10. Cont		11. Total	12. Unit	*****
1.	•			No.	Type DT	Quantity 22	Wt./Vol.	
	. Non Regulated Solid W	iste						
2.								
3.				ay.				
4.								
13. Special Handling Instructio	ns and Additional Information							
	2 1 1			to federal regulations fo ature Mind	INL	oper disposal of I	Hazardous Wasi	Month Day Yea
15. International Shipments	Import to U.S.	\	Export from U.	1				6 17 10
Transporter Signature (for expo	rts only):			Date leav				
16. Transporter Acknowledgme Transporter 1 Printed/Typed Na Transporter 2 Printed/Typed Na	Gun		Sign	ature	Ł		•	Month Day Yea
17. Discrepancy 17a. Discrepancy Indication Spa	ace Quantity	Птуре		Residue		Partial Re	ejection	Full Rejection
17b. Alternate Facility (or Gener	rator)			Manifest Reference	Number:	U.S. EPA ID	Number	
Facility's Phone: 17c. Signature of Alternate Faci	lity (or Generator)							Month Day Yea
18. Designated Facility Owner o	r Operator: Certification of receipt of ma	terials covered by the r	nanifest except a	as noted in Item 17a		1	1	a na an
Printed/Typed Name			Signa 	ature b	P	6/17	118	Month Day Year
-BLC-I 6 Rev. 8/06				,-	Ċ	ESIGNAT	ED FACIL	ITY TO GENERAT

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NON-HAZARDOU WASTE MANIFES		Number H5210020736	2. Page 1 of]	3. Emergency Respons 330-358-731		4. Waste	Fracking Num	^{ber} 031733
5. Generator's Name and Generator's Phone:	Mailing Address 330-358-7312	Ravenna Artny 8451 State Rou Ravenna, Oluo		Generator's Site Addre	ess (if different	than mailing add	ress)	
6. Transporter 1 Compan		RUCKING 800-2		710		U.S. EPA ID	Number	
7. Transporter 2 Compan	y Name	rucking #419	330-345-5	812		U.S. EPA ID	Number	
8. Designated Facility Na	me and Site Address					U.S. EPA ID	Number	
	30-866-3265	Americal Lanc 7916 Chapel S Waynesburg, (treet			I		
raciny strione.	Name and Description	- 1977 - 1977 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987		10. Con		11. Total Quantity	12. Unit Wt./Vol.	
1. r				No.	Type DT	ZZ		
Non RC	RA, Non Regi	ilated Solid Waste						
2. 5		A						
3.								
4.								
Generator's/Offeror's Prin	ted/Typed Name	he materials described above	on this manifest are not subject Sign	to federal regulations for nature March /	or reporting pro	oper disposal of h	Hazardous Was	ste. Month Day Year
Transporter Signature (for	its Import	to U.S.	Export from U		entry/exit: aving U.S.:			
	dgment of Receipt of N	laterials	Çing	nature		г		Month Day Year
16. Transporter Acknowle Transporter 1 Beinted/Typ	2 /10/	YOR			(a	m	19 	Month Day Year
17. Discrepancy			l	*****				
17a. Discrepancy Indication	on Space Qua	intity	Туре	Residue		Partial Re	ejection	Full Rejection
17b. Alternate Facility (or	Generator)			Manifest Reference	Number:	U.S. EPA ID	Number	
17b. Alternate Facility (or Facility's Phone: 17c. Signature of Alternat	e Facility (or Generator		1					Month Day Year
			<u> </u>					
18. Designated Facility Ov	wner or Operator: Certil	ication of receipt of materials	covered by the manifest except	as noted in Item 17a			1	
Printed/Typed Name				lature W		1,7	10	Month Day Year
59-BLC-I 6 Rev. 8/06					ų	DESIGNAT	ED FACIL	ITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH521002073d	5	2. Page 1 of	3. Emergency Respon 330-358-731		4. Waste 1	Fracking Nu	^{mber} 031	.734
5. Generator's Name and Mailing	Ravenna 8451 Stat	Army Ammun e Route 5 Ohio 44200	tion Plant	Generator's Site Addre	ss (if different t	than mailing add	ress)		
Generator's Phone: 330-2 6. Transporter 1 Company Name	USBULK QC	800-262-9365	AID			U.S. EPA ID		4754	5
7. Transporter 2 Company Name	US BUCH BL		5110			U.S. EPA ID			<u>.</u>
8. Designated Facility Name and	America 7916 Chi	l Landfill apel Street				U.S. EPA ID) Number		
Facility's Phone: 330-8(9. Waste Shipping Name	0"3203	ning, Ohio 4468	<u></u>	10. Cor No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.		
1. Non RCRA.	Non Regulated Solid V	vaste		001	DT	ZZ	Ţ		
2.								4 19 19	
3.									
4.									1.
13. Special Handling Instruction	a Non-Haz Sod (11.12)								
13. Special Handling Instruction 1. Ravenn Rodal 14. GENERATOR'S CERTIFICA Generator's/Offeror's Printed/Typ	a Non-Haz Soil (LL12) e#1095270F	ed above on this manifes		to federal regulations for ature	pr reporting pro	oper disposal of F	Hazardous W	Month	Day Yea
13. Special Handling Instruction I. Ravenn Road 14. GENERATOR'S CERTIFICA	a Non-Haz Soil (LL12) e#1095270F	ed above on this manifes		s. Port of d	or reporting pro	oper disposal of t	Hazardous W		Day Yea
13. Special Handling Instruction 1. Ravenn Rooff 14. GENERATOR'S CERTIFICA Generator's/Offeror's Printed/Type 15. International Shipments Transporter Signature (for export 16. Transporter Acknowledgment Transporter 1 Printed/Typed Nan Transporter 2 Printed/Typed Nan	a Non-Haz Soil (LI, 12) eH1095270H TION: I certify the materials describe red Name A HCrSi import to U.S. s only): t of Receipt of Materials ne	ed above on this manifes	Sign	s. Port of d	att entry/exit:	oper disposal of F	Hazardous W	Month	Day Yee
13. Special Handling Instruction 1. Ravenn Posfil 14. GENERATOR'S CERTIFICA Generator's/Offeror's Printed/Typ 15. International Shipments Transporter Signature (for export 16. Transporter 1 Printed/Typed Nan Transporter 1 Printed/Typed Nan VICLON	a Non-Haz Soil (LL12) eH1095270H TION: I certify the materials describe red Name Patters in Import to U.S. s only): t of Receipt of Materials ne he TRACY	ed above on this manifes	Sign	ature	att entry/exit:	oper disposal of H		Month	Day Yes
13. Special Handling Instruction 1. Raverm Robal 14. GENERATOR'S CERTIFICA Generator's/Offeror's Printed/Typ 15. International Shipments Transporter Signature (for export 16. Transporter 1 Printed/Typed Nam Transporter 2 Printed/Typed Nam Transporter 2 Printed/Typed Nam T7. Discrepancy 17a. Discrepancy Indication Space 17b. Attemate Facility (or General	a Non-Haz Soil (LL.12) e#1095270F TION: I certify the materials describe we have Pattersz Import to U.S. s only): to f Receipt of Materials ne TRACY age Quantity	ed above on this manifes	Sign	ature	Att antry/exit: aving U.S.:		ejection	Month	Day Yea
13. Special Handling Instruction 1. Ravenm Rooff 14. GENERATOR'S CERTIFICA Generator's/Offeror's Printed/Type 15. International Shipments Transporter Signature (for export 16. Transporter 1 Printed/Typed Nan Transporter 2 Printed/Typed Nan Transporter 2 Printed/Typed Nan 17. Discrepancy 17a. Discrepancy Indication Space	a Non-Haz Soil (LL12) eH 1095270H TION: I certify the materials describe red Name Pattersis bed Name Pattersis tof Receipt of Materials The TRACY a Quantity tor)	ed above on this manifes	Sign	ature S. Port of o Date lea ature ature Residue	Att antry/exit: aving U.S.:		ejection	Month	Day Yea
13. Special Handling Instruction 1. Ravenm Profil 14. GENERATOR'S CERTIFICA Generator's/Offeror's Printed/Type 15. International Shipments Transporter Signature (for export 16. Transporter Acknowledgment Transporter 2 Printed/Typed Nan T. Discrepancy 17a. Discrepancy Indication Space 17b. Alternate Facility (or Genera Facility's Phone: 17c. Signature of Alternate Facilit	a Non-Haz Soil (LL12) eH 1095270H TION: I certify the materials describe red Name Pattersis bed Name Pattersis tof Receipt of Materials The TRACY a Quantity tor)	ed above on this manifes	Sign	ature	Att antry/exit: aving U.S.:		ejection	Month	Day Yea

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH521	n	2	l. Page 1 of	3. Emergency Re 330-358-		4. Waste	I racking Nu	^{imber} 032	L/35
5. Generator's Name and Mail Generator's Phone: 330	к 8	lavenna Arnıy An 451 State Route 5 Lavenna, Ohio 442	ŝ	n Plant	Generator's Site A	ddress (if differen	t than mailing add	dress)		
6. Transporter 1 Company Nat	Berner	Trucking	146	3 3	30343	5812	U.S. EPA II			
7. Transporter 2 Company Nat	ne	5					U.S. EPA II	D Number		
8. Designated Facility Name a Facility's Phone: 330-8		Americal Landfill 1916 Chapel Stree Waynesburg, Ohio	;t				U.S. EPA II	D Number		
9. Waste Shipping Nam	e and Description					Containers	11. Total	12. Unit		
1. Non RCRA	, Non Regulated	l Solid Waste			00 I	Type DT	Quantity 22	T		
3.	1									
4.										
	na Non-Haz Soi	(LL12)								
I. Raven Prof	na Non-Haz Soi HIQPE	(LL12) 52704 rials described above on thi	is manifest ar		t to federal regulation pature Turk	ons for reporting p	roper disposal of	Hazardous W	Vaste. Month	Day 1
1. Raven Prof. A. 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T Way 1 15. International Shipments Transporter Signature (for expo	ATION: I certify the mate yped Name Patta Import to U.S. orts only):	rials described above on the			J.S. Por	t of entry/exit:	roper disposal of	Hazardous W	Month	Day
1. Raven Profile 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T March 15. International Shipments Transporter Signature (for expo 16. Transporter 1 Printed Typed N.	na Non-Haz Soi H 1 699 ATION: I certify the mate yped Name Putto Import to U.S. orts only: are M Guy	I (LL12) 5270H rials described above on thi rSDM		Export from L	J.S. Por	t of entry/exit:	roper disposal of	Hazardous W	Month	/ 8 / Day / 8
I. Raven Profile 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T 15. International Shipments Transporter Signature (for experi- 16. Transporter Signature (for experi- 16. Transporter 1 Printed/Typed National Transporter 2 Printed/Typed National Transporter 2 Printed/Typed National	na Non-Haz Soi H 1 699 ATION: I certify the mate yped Name Putto Import to U.S. orts only: are M Guy	I (LL12) 5270H rials described above on thi rSDM		Export from L	Alter Auch J.S. Pou nature	t of entry/exit:	roper disposal of	Hazardous W	Month Month	/ 8 / Day / 8 /
1. Raven Profile 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T 15. International Shipments Transporter Signature (for experi- 16. Transporter Signature (for experi- 17. Discrepancy	na Non-Haz Soi H 1 699 CATION: I certify the mate yped Name Puttc Import to U.S. orts only: ane M Guy	I (LL12) 5270H rials described above on the rSOM		Export from L	Alter Auchi J.S. Por Dationature nature Residue	t of entry/exit: te leaving U.S.:	roper disposal of		Month Month	/ 8 / Day / 8 /
I. Raven Profile	ATION: I certify the mate SATION: I certify the mate yped Name Putto Import to U.S. orts only): ont of Receipt of Materials ame Ame Curtante ace	I (LL12) 5270H rials described above on the rSOM	E	Export from L	pature J.S. Por Dationature	t of entry/exit: te leaving U.S.:		ejection	Month Month	Day / 8 / / 8 / Day
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1. Raven Prof. A	ATION: I certify the mate pred Name Patta Import to U.S. orts only: and of Receipt of Materials ame Ame ace Quantity rator) Iffy (or Generator) Construction of the fill of th	I (LL 12) 5 2704 rials described above on thi rSDM	Type	Sig	pature J.S. Por Dal nature nature Residue Manifest Refer	t of entry/exit: te leaving U.S.: ence Number:	Partial R	ejection	Month	Day Day Day Full Rejection

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH521002073		e 1 of 3. Emergency Respor 330-358-73		4. Waste	Tracking Numb	031736
5. Generator's Name and Mail Generator's Phone: 330	Ravenna 8451 Stat	Army Ammunition Pl te Route 5 , Ohio 44266	Generator's Site Addre	ess (if different	than mailing add	ress)	
6. Transporter 1 Company Na	Berner Tru	claing #419	330-343-5	812	U.S. EPA IE		
7. Transporter 2 Company Na		••• •			U.S. EPA ID		
8. Designated Facility Name a Facility's Phone: 330-	America 7916 Ch	il Landfill napel Street burg, Ohio 44688			U.S. EPA IE) Number	
9. Waste Shipping Nam		n an brak na dipaka dipaka dina kara di pangan dipaka dipaka dipaka dipaka dipaka dipaka dipaka dipaka dipaka d	10. Co No.	ntainers Type	11. Total Quantity	12. Unit Wt./Vol.	
1. Non RCRJ	A. Non Regulated Solid V	Naste	601	TG	22	I	
2.							
3.							
4.							
14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/J		ed above on this manifest are not s	subject to federal regulations to Signature	1.1	oper disposal of H	Hazardous Wast	e. Month Day Yee 6 18 10
 15. International Shipments Transporter Signature (for exp 16. Transporter Acknowledgme 		Export		entry/exit: aving U.S.:			
Transporter 1 Printed Typed N Transporter 2 Printed Typed N	ice Tarson	V	Signature Signature	ie 1	ansp		Month Day Yea Month Day Yea
17. Discrepancy 17a. Discrepancy Indication Sp	Quantity	Птуре	Residue		Partial Re	ejection	Full Rejection
17b. Alternate Facility (or Gene Facility's Phone:	srator)		Manifest Reference	e Number:	U.S. EPA ID	Number	
17c. Signature of Alternate Fac	ility (or Generator)		L				Month Day Yea
10. Designated Facility O							
18. Designated Facility Owner		and a state of a second state of the state o			7		
Printed/Typed Name	or Operator Certification of receipt of r	materials covered by the manifest of	except as noted in Item 17a Signature	γ	\mathcal{T}		Month Day Yea

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH52100207	736	2. Page 1 of	3. Emergency Responses 330-358-731		4. Waste	Tracking Nu	^{mber} 031	.131
5. Generator's Name and Mail Generator's Phone: 330	Ravenr 8451 St	ta Army Ammun tate Route 5 ta, Ohio 44266	ution Plant	Generator's Site Addre	ss (if different	than mailing add	ress)		
6. Transporter 1 Company Nar	USBULK	8006	42-89	10 #169			9873	347575	5
7. Transporter 2 Company Nar	me					U.S. EPA ID) Number		
8. Designated Facility Name and Facility's Phone: 330-6	Amene 7916 C	cal Landfill Thapel Street ssburg, Ohio 446	88			U.S. EPA ID) Number		
9. Waste Shipping Nam	e and Description			10. Con	tainers	11. Total	12. Unit		<u></u>
				No.	Туре	Quantity	Wt./Vol.		
	. Non Regulated Solid	Waste		001	DT	22	T		
2.									
3.									
4.	1		2 (San 1993)						
	ns and Additional Information The Non-Haz Soil (LL)								
1. Raven Profi 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T	CATION: I certify the materials desc	H ribed above on this manife		t to federal regulations for nature	pr reporting pr	oper disposal of h	Hazardous W	/aste. Month	Day Ye
1. Raven Profi 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T WQJ	CATION: I certify the materials desc	H ribed above on this manife			or reporting pr	oper disposal of H	Hazardous W		Day Ye 18 10
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| NON-HAZARDOUS<br>WASTE MANIFEST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1. Generator ID Number<br>OH52100207                                                                                                                                                                                                                                                        | 736                                             | 2. Page 1 of<br>1            | 3. Emergency Respons<br>330-358-731                               |                  | 4. Waste 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Tracking Nu          | <sup>mber</sup> 03 | 173              | 8                    |
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| 5. Generator's Name and Mail<br>Generator's Phone: 330                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Raven:<br>8451 St                                                                                                                                                                                                                                                                           | na Army Ammur<br>hate Route 5<br>na. Ohio 44266 | ution Plant                  | Generator's Site Addres                                           | ss (if different | than mailing add                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | iress)               |                    |                  |                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                             | 78 8000                                         | 42-8                         | 110                                                               |                  | U.S. EPA ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      | 3475               | 75               |                      |
| 7. Transporter 2 Company Nar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | me                                                                                                                                                                                                                                                                                          |                                                 |                              |                                                                   |                  | U.S. EPA ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |                    |                  |                      |
| 8. Designated Facility Name a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                             | ai Landfill                                     |                              |                                                                   |                  | U.S. EPA ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ) Number             | ····               |                  |                      |
| Facility's Phone: 330-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7916 C                                                                                                                                                                                                                                                                                      | hapel Street<br>sburg, Ohio 446                 | 88                           |                                                                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                    |                  |                      |
| 9. Waste Shipping Nam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                             |                                                 |                              | 10. Cont<br>No.                                                   | tainers<br>Type  | 11. Total<br>Quantity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12. Unit<br>Wt./Vol. |                    |                  |                      |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                             | 1                                               |                              | 001                                                               | DT               | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | T                    |                    |                  |                      |
| Non RCRA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A, Non Regulated Solid                                                                                                                                                                                                                                                                      | Waste                                           | Constant<br>All and a second |                                                                   | L                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                    |                  |                      |
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| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                             |                                                 | •<br>•<br>• • • •            |                                                                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                    |                  |                      |
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| 4.<br>13. Special Handling Instruction<br>1. Raven<br>Profil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ons and Additional Information<br>Ina Non-Haz Soil (LLI<br>と半1095270                                                                                                                                                                                                                        | 2)<br>¥ <b>H</b>                                |                              |                                                                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                    |                  |                      |
| 13. Special Handling Instruction<br>1. Raven<br>Pro Fri<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T<br>WLWV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | na Non-Haz Soil (LL I<br>と母しの9527C                                                                                                                                                                                                                                                          | Tibed above on this manife                      |                              | to federal regulations for<br>hature                              | r reporting pr   | oper disposal of H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Hazardous W          | /aste.<br>Mon      | INÓ              | Year                 |
| 13. Special Handling Instruction<br>1. Raven<br>Prof()<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | The Non-Haz Soil (LLI<br>CATION: I certify the materials desc<br>yped Name<br>L Pattersz                                                                                                                                                                                                    | Tibed above on this manife                      |                              | .S. Port of e                                                     | r reporting pr   | oper disposal of t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Hazardous W          | Mon                |                  | Year<br>JQ           |
| 13. Special Handling Instruction<br>1. Raven<br>Dro fri<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T<br>Willing<br>15. International Shipments<br>Transporter Signature (for expr<br>16. Transporter 1 Printed/Typed No<br>VICTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The Non-Haz Soil (LLI<br>CATION: I certify the materials desc Viped Name $L$ Pathersz<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame<br>L IRACY                                                                                                                     | Tibed above on this manife                      | Sign                         | .S. Port of e                                                     | ntry/exit:       | oper disposal of P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Hazardous W          | Mon                | 18<br>h Day      | E di se              |
| 13. Special Handling Instruction     1. Raven     Deo Fil     14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T     15. International Shipments     Transporter Signature (for export     16. Transporter 1 Printed/Typed No     Transporter 2 Printed/Typed No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ATION: I certify the materials desc<br>CATION: I certify the materials desc<br>yped Name<br>L Pattersz<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame<br>ATION: I certify the materials desc<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame | H<br>nibed above on this manife                 | Sign                         | Alure<br>S. Port of e<br>Date lear<br>ature<br>ature              | ntry/exit:       | the second secon | -                    | Mon<br>Mon         | th Day<br>th Day | Year<br>Year         |
| 13. Special Handling Instruction     1. Raven     Def fil     14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T     15. International Shipments     Transporter Signature (for export     16. Transporter 1 Printed/Typed No     Transporter 2 Printed/Typed No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CATION: I certify the materials desc<br>yped Name<br>L Pattersz<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame<br>IMACY                                                                                                                                             | Tibed above on this manife                      | Sign                         | Alure<br>S. Port of e<br>Date lear<br>Hature<br>Lature<br>Residue |                  | oper disposal of H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                    | Mon<br>Mon         | 18<br>h Day      | Year<br>Year         |
| <ol> <li>Special Handling Instruction</li> <li>Raven</li> <li>Pro Fri</li> <li>Generator's/Offeror's Printed/T</li> <li>Muture</li> <li>International Shipments</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ATION: I certify the materials desc<br>CATION: I certify the materials desc<br>yped Name<br>L Pattersz<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame<br>Ame<br>JAACY<br>ame<br>Quantity                                                                            | H<br>nibed above on this manife                 | Sign                         | Alure<br>S. Port of e<br>Date lear<br>ature<br>ature              |                  | the second secon | ejection             | Mon<br>Mon         | th Day<br>th Day | Year<br>Year         |
| <ol> <li>Special Handling Instruction</li> <li>Raven<br/>Dro fri</li> <li>Raven<br/>Dro fri</li> <li>Raven<br/>Dro fri</li> <li>I. Raven<br/>Dro fri</li> <li>International Shipments</li> <li>Transporter Signature (for exprinted/Typed National Shipments</li> <li>Transporter 1 Printed/Typed National Shipment</li> <li>Transporter 2 Printed/Typed National Shipment</li> <li>Transporter 2 Printed/Typed National Shipment</li> <li>Discrepancy Indication Sp</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CATION: I certify the materials desc<br>yped Name<br>L Pattersz<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>arme<br>Jace<br>Quantity<br>erator)                                                                                                                      | H<br>nibed above on this manife                 | Sign                         | Alure<br>S. Port of e<br>Date lear<br>Hature<br>Lature<br>Residue |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ejection             | Mon<br>Mon         | th Day           | Year<br>Year<br>Year |
| 13. Special Handling Instruction     1. Raven     Dec Fil     14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T     15. International Shipments     Transporter Signature (for exp     16. Transporter 1 Printed/Typed No     Transporter 2 Printed/Typed | CATION: I certify the materials desc<br>yped Name<br>L Pattersz<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>arme<br>Jace<br>Quantity<br>erator)                                                                                                                      | H<br>nibed above on this manife                 | Sign                         | Alure<br>S. Port of e<br>Date lear<br>Hature<br>Lature<br>Residue |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ejection             | Mon                | th Day           | Year<br>Year<br>Year |
| 13. Special Handling Instruction     1. Raven     Def fil     14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T     15. International Shipments     Transporter Signature (for expected     17. Discrepancy     17. Discrepancy     17. Discrepancy Indication Sp     17b. Alternate Facility (or Gene     Facility's Phone:     17c. Signature of Alternate Fac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CATION: I certify the materials desc<br>yped Name<br>L Pattersz<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>arme<br>Jace<br>Quantity<br>erator)                                                                                                                      | Tibed above on this manife       > M            | Sigr                         | Alure                                                             |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ejection             | Mon                | h Day<br>th Day  | Year<br>Year<br>Year |

| WASTE MANIFEST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1. Generator ID Number<br>OH5210020                                                                                                                                                                                                    | 0736                                                 | 2. Fage 1 01 | 3. Emergency Respons<br>330-358-731                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     | 4. Waste                | nacking nu  | U               | 3173     | 9                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------|-------------|-----------------|----------|----------------------------------------------|
| 5. Generator's Name and Mail<br>Generator's Phone: 330                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8451                                                                                                                                                                                                                                   | nna Army Ammun<br>State Route 5<br>nna, Ohio 44266   | ution Plant  | Generator's Site Addre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ss (if different    | than mailing add        | iress)      |                 |          |                                              |
| 6. Transporter 1 Company Na                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | me R&ITRUCKIN                                                                                                                                                                                                                          | iG-800-202-9305                                      | -            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     | U.S. EPA ID             | ) Number    |                 |          |                                              |
| 7. Transporter 2 Company Na                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DAD Truckin                                                                                                                                                                                                                            | 9 #1 330                                             | 6264         | 762                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     | U.S. EPA ID             | Numbor      |                 |          |                                              |
| 7. Transporter 2 Company Na                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | me                                                                                                                                                                                                                                     | 5                                                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                         | Number      |                 |          |                                              |
| 8. Designated Facility Name a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                        | · 1 7 10°33                                          |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     | U.S. EPA ID             | ) Number    |                 |          |                                              |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7916                                                                                                                                                                                                                                   | rical Landfill<br>Chapel Street<br>nesburg, Ohio 446 | 88           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     | I                       |             |                 |          |                                              |
| Facility's Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                        |                                                      | <u> </u>     | 10. Con                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | 11. Total               | 12. Unit    |                 |          |                                              |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ·                                                                                                                                                                                                                                      |                                                      |              | No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Туре                | Quantity ZZ             | Wt./Vol.    |                 |          |                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A. Non Regulated Sol                                                                                                                                                                                                                   | id Waste                                             |              | 001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DT                  | 44                      | Ť           |                 |          |                                              |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                        |                                                      | N. ANT       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                         |             |                 |          |                                              |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                        |                                                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                         |             |                 |          |                                              |
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| Contraction of the second s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                        |                                                      |              | and the second se | A CONTRACTOR        | 1                       |             | New Yorks       |          |                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ons and Additional Information                                                                                                                                                                                                         | ,12)                                                 |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     | I                       |             |                 |          |                                              |
| L. Raven<br>Dofile<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CATION: I certify the materials de                                                                                                                                                                                                     | escribed above on this manife                        |              | t to federal regulations for nature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | or reporting pr     | l<br>oper disposal of I | Hazardous W | Mo              | onth Day | Year                                         |
| L. Raven<br>Dofile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CATION: I certify the materials de                                                                                                                                                                                                     | escribed above on this manife                        |              | Mark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | pr reporting pr     | l<br>oper disposal of F | Hazardous W | Mo              | onth Day | Year                                         |
| L. Raven<br>Do File<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T<br>Generator's/Offeror's Printed/T<br>MAU<br>15. International Shipments<br>Transporter Signature (for expe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CATION: I certify the materials de<br>vyped Namp<br>L Patters<br>Import to U.S.<br>orts only):                                                                                                                                         | escribed above on this manife                        | Sig          | J.S. Port of e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Patt                | oper disposal of H      | Hazardous V | Mo              | 1 11     | Year                                         |
| L. Raven<br>Do File<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T<br>Generator's/Offeror's Printed/T<br>15. International Shipments<br>Transporter Signature (for exp<br>16. Transporter Acknowledgme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CATION: I certify the materials de<br>yped Namp<br>L Patters<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials                                                                                                           | escribed above on this manife                        | Sig          | J.S. Port of e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Patt<br>entry/exit: | oper disposal of H      | Hazardous W | м<br>  <b>(</b> | 1 11     | <i>[</i> Ø                                   |
| L. Raven<br>Do File<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T<br>15. International Shipments<br>Transporter Signature (for exp<br>16. Transporter Acknowledgme<br>Transporter 1 Printed/Typed N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CATION: I certify the materials de<br>yped Name<br>L Patters<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame                                                                                                    | escribed above on this manife                        | Sig          | nature<br>J.S. Port of e<br>Date lea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Patt<br>entry/exit: | oper disposal of F      | Hazardous W | Ma              | onth Day | Year<br>(1)                                  |
| L. Raven<br>Do File<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T<br>15. International Shipments<br>Transporter Signature (for exp<br>16. Transporter Acknowledgme<br>Transporter 1 Printed/Typed N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CATION: I certify the materials de<br>yped Name<br>L Patters<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame                                                                                                    | escribed above on this manife                        | Sig          | J.S. Port of e<br>Date lea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Patt<br>entry/exit: | oper disposal of h      | Hazardous W | Ma              | onth Day | <i>  (                                  </i> |
| L. Raven<br>Do File<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T<br>15. International Shipments<br>Transporter Signature (for exp<br>16. Transporter Acknowledgme<br>Transporter 1 Printed/Typed N<br>Transporter 2 Printed/Typed N<br>17. Discrepancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CATION: I certify the materials de<br>yped Namp<br>Left de transformer<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame                                                                                          | escribed above on this manife                        | Sig          | nature<br>J.S. Port of e<br>Date lea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Patt<br>entry/exit: | oper disposal of H      | Hazardous W | Ma              | onth Day | <i>  (                                  </i> |
| L. Raven<br>Do File<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T<br>Generator's/Offeror's Printed/T<br>15. International Shipments<br>Transporter Signature (for exp<br>16. Transporter Signature (for exp<br>16. Transporter Acknowledgmu<br>Transporter 1 Printed/Typed N<br>Transporter 2 Printed/Typed N<br>17. Discrepancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CATION: I certify the materials de<br>yped Namp<br>Left de transformer<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame                                                                                          | escribed above on this manife                        | Sig          | nature<br>J.S. Port of e<br>Date lea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Patt<br>entry/exit: | oper disposal of F      |             | Ma              | onth Day | Year                                         |
| L. Raven<br>Do File<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T<br>WAAA<br>15. International Shipments<br>Transporter Signature (for exp<br>16. Transporter Signature (for exp<br>16. Transporter Acknowledgme<br>Transporter 1 Printed/Typed N<br>Transporter 2 Printed/Typed N<br>17. Discrepancy<br>17a. Discrepancy Indication Sp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CATION: I certify the materials de<br>yed Namp<br>L Patters<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame<br>Dace<br>Quantity                                                                                 | escribed above on this manife                        | Sig          | nature<br>J.S. Port of e<br>Date lea<br>nature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Patte               |                         | sjection    | Ma              | onth Day | Year                                         |
| L. Raven<br>Do File<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T<br>WAAA<br>15. International Shipments<br>Transporter Signature (for exp<br>16. Transporter Signature (for exp<br>16. Transporter Acknowledgme<br>Transporter 1 Printed/Typed N<br>Transporter 2 Printed/Typed N<br>Transporter 2 Printed/Typed N<br>17. Discrepancy<br>17a. Discrepancy Indication Sp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CATION: I certify the materials de<br>yed Namp<br>L Patters<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame<br>Dace<br>Quantity                                                                                 | escribed above on this manife                        | Sig          | nature<br>J.S. Port of e<br>Date lea<br>nature<br>nature<br>Residue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Patte               | tit                     | sjection    | Ma              | onth Day | Yeau<br>Yeau<br>Year                         |
| L. Raven<br>Do File     Additional Shipments     Transporter Signature (for expined/T<br>Transporter 1 Printed/Typed N     Transporter 2 Printed/Typed N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CATION: I certify the materials de<br>yed Namp<br>L Patters<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame<br>Dace<br>Quantity                                                                                 | escribed above on this manife                        | Sig          | nature<br>J.S. Port of e<br>Date lea<br>nature<br>nature<br>Residue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Patte               |                         | sjection    | Ma              | onth Day | Yeau<br>Yeau<br>Year                         |
| L. Raven<br>Do File<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T<br>Generator's/Offeror's Printed/T<br>15. International Shipments<br>Transporter Signature (for exp<br>16. Transporter Signature (for exp<br>16. Transporter Acknowledgmu<br>Transporter 1 Printed/Typed N<br>Transporter 2 Printed/Typed N<br>17. Discrepancy<br>17a. Discrepancy<br>17b. Alternate Facility (or Gene<br>Facility's Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CATION: I certify the materials de<br>yped Namp<br>L Patters<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame<br>Dace Quantity<br>partor)                                                                        | escribed above on this manife                        | Sig          | nature<br>J.S. Port of e<br>Date lea<br>nature<br>nature<br>Residue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Patte               |                         | sjection    |                 | onth Day | Year                                         |
| L. Raven<br>Do File<br>14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T<br>Generator's/Offeror's Printed/T<br>15. International Shipments<br>Transporter Signature (for exp<br>16. Transporter Signature (for exp<br>16. Transporter Acknowledgme<br>Transporter 1 Printed/Typed N<br>Transporter 2 Printed/Typed N<br>17. Discrepancy<br>17a. Discrepancy<br>17b. Alternate Facility (or Gene<br>Facility's Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CATION: I certify the materials de<br>yped Namp<br>L Patters<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame<br>Dace Quantity<br>partor)                                                                        | escribed above on this manife                        | Sig          | nature<br>J.S. Port of e<br>Date lea<br>nature<br>nature<br>Residue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Patte               |                         | sjection    |                 | onth Day | Year<br>Year                                 |
| L. Raven<br>Do File     Control     Contreline     Contreline     Control     Control     Control     Contr | CATION: I certify the materials de<br>yped Namp<br>L Patters<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame<br>Dace Quantity<br>partor)                                                                        | escribed above on this manife                        | Sig          | nature<br>J.S. Port of e<br>Date lea<br>nature<br>nature<br>Residue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Patte               |                         | sjection    |                 | onth Day | Year<br>Year                                 |
| L. Raven<br>Do File     Control     Contrelisted     Control     Control     Control     Control     Contro | CATION: I certify the materials de<br>yped Namp<br>L Patters<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame<br>Dace Quantity<br>partor)                                                                        | SA<br>Type                                           | Sig          | nature<br>J.S. Port of e<br>Date lea<br>nature<br>nature<br>Residue<br>Manifest Reference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Patte               |                         | sjection    |                 | onth Day | ction<br>Year                                |
| L. Raven<br>Do File     Construction     Constructin     Constructin     Construction     Construction     Constructio | ame Non-Haz Soil (LI<br>E # 10 9 52 7 0 H<br>CATION: I certify the materials de<br>yped Namp<br>L Patters<br>Import to U.S.<br>orts only):<br>ent of Receipt of Materials<br>ame<br>Dace Quantity<br>erator)<br>Sillity (or Generator) | SA<br>Type                                           | Sig          | nature<br>J.S. Port of e<br>Date lea<br>nature<br>nature<br>Residue<br>Manifest Reference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Patte               |                         | sjection    |                 | onth Day | Year                                         |

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|                                                                                                                                                                                                                                                                                                 | 1. Generator ID Number<br>OH 5210020736                                                                      | 2. Page 1 of 3<br>1    | 3. Emergency Respons<br>330-358-731 |                     | 4. Waste T                | racking Num          | <sup>ber</sup> 031740                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------|---------------------|---------------------------|----------------------|---------------------------------------------------|
| 5. Generator's Name and Maili<br>Generator's Phone: 330                                                                                                                                                                                                                                         | Ravenna Arm<br>8451 State Ro                                                                                 | y Ammunition Plant     | enerator's Site Addres              | ss (if different th | an mailing add            | ress)                |                                                   |
| 6. Transporter 1 Company Nan                                                                                                                                                                                                                                                                    | Berner Tr                                                                                                    | 262-9305<br>UCKing 330 | 343 5                               | 581Z                | U.S. EPA ID               |                      |                                                   |
| 7. Transporter 2 Company Nan                                                                                                                                                                                                                                                                    | ne                                                                                                           | <u> </u>               |                                     |                     | U.S. EPA ID               | Number               |                                                   |
| 8. Designated Facility Name ar<br>Facility's Phone: 330-8                                                                                                                                                                                                                                       | nd Site Address<br>Americal Lan<br>7916 Chapel (<br>Waynesburg,                                              | Street                 | )                                   |                     | U.S. EPA ID               | Number               |                                                   |
| 9. Waste Shipping Name                                                                                                                                                                                                                                                                          | e and Description                                                                                            |                        | 10. Cont<br>No.                     | tainers<br>Type     | 11. Total<br>Quantity     | 12. Unit<br>Wt./Vol. |                                                   |
| t.<br>Non RCRA                                                                                                                                                                                                                                                                                  | A. Non Regulated Solid Waste                                                                                 |                        | 901                                 | DT                  | 22                        | ľ                    |                                                   |
| 2.                                                                                                                                                                                                                                                                                              |                                                                                                              |                        |                                     |                     |                           |                      |                                                   |
| 3.                                                                                                                                                                                                                                                                                              |                                                                                                              |                        |                                     |                     |                           |                      |                                                   |
| 4.                                                                                                                                                                                                                                                                                              |                                                                                                              |                        |                                     |                     |                           |                      |                                                   |
| 14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/Ty                                                                                                                                                                                                                                    | The HID95270<br>File HID95270<br>CATION: I certify the materials described above<br>yped Name<br>L Patterson |                        |                                     | r reporting prop    | er disposal of F          | lazardous Wa         | ste.<br>Mogth Day Year                            |
|                                                                                                                                                                                                                                                                                                 | Import to U.S.                                                                                               | Export from U.S        |                                     | ntrv/exit:          |                           |                      |                                                   |
| 15. International Shipments                                                                                                                                                                                                                                                                     | ate only                                                                                                     | Export nom 0.c         |                                     | -                   | ••••••                    | • 200 min 1 m        | ······································            |
| Transporter Signature (for expo<br>16. Transporter Acknowledgme<br>Transporter 1 Printed/Typed Na                                                                                                                                                                                               | ame GJNN                                                                                                     | Signa                  | Date lear                           | ving U.S.:          |                           |                      | Month Day Yea                                     |
| Transporter Signature (for expo<br>16. Transporter Acknowledgme<br>Transporter 1 Printed/Typed Na<br>Transporter 2 Printed/Typed Na<br>17. Discrepancy                                                                                                                                          | ame Gunn                                                                                                     | Signa;                 | Date lear                           | ving U.S.:          | Partial Re                | jection              | Month Day Yea                                     |
| Transporter Signature (for expo<br>16. Transporter Acknowledgme<br>Transporter 1 Printed/Typed Na<br>Transporter 2 Printed/Typed Na<br>17. Discrepancy<br>17a. Discrepancy Indication Sp.<br>17b. Atternate Facility (or Gene                                                                   | ame Gunn                                                                                                     | Signa                  | Date lear                           | ving U.S.:          | Partial Re<br>U.S. EPA ID |                      | Month Day Yea<br><u>6</u> 78 70<br>Month Day Year |
| Transporter Signature (for expo<br>16. Transporter Acknowledgme<br>Transporter 1 Printed/Typed Na                                                                                                                                                                                               | ant of Receipt of Materials<br>ame<br>ame<br>Dace<br>Quantity<br>erator)                                     | Signa                  | Date lear                           | ving U.S.:          |                           |                      | Month Day Yea                                     |
| Transporter Signature (for expo<br>16. Transporter Acknowledgme<br>Transporter 1 Printed/Typed Ne<br>Doc 1<br>Transporter 2 Printed/Typed Ne<br>17. Discrepancy<br>17a. Discrepancy Indication Sp.<br>17b. Atternate Facility (or Gene<br>Facility's Phone:<br>17c. Signature of Atternate Faci | ant of Receipt of Materials<br>ame<br>ame<br>Dace<br>Quantity<br>erator)                                     | Signa<br>Signa<br>Type | Date lear                           | ving U.S.:          |                           |                      | Month Day Year                                    |

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| 5. Generator's Name and Mail                                                                                                                                                                                             | OH5210020736                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  | 3. Emergency Respon<br>330-358-731                       |                                         | 4. Waste 1            | Fracking Numb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <sup>**</sup> 031741 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Generator's Phone: 330                                                                                                                                                                                                   | Ravenna 1<br>8451 State                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Arruy Ansmunition Plant<br>Route 5<br>Ohio 44200 | Generator's Site Addre                                   | ess (if different                       | than mailing add      | ress)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | يە ئەتىي             |
| 6. Transporter 1 Company Nar                                                                                                                                                                                             | ne RATTRICION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ing 330-343                                      | 5-5812                                                   | - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17 | U.S. EPA ID           | ) Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |
| 7. Transporter 2 Company Nar                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>, , , , , , , , , , , , , , , , , , , </u>    |                                                          |                                         | U.S. EPA ID           | ) Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |
| 8. Designated Facility Name at Facility's Phone: 330-6                                                                                                                                                                   | Americal<br>7916 Cha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  |                                                          |                                         | U.S. EPA ID           | ) Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |
| 9. Waste Shipping Nam                                                                                                                                                                                                    | e and Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  | 10. Cor<br>No.                                           | tainers<br>Type                         | 11. Total<br>Quantity | 12. Unit<br>Wt./Vol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |
| t.<br>Non RCRA                                                                                                                                                                                                           | . Non Regulated Solid W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | aste                                             | 001                                                      | DT                                      | 22                    | The second secon |                      |
| 2.                                                                                                                                                                                                                       | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |                                                          |                                         |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| 3.                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |                                                          |                                         |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| 4.                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |                                                          |                                         |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| 11.01                                                                                                                                                                                                                    | ile世109527                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                                          |                                         |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| 14. GENERATOR'S CERTIFIC<br>Generator's/Offeror's Printed/T                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sig                                              | t to federal regulations for<br>nature                   | or reporting pr                         | oper disposal of H    | Hazardous Wast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Month Day Year       |
| Generator's/Offeror's Printed/T<br>15. International Shipments<br>Transporter Signature (for expo                                                                                                                        | Under the patterson                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sig                                              | J.S. Port of e                                           | or reporting pr                         | oper disposal of F    | lazardous Wasi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |
| Generator's/Offeror's Printed/T<br>15. International Shipments<br>Transporter Signature (for expo<br>16. Transporter Acknowledgme<br>Transporter 1 Printed/Typed Na<br>Transporter 2 Printed/Typed Na                    | yped Name<br>L Putterson<br>Import to U.S.<br>prts only):<br>Int of Receipt of Materials<br>ame<br>Ce Marson                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sig                                              | J.S. Port of e                                           | entry/exit:<br>aving U.S.:              | oper disposal of H    | Hazardous Wash                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Month Day Year       |
| Generator's/Offeror's Printed/T<br>15. International Shipments<br>Transporter Signature (for expo<br>16. Transporter Acknowledgme<br>Transporter 1 PrintedByped Na                                                       | yped Name<br>L Pattersov<br>Import to U.S.<br>orts only):<br>int of Receipt of Materials<br>arme<br>Ce Parsor<br>ime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sig                                              | nature<br>J.S. Port of e<br>Date lea                     | entry/exit:<br>aving U.S.:              | oper disposal of H    | p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Month Day Year       |
| Generator's/Offeror's Printed/T<br>15. International Shipments<br>Transporter Signature (for expo<br>16. Transporter Acknowledgme<br>Transporter 1 Printed/Typed Na<br>Transporter 2 Printed/Typed Na<br>17. Discrepancy | Import to U.S.         Import to U.S.         Intron of Receipt of Materials         arre         Import         Import         Int of Receipt of Materials         arre         Import         Import | Sig                                              | nature<br>D.S. Port of e<br>Date lea<br>nature<br>Mature | entry/exit:<br>aving U.S.:              | Pars                  | jection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Month Day Year       |

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freedomes from more

| 5. Generator's Name and Mailing Address<br>Ravenna, Army Ammunition Pla<br>8451 State Route 5<br>Ravenna, Ohio 44200<br>6. Transporter 1 Company Name<br><u>Rec. 1 TRECKING</u> 809-262-0365<br>USBULK BUO 642-09<br>7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                 | dress (if different f           |                    |             | <sup>imber</sup> 03 |         | T - L    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|--------------------|-------------|---------------------|---------|----------|
| 6. Transporter 1 Company Name <u>PSTREECKPIC ROO-2020365</u><br>USBULK BUD 642-89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                 | X                               | than mailing add   | ress)       |                     |         |          |
| Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10 #                                                                                            | 178                             | U.S. EPA ID        |             | 4757                | 5       |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                 | <u> </u>                        | U.S. EPA ID        |             |                     | <u></u> | <u> </u> |
| Designated Facility Name and Site Address<br>Americal Landfill<br>7916 Chapel Street<br>Waynesburg, Ohio 44688                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                 |                                 | U.S. EPA ID        | ) Number    |                     |         |          |
| acility's Phone: <u>330-800-3205</u> Washesotag, Critica + 1085<br>9. Waste Shipping Name and Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10. C                                                                                           | Containers                      | 11. Total          | 12. Unit    |                     |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No.                                                                                             | Туре                            | Quantity           | Wt./Vol.    |                     |         |          |
| Non RCRA, Non Regulated Solid Waste                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 601                                                                                             | DT                              | 22                 | T           |                     |         |          |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                 |                                 |                    |             |                     | 1.      |          |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                 |                                 |                    |             |                     |         |          |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                 |                                 |                    |             |                     |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                 |                                 |                    |             |                     |         |          |
| Profile#1095270H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                 |                                 |                    |             |                     |         |          |
| 4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s enerator's/Offeror's Printed/Typed Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Signature                                                                                       | nall                            | oper disposal of F | Hazardous W | Mo                  | e , 1   | ~        |
| 4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s<br>enerator's/Offeror's Printed/Typed Name<br>May L Patterson                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Signature<br>Mail                                                                               | Aft                             | oper disposal of F | Hazardous W |                     | e , 1   | 3,       |
| 4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s         ienerator's/Offeror's Printed/Typed Name         Muttice       Patterscore         5. International Shipments       Import to U.S.         ransporter Signature (for exports only):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Signature                                                                                       | nall                            | iper disposal of F | Hazardous W | Mo                  | e , 1   | 3,       |
| 4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s         enerator's/Offeror's Printed/Typed Name         Musc       Patters         5. International Shipments       Import to U.S.         ransporter Signature (for exports only):       Export of Materials         6. Transporter Acknowledgment of Receipt of Materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Signature                                                                                       | of entry/exit:                  | oper disposal of H | Hazardous W | Mo                  | 5   /8  | 3,       |
| 4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s         enerator's/Offeror's Printed/Typed Name         Murk       Patters         5. International Shipments       Import to U.S.         cansporter Signature (for exports only):         6. Transporter Acknowledgment of Receipt of Materials         Insporter 1 Printed/Typed Name         Import Patters         Import to U.S.         Export f         Construction of the second statements         Import of Materials         Import of The second statements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Signature<br>Mail<br>rom U.S. Port o<br>Date                                                    | of entry/exit:                  | oper disposal of t | Hazardous W | Мо<br>  <b>4</b>    | ith Day | 3/       |
| A. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s enerator's/Offeror's Printed/Typed Name  A. Herrational Shipments Import to U.S. International Shipments Import to U.S. Insporter Signature (for exports only):  3. Transporter Acknowledgment of Receipt of Materials Insporter 1 Printed/Typed Name Import 2 Printed/Typed Name Import 2 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Signature<br>rom U.S. Port (<br>Date<br>Signature                                               | of entry/exit:                  | oper disposal of h | Hazardous W | Mo<br>Mo<br>Mo      | ith Day | 3/       |
| 4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s         ienerator's/Offeror's Printed/Typed Name         Muul       Pattenson         5. International Shipments       Import to U.S.         ransporter Signature (for exports only):         6. Transporter Acknowledgment of Receipt of Materials         ransporter 1 Printed/Typed Name         Transporter 2 Printed/Typed Name         7. Discrepancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Signature<br>rom U.S. Port (<br>Date<br>Signature                                               | of entry/exit:                  | per disposal of H  |             | Mo<br>Mo<br>Mo      | ith Day |          |
| 4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s         ienerator's/Offeror's Printed/Typed Name         Mure       Patters         5. International Shipments       Import to U.S.         ransporter Signature (for exports only):       Export f         6. Transporter Acknowledgment of Receipt of Materials       Import to U.S.         ransporter 1 Printed/Typed Name       Image: Comparison of the                                                                                                                                                                                                                                        | Signature<br>rom U.S. Port (<br>Date<br>Signature<br>Signature                                  | of entry/exit:<br>leaving U.S.: | Partial Re         | ejection    | Mo<br>Mo<br>Mo      | hth Day |          |
| 4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s         ienerator's/Offeror's Printed/Typed Name         Mure       Patters         5. International Shipments       Import to U.S.         ransporter Signature (for exports only):       Export f         6. Transporter Acknowledgment of Receipt of Materials       Import to U.S.         ransporter 1 Printed/Typed Name       Image: Comparison of the                                                                                                                                                                                                                                        | Signature<br>rom U.S. Port o<br>Date<br>Signature<br>Signature                                  | of entry/exit:<br>leaving U.S.: |                    | ejection    | Mo<br>Mo<br>Mo      | hth Day |          |
| 4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s inererator's Offeror's Printed/Typed Name         4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s inererator's Offeror's Printed/Typed Name         5. International Shipments       Import to U.S.         5. International Shipments       Import to U.S.         6. Transporter Signature (for exports only):       Export f         6. Transporter Acknowledgment of Receipt of Materials       Import to U.S.         7. Discrepancy       TALLY         7. Discrepancy       Quantity         7b. Alternate Facility (or Generator)       acility's Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Signature<br>rom U.S. Port o<br>Date<br>Signature<br>Signature                                  | of entry/exit:<br>leaving U.S.: | Partial Re         | ejection    | Мо<br>Мо<br>Мо<br>[ | th Day  |          |
| 4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s         enerator's/Offeror's Printed/Typed Name         Mutual       Pattension         5. International Shipments       Import to U.S.         ransporter Signature (for exports only):       Export f         6. Transporter Acknowledgment of Receipt of Materials       Import to U.S.         7. Discrepancy       TMALY         7. Discrepancy Indication Space       Quantity         7. Discrepancy Indication Space       Quantity         7. Alternate Facility (or Generator)       Alternator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Signature<br>rom U.S. Port o<br>Date<br>Signature<br>Signature                                  | of entry/exit:<br>leaving U.S.: | Partial Re         | ejection    | Mo<br>Mo<br>Mo      | th Day  |          |
| 4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s inererator's Offeror's Printed/Typed Name         4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s inererator's Offeror's Printed/Typed Name         5. International Shipments       Import to U.S.         5. International Shipments       Import to U.S.         6. Transporter Signature (for exports only):       Export f         6. Transporter Acknowledgment of Receipt of Materials       Import to U.S.         7. Discrepancy       TALLY         7. Discrepancy       Quantity         7b. Alternate Facility (or Generator)       acility's Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Signature<br>rom U.S. Port o<br>Date<br>Signature<br>Signature                                  | of entry/exit:<br>leaving U.S.: | Partial Re         | ejection    | Мо<br>Мо<br>Мо<br>[ | th Day  |          |
| A. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s Generator's/Offeror's Printed/Typed Name Description | Signature<br>rom U.S. Port I<br>Date<br>Signature<br>Signature<br>Signature<br>Manifest Referer | of entry/exit:<br>leaving U.S.: | Partial Re         | ejection    | Мо<br>Мо<br>Мо<br>[ | th Day  | 32       |

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| NON-HAZARDOUS<br>WASTE MANIFEST                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1. Generator ID Number<br>OH5210020736                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         | 2. Page For                               | 3. Emergency Response<br>330-358-7312                                                     |                 | 4. waste i        | racking Nu           | <sup>mber</sup> 03  | 1743                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------|-----------------|-------------------|----------------------|---------------------|---------------------------------------------------------------------------------------------------|
| 5. Generator's Name and Mailin                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ravenna /<br>8451 State                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Anny Ammunutic<br>Route 5<br>Ohio 44266 | m Plant                                   | Generator's Site Address                                                                  | (if different t | han mailing addr  | ess)                 |                     |                                                                                                   |
| Generator's Phone: 330-<br>6. Transporter 1 Company Name<br>7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                                                                                         | 358-7312<br>* R <del>&amp;J-TRUCKING 8</del><br>USBULIC #1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 00-202-9305                             | 42-891                                    | 0                                                                                         |                 | U.S. EPA ID       | 3734                 | 7575                |                                                                                                   |
| 8. Designated Facility Name and                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Americal<br>7016 Chaj<br>Warnesh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |                                           |                                                                                           |                 | U.S. EPA ID       | Number               |                     |                                                                                                   |
| Facility's Phone: 330-80<br>9. Waste Shipping Name                                                                                                                                                                                                                                                                                                                                                                                                                                                | AG*3277.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |                                           | 10. Conta                                                                                 |                 | 11. Total         | 12. Unit<br>Wt./Vol. |                     |                                                                                                   |
| 1.<br>Non RCRA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Non Regulated Solid W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | aste                                    |                                           | 001                                                                                       | Type            | Quantity<br>22    | T<br>T               |                     | •                                                                                                 |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |                                           |                                                                                           |                 |                   |                      |                     |                                                                                                   |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |                                           |                                                                                           |                 |                   |                      |                     |                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Contractor and the                      | Al Tables                                 |                                                                                           |                 |                   |                      |                     |                                                                                                   |
| 4.<br>13. Special Handling Instruction<br>I. Ravenn<br>Prsfile                                                                                                                                                                                                                                                                                                                                                                                                                                    | s and Additional Information<br>a Non-Haz Soil (LL12)<br>24 10 952704                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |                                           |                                                                                           |                 |                   |                      |                     |                                                                                                   |
| 13. Special Handling Instruction<br>I Ravenm<br>Prafile<br>14. GENERATOR'S CERTIFICA                                                                                                                                                                                                                                                                                                                                                                                                              | a Non-Haz Soil (LL12)<br>2 # 10 95270H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | above on this manifest an               | re not subject f                          | o federal regulations for                                                                 | reporting pro   | per disposal of H | lazardous W          | /aste.              |                                                                                                   |
| 13. Special Handling Instruction<br>I. Ravenn<br>Profile<br>14. GENERATOR'S CERTIFICA<br>Generator's/Offeror's Printed/Typ                                                                                                                                                                                                                                                                                                                                                                        | a Non-Haz Soil (LL12)<br>2 # 10 95270H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         | re not subject t<br>Signa                 |                                                                                           | reporting pro   | per disposal of H | lazardous W          | /aste.<br>Month     | Day Yea<br>18 10                                                                                  |
| 13. Special Handling Instruction<br>I. Ravenn<br>Pro File<br>14. GENERATOR'S CERTIFICA<br>Generator's/Offeror's Printed/Typ<br>15. International Shipments<br>Transporter Signature (for export                                                                                                                                                                                                                                                                                                   | a Non-Haz Soil (LL12)<br># 10 95270H<br>TION: I certify the materials described<br>ved Name<br>We Patterso<br>Import to U.S.<br>is only):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | n                                       |                                           | ature Mach Y                                                                              | ry/exit:        | per disposal of H | lazardous W          | Month               | 10                                                                                                |
| 13. Special Handling Instruction<br>Ravem<br>Pro Ale<br>14. GENERATOR'S CERTIFICA<br>Generator's/Offeror's Printed/Type<br>Transporter Signature (for export<br>16. Transporter Acknowledgmen<br>Transporter 1 Printed/Typed Nar                                                                                                                                                                                                                                                                  | a Non-Haz Soil (LL12)<br>+ 1095270H<br>TION: I certify the materials described<br>hed Name<br>+ 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2 | n                                       | Signa<br>Export from U.<br>Signa          | ture<br>S. Port of ent<br>Date leavi<br>ture                                              | ry/exit:        | per disposal of H | lazardous W          | Montt<br>Montt      | 18  10<br>Day Ye                                                                                  |
| 13. Special Handling Instruction<br>Profile<br>14. GENERATOR'S CERTIFICA<br>Generator's/Offeror's Printed/Type<br>15. International Shipments<br>Transporter Signature (for export<br>16. Transporter Acknowledgmen<br>Transporter 1 Printed/Typed Nar<br>Transporter 2 Printed/Typed Nar                                                                                                                                                                                                         | a Non-Haz Soil (LL12)<br>+ 1095270H<br>TION: I certify the materials described<br>hed Name<br>+ 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2 | n                                       | Signa<br>Export from U.s                  | ture<br>S. Port of ent<br>Date leavi<br>ture                                              | ry/exit:        | per disposal of H | lazardous W          | Month<br>6<br>Month | 18  10<br>Day Ye                                                                                  |
| 13. Special Handling Instruction<br>Profile<br>14. GENERATOR'S CERTIFICA<br>Generator's/Offeror's Printed/Type<br>15. International Shipments<br>Transporter Signature (for export<br>16. Transporter Signature (for export<br>16. Transporter 1 Printed/Typed Nar<br>Transporter 2 Printed/Typed Nar<br>Transporter 2 Printed/Typed Nar<br>17. Discrepancy                                                                                                                                       | a Non-Haz Soil (LL12)<br>+ 1095270H<br>100: I certify the materials described<br>100: I certify the materials des      | n                                       | Signa<br>Export from U.<br>Signa          | ture<br>S. Port of ent<br>Date leavi<br>ture<br>ture                                      | Ty/exit:        | per disposal of H |                      | Montt               | 18  10<br>Day Ye                                                                                  |
| 13. Special Handling Instruction     I Ravenn     Profile     14. GENERATOR'S CERTIFICA     Generator's/Offeror's Printed/Typ     15. International Shipments     Transporter Signature (for export     16. Transporter Acknowledgmen     Transporter 1 Printed/Typed Nar     Transporter 2 Printed/Typed Nar     T7. Discrepancy     17a. Discrepancy Indication Space     17b. Alternate Facility (or General                                                                                   | a Non-Haz Soil (LL12)<br>+ 1095270H<br>TION: I certify the materials described<br>red Name<br>+ 2 Patterso<br>Import to U.S.<br>s only):<br>t of Receipt of Materials<br>he<br>$- 4 G Capp \varepsilon r$<br>he<br>$- 2 G Q Q Capp \varepsilon r$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | И<br>П                                  | Signa<br>Export from U.<br>Signa          | ture<br>S. Port of ent<br>Date leavi                                                      | Ty/exit:        |                   | jection              | Montt               | 18 10<br>Day Ye<br> 18 10<br>Day Yea                                                              |
| 13. Special Handling Instruction     I Ravenn     Prs.file     14. GENERATOR'S CERTIFICA     Generator's/Offeror's Printed/Typ     15. International Shipments     Transporter Signature (for export     16. Transporter Acknowledgmen     Transporter 1 Printed/Typed Nar     Transporter 2 Printed/Typed Nar     Transporter 2 Printed/Typed Nar     17. Discrepancy     17a. Discrepancy Indication Space     17b. Alternate Facility (or General     Facility's Phone:                        | a Non-Haz Soil (LL12)<br>+ 1095270H<br>TION: I certify the materials described<br>red Name $Pa+Crsso$<br>$\square$ Import to U.S.<br>is only):<br>t of Receipt of Materials<br>ne $4aCapp \ge r$<br>ne<br>2e<br>$\square$ Quantity<br>ttor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | И<br>П                                  | Signa<br>Export from U.<br>Signa          | ture<br>S. Port of ent<br>Date leavi<br>ture<br>ture                                      | Ty/exit:        | Partial Rej       | jection              | Montt               | Ig     Ig       Day     Ye       Ig     Ig       Day     Yee       Ig     Ig       Full Rejection |
| <ol> <li>Special Handling Instruction<br/>Profile</li> <li>Ravern<br/>Profile</li> <li>Generator's/Offeror's Printed/Typ</li> <li>International Shipments</li> <li>Transporter Signature (for export</li> <li>Transporter Signature (for export</li> <li>Transporter 1 Printed/Typed Nar</li> <li>Transporter 2 Printed/Typed Nar</li> <li>Discrepancy</li> <li>Discrepancy Indication Space</li> <li>Alternate Facility (or Generation Space</li> <li>Signature of Alternate Faciliti</li> </ol> | a Non-Haz Soil (LL12)<br>+ 1095270H<br>TION: I certify the materials described<br>red Name $Pa+Crsso$<br>$\square$ Import to U.S.<br>is only):<br>t of Receipt of Materials<br>ne $4aCapp \ge r$<br>ne<br>2e<br>$\square$ Quantity<br>ttor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ικ                                      | Signa<br>Export from U.<br>Signa<br>Signa | ture<br>S. Port of ent<br>Date leaving<br>ture<br>ture<br>Residue<br>Manifest Reference N | Ty/exit:        | Partial Rej       | jection              | Montt               | Ig     Ig       Day     Ye       Ig     Ig       Day     Yee       Ig     Ig       Full Rejection |

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| 1                   | NON-HAZARDOUS<br>WASTE MANIFEST                                 | 1. Generator ID Number<br>OH5210020736           | 2. Page 1 of                         | 3. Emergency Respons<br>330-358-731 |             | 4. Waste T          | Fracking Numbe  | 031744          |
|---------------------|-----------------------------------------------------------------|--------------------------------------------------|--------------------------------------|-------------------------------------|-------------|---------------------|-----------------|-----------------|
|                     | 5. Generator's Name and Mail                                    | ng Address                                       |                                      | Generator's Site Addres             |             | <br>an mailing addr | ress)           |                 |
|                     | Generator's Phone: 330<br>6. Transporter 1 Company Nar          | -358-7312                                        |                                      | 33034                               | 135B17      | U.S. EPA ID         |                 |                 |
|                     | 7. Transporter 2 Company Nar                                    | ne                                               | <u> </u>                             | ~ ~ ~                               |             | U.S. EPA ID         | Number          |                 |
|                     | 8. Designated Facility Name at Facility's Phone: 330-6          | Americal La<br>7916 Chapel                       |                                      |                                     |             | U.S. EPA ID         | Number          |                 |
|                     | 9. Waste Shipping Nam                                           |                                                  |                                      | 10. Cont                            | tainers     | 11. Total           | 12. Unit        |                 |
|                     | 1.                                                              |                                                  |                                      | No.                                 | Туре        | Quantity            | Wt./Vol.        |                 |
| GENERATOR           |                                                                 | , Non Regulated Solid Wast                       | te,                                  | 601                                 | DT          | Ú                   | T               |                 |
| 5                   |                                                                 |                                                  |                                      |                                     |             |                     |                 |                 |
|                     | 3.                                                              |                                                  |                                      |                                     |             |                     |                 |                 |
|                     | 4.                                                              |                                                  |                                      |                                     |             |                     |                 |                 |
|                     |                                                                 | File#1095270                                     | ove on this manifest are not subject | to federal regulations fo<br>nature | nD1         | er disposal of H    | Hazardous Waste | Month Day Year  |
| INTL                | 15. International Shipments                                     | Import to U.S.                                   | Export from U                        | I.S. Port of e                      | entry/exit: |                     |                 |                 |
|                     | Transporter Signature (for expo<br>16. Transporter Acknowledgme |                                                  |                                      | Date lea                            | ving U.S.:  | 0                   |                 |                 |
| TRANSPORTER         | Transporter Printed/Typed Na                                    | Parro                                            |                                      | nature<br>DUV<br>nature             | el t        | ars                 | m               | Month Pay Year  |
|                     | 17. Discrepancy<br>17a. Discrepancy Indication Sp               | ace Quantity                                     | П туре                               | Residue                             |             | Partial Re          | jection         | Full Rejection  |
| - ACILITY -         | 17b. Alternate Facility (or Gene<br>Facility's Phone:           | rator)                                           |                                      | Manifest Reference                  | Number:     | U.S. EPA ID         | Number          |                 |
| DESIGNATED FACILITY | 17c. Signature of Alternate Fac                                 | ility (or Generator)                             |                                      |                                     |             | I                   |                 | Month Day Year  |
| DESI                |                                                                 |                                                  |                                      | (                                   | 20          |                     |                 |                 |
| ¥                   | Printed/Typed Name                                              | or Operator: Certification of receipt of materia |                                      | as noted in Item 1/a<br>nature      | Ň           | $\sim$              |                 | Month Day Year  |
| 69                  | -BLC-I 6 Rev. 8/06                                              | <u> </u>                                         |                                      |                                     | D           | ESIGNATI            | ED FACILI       | TY TO GENERATOR |

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## PRELIMINARY DRAFT REMEDIAL ACTION REPORT FOR THE RVAAP-12 LOAD LINE 12 RAVENNA ARMY AMMUNITION PLANT, RAVENNA OHIO COMMENT RESPONSE TABLE AUGUST 3, 2010

Page 1 of 1

| Comment<br>Number | Page or<br>Sheet                           | New Page<br>or Sheet               | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Recommendation                                                                                                                                                                                                                                                                                                                         | Response                                                                                                                                                                                                                                                                                                                         |  |  |  |  |
|-------------------|--------------------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|                   | USACE - Louisville (Thomas M. Chanda)      |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
| A-1               | Page iii<br>Line 15<br>TOC                 | Page iii<br>Figure 5-1<br>Page 5-5 | The TOC's Figure 5-1 title does coincide with Fig. 5-1's title block on Page 5-5. The reader is not sure the drawing on Page 5-5 is the correct one based on the title specified within the TOC                                                                                                                                                                                                                                                            | Revise either the TOC, Drawing Title Block,<br>and/or Drawing                                                                                                                                                                                                                                                                          | Agree. The title block will be<br>changed to what is stated in the table<br>of contents.                                                                                                                                                                                                                                         |  |  |  |  |
| A-2               | Appendix D<br>Last Page<br>Manifest<br>Log | N/A                                | Last log entry Disposal Date 6/21/2010 - The transporter (Berner Trucking) was loaded/outbound on 6/18/10; a difference of when the material was loaded and when it was off-loaded at the landfill facility. Being that the other 53 loads of soil all were transferred within a day and there's no mention within the notes column; what reason was provided to the delay in disposal? Was the truck stored in a secured area during that 3-days interim? | Please explain.                                                                                                                                                                                                                                                                                                                        | Comment acknowledged. This truck<br>was loaded at the end of the day on<br>Friday and was unable to get to the<br>landfill before landfill closing time.<br>The truck was parked in a secured<br>area that had 24-hour surveillance<br>until disposal at the landfill on the<br>following Monday.<br>No text change recommended. |  |  |  |  |
| A-3               | General                                    | N/A                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                            | When preparing a manifest log in the future it<br>would be more convenient to the reader if the<br>columns were in chronological order; e.g.<br>placing the "date of generation" column before<br>the "Disposal Date" Column. Also, it would<br>be a benefit if there were a column sequentially<br>numbering each load e.g. 1 thru 54 | Comment acknowledged. Please note<br>that this form provided by the<br>RVAAP Operations and Maintenance<br>contractor. The sequence in which the<br>data is reported is based on the<br>Manifest Document No., which is the<br>same as when the truck exited the area<br>of concern.<br>No text change recommended.              |  |  |  |  |

Additional notes: Ohio EPA and OHARNG did not have comments on the Preliminary Draft Remedial Action Report. All stakeholders agree that once the comments are resolved, SAIC can issue a Final Remedial Action Report for review/approval.