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Final
Remediation Completion Report
Sub-Slab Soils at RVAAP-09 Load Line 2,
RVAAP-10 Load Line 3, and RVAAP-11 Load Line 4

Ravenna Army Ammunition Plant
8451 St. Route 5
Ravenna, OH 44266-9297

Contract No. W912QR-04-D-0025
Delivery Order No. 0006

Prepared for:

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**US Army Corps
of Engineers®**

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Acronyms and Abbreviations

ADR	Automated Data Review
AEC	Army Environmental Command
AOC	Area of Concern
bgs	Below ground surface
BMP	Best Management Practices
BRACD	Base Realignment and Closure Division
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CLIN	Contract Line Item
COC	Chemical of Concern
CUG	Cleanup Goal
CY	Cubic Yard
DNT	Dinitrotoluene
E&S	Erosion and Sediment
FWSAP	Facility-Wide Sampling and Analysis Plan
GPS	Global Positioning System
HASP	Health and Safety Plan
IDW	Investigation-Derived Waste
IROD	Interim Record of Decision
IRP	Installation Restoration Program
JSA	Job Safety Analysis
LCG5	Louisville Chemistry Guideline, Version 5
LCS	Laboratory Control Sample
LL	Load Line
MARC	Multiple Award Remediation Contract
MI	Multi-Increment
MRL	Method Reporting Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NGB	National Guard Bureau

NOI	Notice of Intent
NOT	Notice of Termination
OHARNG	Ohio Army National Guard
Ohio EPA	Ohio Environmental Protection Agency
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated Biphenyl
PIKA	PIKA, Inc.
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RI/FS	Remedial Investigation/Feasibility Study
RDX	Hexahydro-1,3,5-trinitro-1,3,5-triazine, also Royal Demolition Explosive
RPD	Relative Percent Difference
RVAAP	Ravenna Army Ammunition Plant
SAIC	Science Applications International Corporation
SOW	Scope of Work
SRC	Site-Related Contaminant
SWP3	Storm Water Pollution Prevention Plan
SVOC	Semivolatile Organic Compound
TAL	Target Analyte List
TCLP	Toxicity Characteristic Leaching Procedure
TNT	Trinitrotoluene also 2,4,6-Trinitrotoluene
URS	URS Group, Inc.
USACE	United States Army Corps of Engineers
USP&FO	United States Property and Fiscal Officer
UXO	Unexploded Ordnance

1.1 PURPOSE AND SCOPE

URS Group, Inc. (URS) was contracted by the United States Army Corps of Engineers (USACE) to sample soils below removed floor slabs at Load Lines 2, 3, and 4 and to excavate and transport contaminated soils to Load Line 4 (Buildings G-1, G-1A, and G-3) at the Ravenna Army Ammunition Plant (RVAAP) under their Multiple Award Remediation Contract (MARC), Delivery Order 0006. Subsequent modifications to the Delivery Order added Load Line 1 Buildings, Buildings F-15 and F-16, and several other buildings at Load Lines 3 and 4 that were demolished subsequent to the execution of the initial Delivery Order. The Delivery Order was also modified to include transport of contaminated soil to a licensed disposal facility rather than the originally designated Load Line 4 Buildings.

The purpose of the sampling was to determine whether any releases of chemicals of concern (COCs) had occurred at levels indicating a concern for human health, based on the Ohio Army National Guard's intended future use of the areas. The intended future use of the areas is for National Guard training activities where the trainee is exposed to surface soil (considered to be 0 to 4 feet below ground surface (bgs), assuming the use of tracked vehicles). Because the exposure is assumed to be the upper 4 feet of soil, the sampling activities concentrated on that soil horizon. The results of the sampling were to be used to determine the need for removal of contaminated soil.

As part of the Scope of Work (SOW) for Task Order 0006, a Work Plan to address all SOW activities was prepared and approved (URS, 2008). The Work Plan was later amended to provide for additional sampling at the additional buildings (Load Line 1 and others) and to provide details on the excavation and removal of contaminated soil (URS, 2009b). The sampling plan for each building footprint included both screening for explosives and confirmation sampling (multi-increment (MI)) sampling for a larger suite of chemicals.

The Work Plan (including Addendum # 1) is a supplement to the 2001 Facility-Wide Sampling and Analysis Plan (FWSAP) for the RVAAP, Ravenna, Ohio (SAIC, 2001b). The FWSAP provides the base documentation (i.e., technical and investigative protocols) for conducting environmental investigations under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) at RVAAP.

This report provides documentation of the excavation and disposal of contaminated soil at Load Lines 2 and 3. It also includes documentation of the removal and disposal of soil piles stored within three buildings at Load Line 4 (i.e., G-1, G-1A and G-3). This material was removed so that these three buildings could be demolished, the slabs removed, and the underlying soil subsequently sampled.

1.2 SITE DESCRIPTION AND PROJECT BACKGROUND

The RVAAP is located in northeastern Ohio within Portage and Trumbull Counties, approximately 1.6 km (1 mile) northwest of the city of Newton Falls and 4.8 km (3 miles) east-

northeast of the city of Ravenna. The facility is a parcel of property approximately 17.7 kilometers (11 miles) long and 5.6 kilometers (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 (Figure 1-1). As of February 2006, a total of 20,403 acres of the former 21,683-acre RVAAP have been transferred to the United States Property and Fiscal Officer (USP&FO) for Ohio and subsequently licensed to the Ohio Army National Guard (OHARNG) for use as a training site. Currently, RVAAP consists of 1,280 acres in several distinct parcels scattered throughout the confines of the Camp Ravenna training site. The RVAAP's remaining parcels of land are located completely within Camp Ravenna.

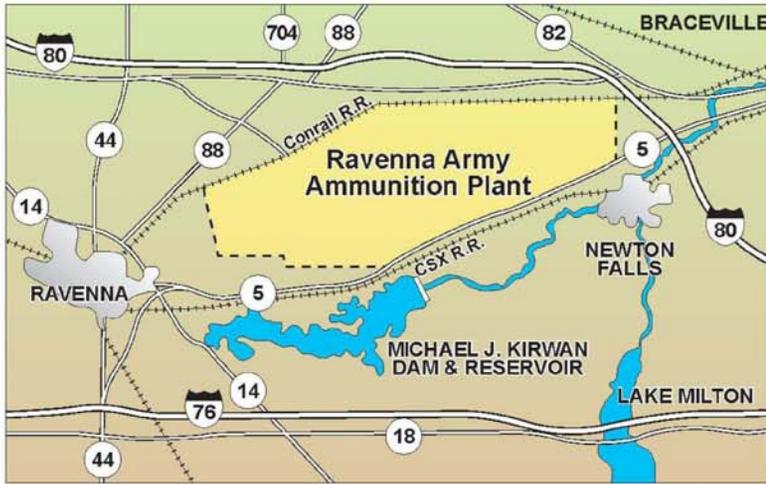
Camp Ravenna did not exist when RVAAP was operational, and the entire 21,683-acre parcel was a government-owned, contractor-operated industrial facility. The RVAAP Installation Restoration Program (IRP) encompasses investigation and cleanup of past activities over the entire 21,683 acres of the former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

Figure 1-2 shows the locations of the various portions of the facility. As the installation is remediated, acreage is transferred from the Base Realignment and Closure Division (BRACD) to the National Guard Bureau (NGB) for OHARNG training. The Ohio Environmental Protection Agency (Ohio EPA) is the lead regulatory agency for remediation being conducted by the Army.

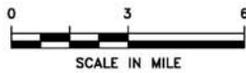
RVAAP was constructed in 1940 and 1941 for depot storage and ammunition assembly and loading. In 1950 the facility was placed on standby status until production activities were resumed in 1954 to 1957 and again in 1968 to 1972. Demilitarization activities continued until 1992. The only activities currently being carried out at RVAAP are environmental restoration, ordnance clearance, and demolition of discovered ordnance during those activities, as well as building decontamination and demolition.

The areas of concern for the work accomplished in this report are Load Lines 2, 3, and 4 (Figures 1-3 through 1-5). Industrial operations at these locations consisted primarily of melting and loading trinitrotoluene (TNT, also 2,4,6-trinitrotoluene) and Composition B (TNT and Royal Demolition Explosive, also hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)) into large caliber shells. From approximately 1941 to 1971 building wash-down water and wastewater from load line operations collected in concrete sumps, were pumped through sawdust filtration units, and then discharged to either a settling pond or to drainage ditches leading to a settling pond.

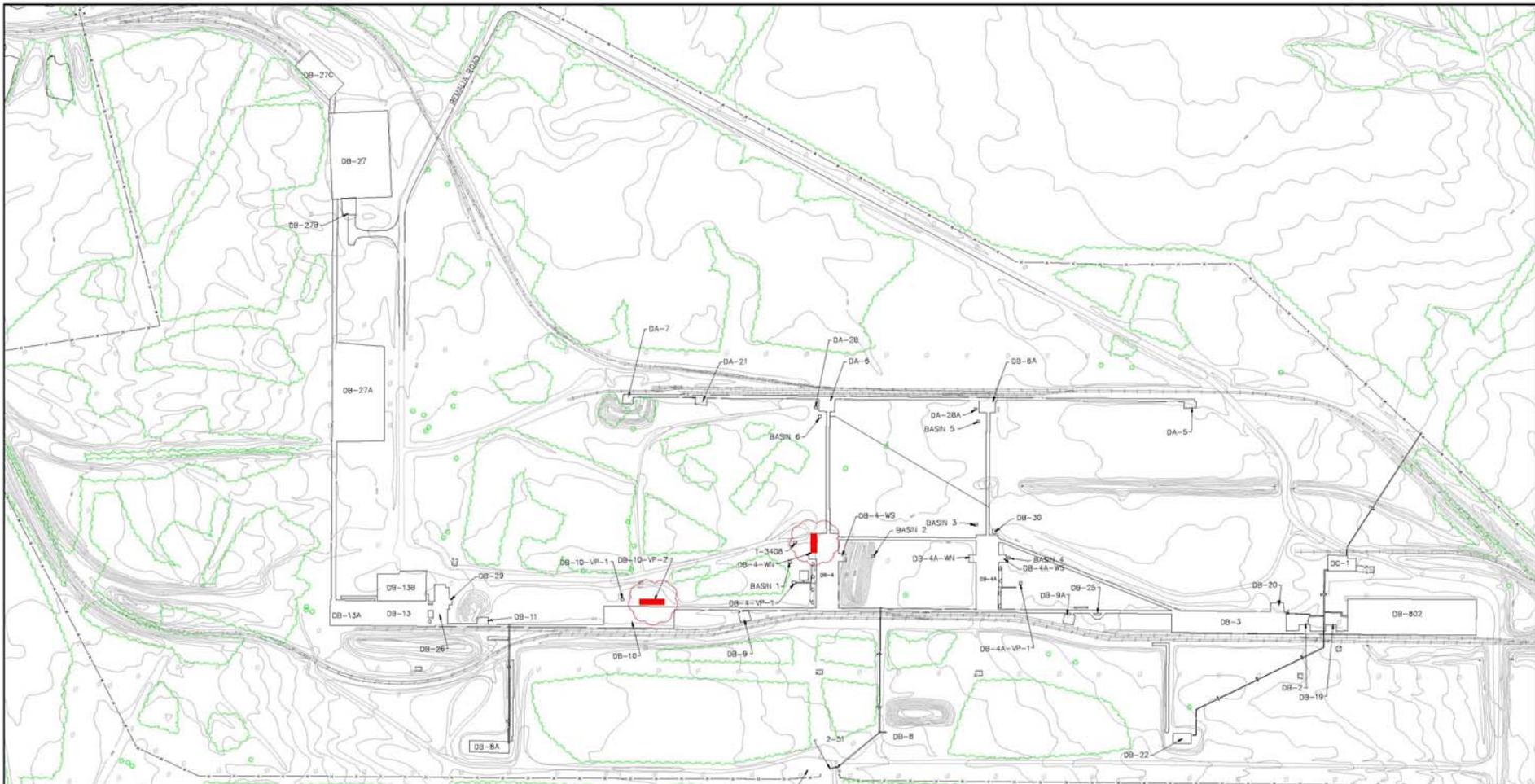
The operations of these load lines produced explosive dust, spills, and vapors that collected on the floors and walls of the process buildings. Periodically, the floors and walls were cleaned with water and steam. The resulting liquid contained both TNT and Composition B and was known as "pink water" because of its characteristic color.



ORIENTATION OF RVAAP

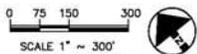


URS					
RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO					
RVAAP LOCATION MAP					
DRAWN BY: JSC	CHECKED BY: BP	PROJECT No: 13812319	DATE: 08/16/10	FIGURE No: 1-1	PAGE No: 1-3

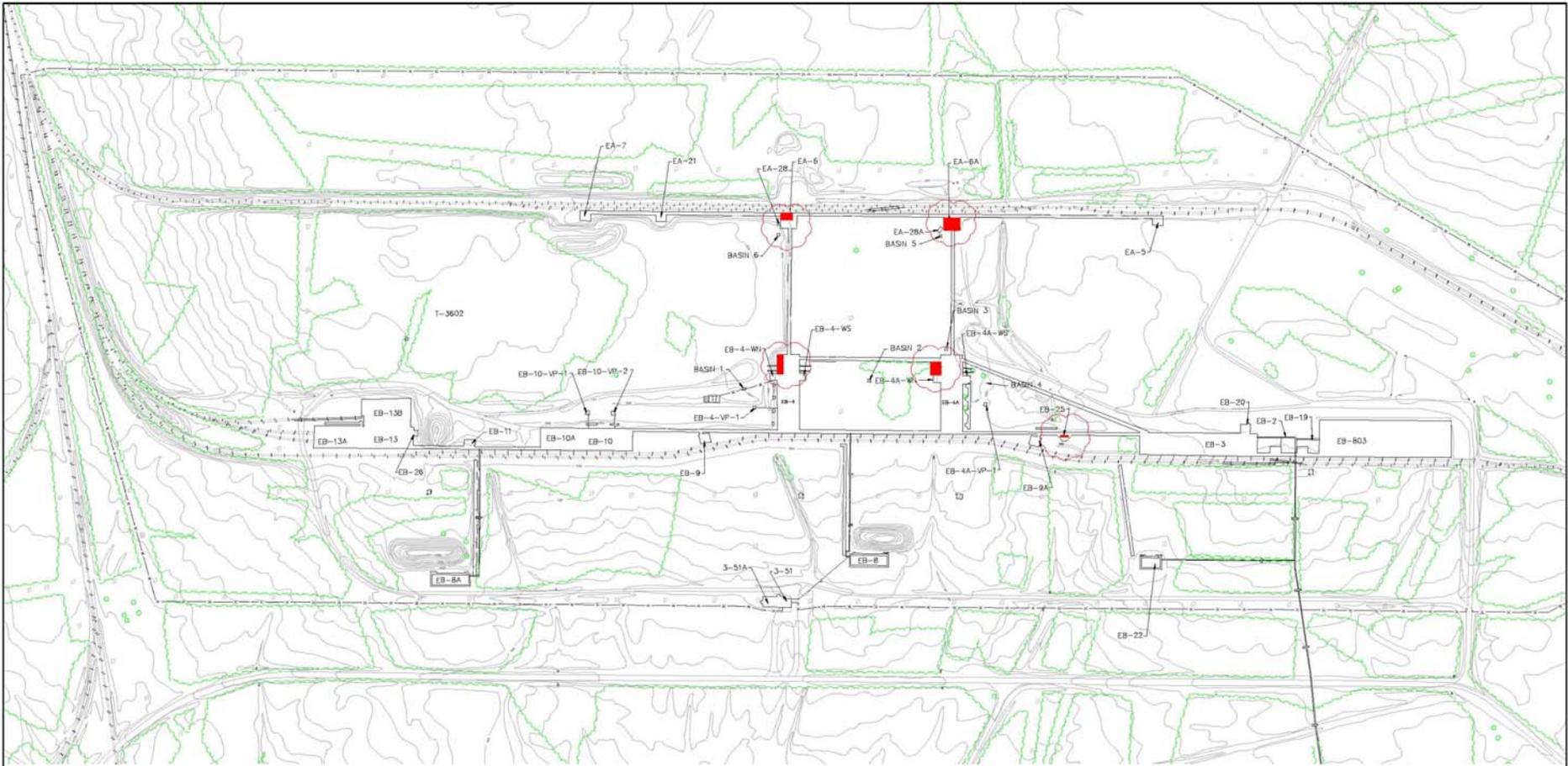


LEGEND

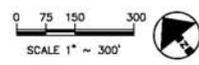
- BUILDING AND WALKWAY
- SECONDARY BUILDING
- ASPHALT ROAD
- GRAVEL ROAD
- RAILROAD TRACKS
- FENCE LINE
- CONTOUR (2 FT. INTERVAL)
- CONTOUR (10 FT. INTERVAL)
- TREE OR TREELINE
- STEAM STANCHION
- BASINS (USE UNKNOWN)
- EXCAVATION AREAS
- SEE FIGURES 4-1 AND 4-2 FOR ADDITIONAL DETAIL



URS					
RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO					
REMEDIATION OF SUB-SLAB SOILS LOAD LINE 2 PLAN VIEW					
DRAWN BY: JSC	CHECKED BY: BP	PROJECT No: 13812319	DATE: 08/16/10	FIGURE No: 1-3	PAGE No: 1-5



- LEGEND**
- BUILDING AND WALKWAY
 - SECONDARY BUILDING
 - ASPHALT ROAD
 - GRAVEL ROAD
 - RAILROAD TRACKS
 - FENCE LINE
 - CONTOUR (2 FT. INTERVAL)
 - CONTOUR (10 FT. INTERVAL)
 - TREE OR TREELINE
 - STEAM STANCHION
 - BASINS (USE UNKNOWN)
 - EXCAVATION AREAS
 - SEE FIGURES 4-3, 4-4 AND 4-5 FOR ADDITIONAL DETAIL



URS					
RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO					
REMEDIATION OF SUB-SLAB SOILS LOAD LINE 3 PLAN VIEW					
DRAWN BY: JSC	CHECKED BY: BP	PROJECT No: 13812319	DATE: 08/16/10	FIGURE No: 1-4	PAGE No: 1-6

A performance-based contract was awarded to Shaw E & I in September 2003 to complete an interim soil and dry sediment removal at Load Lines 1 through 4. The Remedial Investigations/Feasibility Studies (RIs/FSs), as well as remedial actions, are complete; and an Interim Record of Decision (IROD) has been signed. The IROD included a provision to periodically inspect remaining slabs and foundations to ensure their integrity until their removal. In January, 2008, BRACD sent correspondence detailing the agreed-upon approach for slab removal (US Army, 2008). The slab removal and any removal actions of contaminated soil will be documented in the final Record of Decision (US Army, 2008).

Site-related contaminants (SRCs) identified in soils at the load lines included the following: inorganics (aluminum, antimony, arsenic, barium, cadmium, hexavalent chromium, and manganese), explosives (TNT and RDX), polychlorinated biphenyls (PCBs), and semivolatile organic compounds (SVOCs). The semivolatile SRCs included the following polycyclic aromatic hydrocarbons (PAHs): benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. Based on assessments completed during the RIs for the four load lines, explosives are mobile in water and may potentially leach from soils. Inorganics, PCBs and the PAHs are not expected to readily leach from soils. The RI analytical data indicated that Load Line 1 was the most contaminated of the four load lines as evidenced by the widest variety of contaminants detected, the highest frequencies of detection, and the highest COC concentrations. Load Line 4 was the least contaminated of the four load lines (Shaw, 2007).

The planned future land use for Load Lines 1 through 4 is for National Guard training. This area is slated to be developed as a vehicle maneuver area.

Under contract to the Army Environmental Command (AEC), Shaw E & I completed its remediation of surface soils and dry sediments outside the footprints of the buildings at Load Lines 1, 2, 3, and 4. Demolition of building superstructures at Load Lines 2, 3, and 4 was completed in winter 2007. A contract line item to remove the building slabs was exercised in winter 2007. As required by the IROD for soil remediation at Load Lines 1 through 4, the Army committed to performing periodic inspections of the concrete building slabs and building foundations to ensure their integrity had not been compromised, in order to prevent infiltration to potentially contaminated soil underlying the slabs and foundations. However, the IROD also recognized that the Army would eventually remove the building slabs (Shaw, 2007).

During the IROD preparation, the Ohio EPA had raised questions regarding preparation of a work plan detailing how the slabs would be removed, identification of associated environmental controls to minimize the potential spread of contamination, and soil sampling protocols. The Ohio EPA also identified that further remedial action may be needed for soil under the slabs, depending on the analytical results. The URS Delivery Order 0006 was issued to address the issues raised by the Ohio EPA regarding potential contamination of the underlying soil. The Work Plan accordingly describes the rationales used to support the Army's proposed sampling protocol.

The work covered by URS' Delivery Order 0006 (as modified) was to evaluate potential contamination below the floor slabs and to excavate and transport contaminated earth fill

materials above the chemical-specific cleanup goals for TNT and RDX. Once the evaluation was completed, the earth fill materials exceeding the SOW chemical cleanup criteria were to be excavated and disposed at a licensed disposal facility.

The removal of the buildings down to the floor slabs was completed by MKM Engineers, Inc. under a contract from BRACD. The BRACD exercised a Contract Line Item (CLIN) to remove floor slabs and any associated foundation walls to grade at these buildings. Floor slab removal by the BRACD contractor began in March 2008 and was completed in June 2008. Work was sequenced so that the areas thought to represent the least potential for residual contamination were addressed first. Work began at Load Line 4 and progressed to Load Lines 3 and 2. Within each load line, work was staged, in general, from one end of the load line to the other.

A limited number of soil samples were collected from locations beneath the building slabs and analyzed for SRCs during the completion of the RIs conducted for these load lines (Shaw, 2004a; b; c). Results of this sampling indicated that soil beneath the building sub-floors is generally uncontaminated. However, this conclusion was somewhat uncertain since it was based on a limited data set. Details of that sampling are described as follows:

Load Line 2

Seventeen samples of soil beneath building floor slabs were collected and analyzed for field explosives and target analyte list (TAL) metals. All field results for TNT and RDX were less than 1 mg/kg; thus, no sub-floor soil samples were submitted for fixed-base laboratory analysis of explosives. The TAL metal concentrations in all samples generally reflected an absence of inorganic contamination that may be attributed to facility operations. Maximum detected concentrations of six metals (aluminum, barium, chromium, iron, manganese, vanadium) were below the installation-specific background criteria. Concentrations of antimony, arsenic, beryllium, cadmium, calcium, cobalt, copper, lead, magnesium, mercury, nickel, potassium, selenium, sodium, thallium, and zinc were generally below background criteria. For these metals, only a few detections (no more than two out of 17) were above their respective criteria. Thallium was detected in almost all samples, but was not detected in background. The detections of thallium were all less than 1 mg/kg. Copper was also detected in most (10 of 17) of the samples above the background criteria. The highest detection of copper was 25.9 mg/kg, a result slightly above the background criteria of 17.7 mg/kg.

Load Line 3

Twelve samples of soil beneath building floor slabs were collected and analyzed for field explosives and TAL metals. The TAL metal concentrations in all samples generally reflected an absence of inorganic contamination that may be attributed to facility operations. Maximum detected concentrations of twelve metals (aluminum, arsenic, barium, beryllium, chromium, cobalt, manganese, mercury, nickel, selenium, sodium, vanadium) were below the installation-specific background criteria. Concentrations of calcium, iron, lead, magnesium, potassium, and zinc were generally below background criteria. For these metals, only a few detections (no more than four out of 12) were above their respective criteria. Copper was detected in most (nine of 12) of the samples above the background criteria. The highest detection of copper was 25.5 mg/kg, a result slightly above the background criteria of 17.7 mg/kg. Cadmium was detected in all 12 samples, but was not detected in background samples. The highest detection of cadmium was 0.42 mg/kg. Low detectable concentrations of thallium were also observed in some samples (thallium was not detected in background).

Four stations were analyzed for explosives. Field analytical results were 8.9 mg/kg for RDX at station LL3-069 and 1.3 mg/kg for station LL3-123; thus, these samples were submitted for fixed-base laboratory analysis of explosives. The laboratory analysis for station LL3-069 did not detect any explosives. Trace levels of 2,4-dinitrofluorene (DNF) (0.38 mg/kg) and TNT (0.98 mg/kg) were detected in the sample collected from station LL3-123 (Building EB-4A). Two additional samples from station LL3-061 and LL3-094 were also submitted for laboratory

analysis of explosives for confirmation purposes; trace levels of DNT (0.31 to 0.35 mg/kg) and TNT (0.063 to 0.13 mg/kg) were also detected in these samples.

Load Line 4

Nine samples of soil beneath building floor slabs were collected and analyzed for field explosives and TAL metals. All field results for TNT and RDX were nondetect; thus, no sub-floor soil samples were submitted for fixed-base laboratory analysis of explosives. Most TAL metal concentrations in sub-floor soil samples were less than RVAAP background values. Copper, magnesium, and zinc were generally greater than background concentrations.

Based on the above RI information, a sampling program was implemented to provide sufficient data at each load line building so that removal actions could be planned and accomplished as needed. The sampling design for each building location was based on historical information such as past usage, RI data, and similar operations at other ammunition plants. Field screening samples for TNT and RDX were collected for all building footprints to determine if any material required removal and fixed laboratory analyses were also used to determine if any further removal was warranted.

The details of the sampling and the results at each Load Line are described in the following report sections.

3.1 LOAD LINES 2, 3, 4, SUB-SLAB SAMPLING

As described previously, the sampling of soil below the removed building slabs at Load Lines 2, 3, and 4 was designed to determine whether concentrations of SRCs were at levels that represented a concern for human health, based on the reuse of the load lines for National Guard Training.

The load line buildings were grouped into three categories based on their potential for the presence of contamination in earth fill beneath the building floor slabs. The three categories were designated as high, medium, or low potential, and a field screening sampling scheme was developed for each category (URS, 2008). Screening samples were analyzed for TNT and RDX using EnSys soil test kits. Results were compared to the cleanup goals established in the IROD and adjusted based on the results of a correlation study of the accuracy of the field screening techniques (when compared to a fixed laboratory analyses). The details of the correlation study are included in the Field Screening Report (URS, 2009a). If there were no exceedances, an MI sample of the building footprint was then collected and analyzed for a more extensive suite of chemicals. Table 3-1 summarizes the cleanup goals used in these investigations.

The details of the screening analysis and the MI sampling and the results are included in reports for those activities (URS, 2009a and c). Summaries of those activities are described in the following sections.

3.1.1 Field Screening Summary

At each low and medium potential building, one field screening sample was collected from the approximate middle of the building footprint from approximately 0 to 12 inches bgs. The samples were biased toward any visual indications of contamination, if present. Additional samples were collected both within and outside building footprints as needed when visually impacted earth fill was observed.

Thirteen high potential buildings were identified at the three load lines. High potential buildings were believed to have the highest possibility for the presence of sub-slab contamination and were screened for RDX/TNT from multiple cores within each building footprint. Cores were taken down to 4 feet bgs and five portions of each core were selected for field analyses: the top, three portions within the core that best represented the range of lithologies found in the core, and the bottom. Because of sub-slab conditions however, five samples could not always be obtained from every core.

A total of 720 field screening samples were collected and processed in the temporary field screening laboratory located in Building 1036. The investigation was conducted between March 21, 2008 and May 22, 2008.

Table 3-1
Summary of Cleanup Goals for the National Guard Trainee
Ravenna Army Ammunition Plant
Ravenna, Ohio

Chemical of Concern	IROD Cleanup Goal, mg/kg ⁽¹⁾	Adjusted Cleanup Goal, mg/kg ⁽²⁾
Inorganics		
Aluminum	34,942	Not Applicable
Antimony	2,458	Not Applicable
Arsenic	31	Not Applicable
Barium	3,483	Not Applicable
Cadmium	109	Not Applicable
Chromium, hexavalent	16	Not Applicable
Lead	1,995	Not Applicable
Manganese	1,800	Not Applicable
Explosives		
2,4,6-TNT	1,646	878
RDX	838 ⁽³⁾	Not Applicable
PCBs		
Aroclor-1254	35	Not Applicable
SVOCs		
Benzo(a)anthracene	105	Not Applicable
Benzo(a)pyrene	10	Not Applicable
Benzo(b)fluoranthene	105	Not Applicable
Dibenz(a,h)anthracene	10	Not Applicable

⁽¹⁾ Cleanup Goals used in comparisons to MI sampling data.

⁽²⁾ Adjusted cleanup goal for TNT used only in comparisons to field screening data.

⁽³⁾ Cleanup goal for RDX used in both MI sampling and field screening sampling comparisons.

No exceedances of either the TNT adjusted cleanup goal (878 mg/kg) or the RDX IROD cleanup goal (838 mg/kg) were detected in any of the samples collected from the low or medium potential building footprints. At three high potential buildings within Load Line 3, eight TNT exceedances were noted. These occurred at Buildings EB-4, EA-6 and EA-6A.

Additional field screening samples collected from visually impacted soil observed after the slab removal indicated cleanup goal exceedances for TNT at Building DB-4 and DB-10 at Load Line 2 and Building EB-4A at Load Line 3.

Locations with TNT cleanup goal exceedances were covered with plastic in anticipation of subsequent excavation.

3.1.2 MI Sampling Summary

The purpose of the MI confirmatory sampling was to determine if additional excavation was required at any of the building locations beyond that already determined by the field screening effort. Multi-increment sampling was conducted at each footprint where the screening analyses indicated that TNT and RDX concentrations were below established cleanup goals. At some large building footprints, the footprint was divided into multiple MI decision units. At some smaller building footprints, multiple footprints were combined into one MI decision unit. The sampling was conducted during two field efforts. The first occurred between June 17 and July 2, 2008; the second occurred October 28 and 29, 2008. A total of 102 primary (i.e., exclusive of QC) MI samples were collected within the three load lines. The details of the sampling are included in URS (2009c).

The analytical data from the MI samples were evaluated by a comparison to soil cleanup goals established for RVAAP. The cleanup goals initially provided for the project were those listed in the IROD (Shaw, 2007). These levels were established based on a National Guard Trainee scenario for those chemicals considered SRCs for Load Lines 1 through 4. However, additional chemicals were detected in the MI samples. Additional cleanup goals were used based on either the draft Facility-Wide Cleanup Goal report (SAIC, 2008) or from USEPA's Regional Screening Levels (RSLs) (USEPA, 2009). In addition, potential additivity of adverse health effects from simultaneous exposure to multiple chemicals was accounted for in the comparative analysis.

The only building footprint where a cleanup goal was exceeded, based on MI sampling, was at EB-25 on Load Line 3. The concentration of TNT in the MI sample was 3,340 mg/kg; the concentration of RDX was 831 mg/kg. Therefore, Building EB-25 was included in the soil excavation planned for Load Line 3.

No additional areas for remediation were identified for Load Line 2 or Load Line 4. Since no areas were identified for remediation at Load Line 4, either by the screening analysis or by the MI sampling, no excavations were planned for this load line.

3.1.3 Determination of Remediation Areas

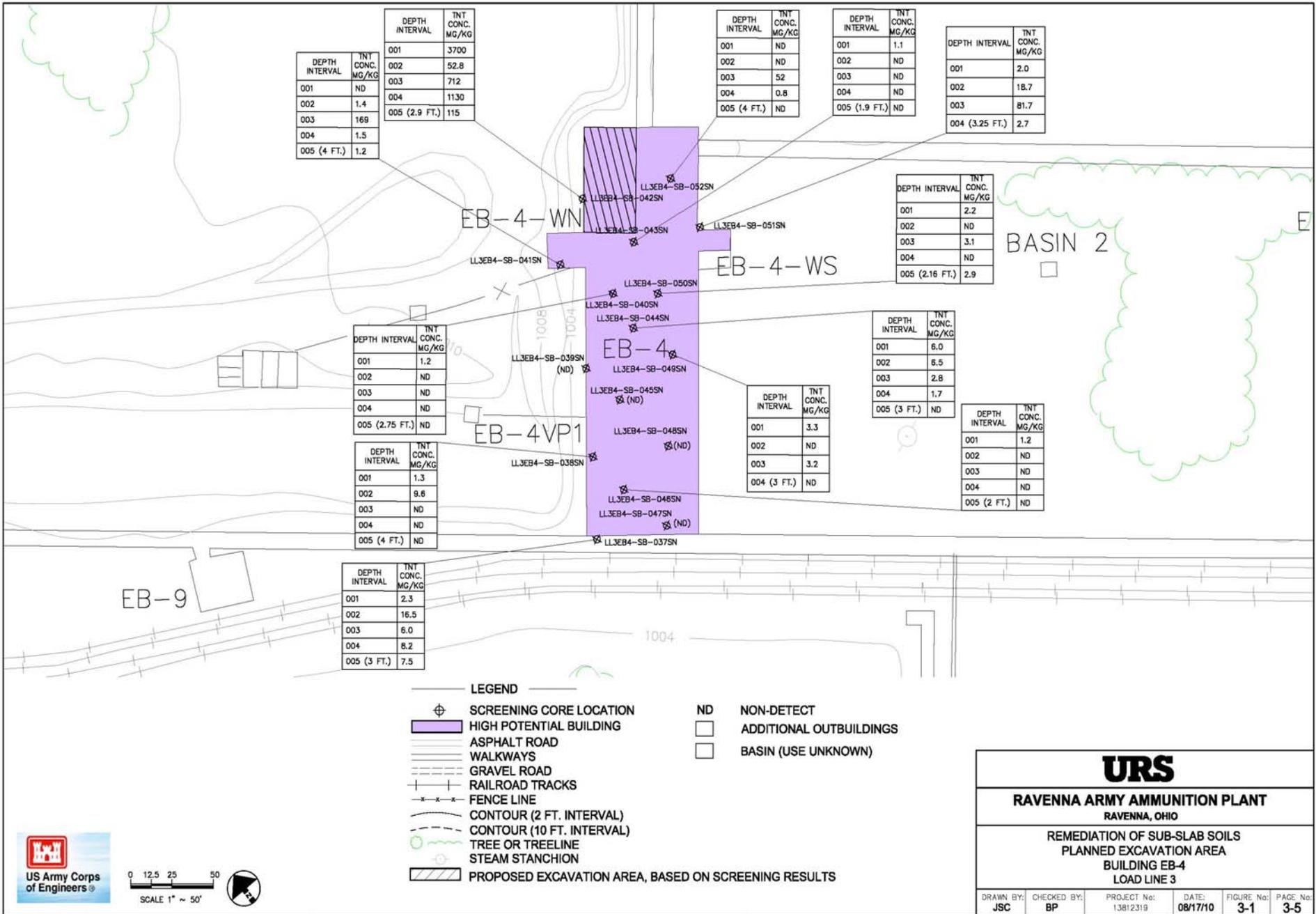
The 2008 field screening effort identified areas at three high potential buildings at Load Line 3 that exceeded the cleanup goals for TNT. These areas were designated for future remediation excavation work as indicated on Figures 3-1 and 3-2. These figures also show the field screening results. The three areas are summarized below:

- Building EB-4, Northeast corner of footprint and north sump area (EB-4-WN). This area exceeded the TNT cleanup goal down to approximately 3 feet bgs (the deepest interval sampled was 2.9 feet, because of refusal). Figure 3-1 indicates an area approximately 40 feet by 80 feet by 4 feet deep that required excavation.
- Building EA-6. This area exceeded the TNT cleanup goal in the deepest interval screened (4 feet). Figure 3-2 indicates an area approximately 20 feet by 20 feet by 5 feet deep that required excavation.
- Building EA-6A. This area exceeded the TNT cleanup goal in both the shallowest and deepest intervals screened from the coring collected in the northeast corner. Figure 3-2 indicates an area approximately 40 feet by 40 feet by 5 feet deep that required excavation.

Additionally, based upon field observations, there was explosive contaminated soil not fully delineated by the screening effort. Two of these additional areas were near the Load Lines 2 and 3 melt pour buildings and associated sump areas. The melt pour sumps appeared to have contributed to pink water emanating from the Load Lines 2 and 3 melt pour east foundations after slab removal. The elevator sump excavation at DB-4 was visually impacted at 3.5 feet bgs downgradient of the north sump. This area may have been impacted to the east building foundation.

Sampling outside the building footprints indicated three areas where remediation was warranted. They were:

- At Load Line 2, the North Elevator sump area (near Building DB-4) and the north sump area (near Building DB-4-WN) (Figure 3-3). The highest levels of TNT in the screening effort were observed in the pit area excavated around the north elevator sump. The pit contained standing water that was pink in color shortly after the slab removal effort. This pit required excavation of the visually impacted zone at approximately 3 feet bgs. Based on limited information regarding the extent of contamination, this removal area was approximately 60 feet by 60 feet by 4 feet deep.
- At Load Line 2, the area near DB-10 and DB-10-VP-2 (Figure 3-4). A large piece of TNT was removed from this area during the screening investigation. The area seemed to be superficially impacted, but no samples were collected at depth. Therefore, the depth to which excavation may be required was unknown. Based on the limited information regarding the extent of contamination, this removal area was approximately 20 feet by 60 feet by 2 feet deep.



DEPTH INTERVAL	TNT CONC. MG/KG
001	ND
002	1.4
003	169
004	1.5
005 (4 FT.)	1.2

DEPTH INTERVAL	TNT CONC. MG/KG
001	3700
002	52.8
003	712
004	1130
005 (2.9 FT.)	115

DEPTH INTERVAL	TNT CONC. MG/KG
001	ND
002	ND
003	52
004	0.8
005 (4 FT.)	ND

DEPTH INTERVAL	TNT CONC. MG/KG
001	1.1
002	ND
003	ND
004	ND
005 (1.9 FT.)	ND

DEPTH INTERVAL	TNT CONC. MG/KG
001	2.0
002	18.7
003	81.7
004 (3.25 FT.)	2.7

DEPTH INTERVAL	TNT CONC. MG/KG
001	2.2
002	ND
003	3.1
004	ND
005 (2.16 FT.)	2.9

DEPTH INTERVAL	TNT CONC. MG/KG
001	6.0
002	6.5
003	2.8
004	1.7
005 (3 FT.)	ND

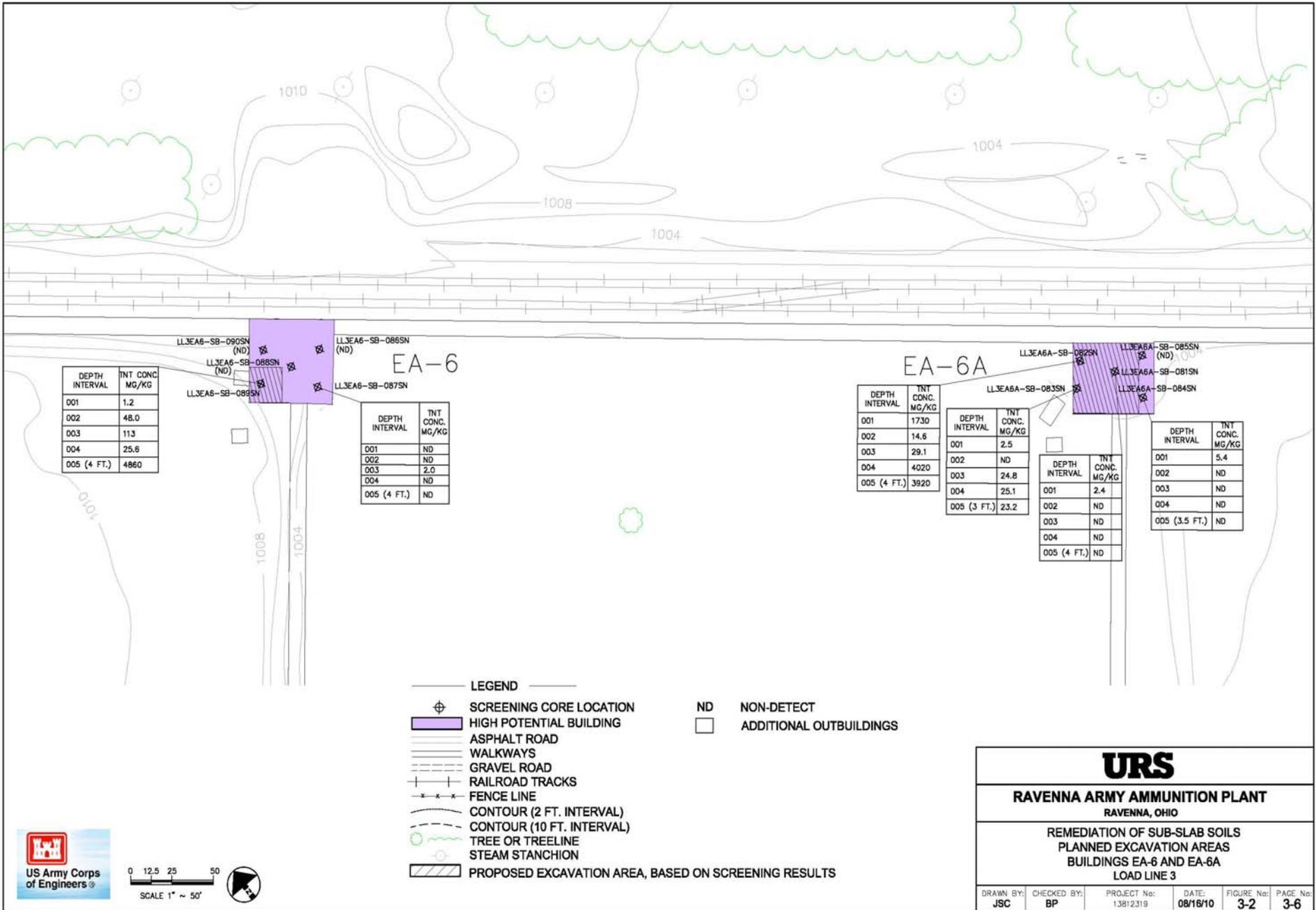
DEPTH INTERVAL	TNT CONC. MG/KG
001	1.2
002	ND
003	ND
004	ND
005 (2 FT.)	ND

DEPTH INTERVAL	TNT CONC. MG/KG
001	1.2
002	ND
003	ND
004	ND
005 (2.75 FT.)	ND

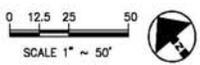
DEPTH INTERVAL	TNT CONC. MG/KG
001	1.3
002	9.6
003	ND
004	ND
005 (4 FT.)	ND

DEPTH INTERVAL	TNT CONC. MG/KG
001	3.3
002	ND
003	3.2
004 (3 FT.)	ND

DEPTH INTERVAL	TNT CONC. MG/KG
001	2.3
002	16.5
003	6.0
004	8.2
005 (3 FT.)	7.5



- LEGEND**
- SCREENING CORE LOCATION
 - HIGH POTENTIAL BUILDING
 - ASPHALT ROAD
 - WALKWAYS
 - GRAVEL ROAD
 - RAILROAD TRACKS
 - FENCE LINE
 - CONTOUR (2 FT. INTERVAL)
 - CONTOUR (10 FT. INTERVAL)
 - TREE OR TREELINE
 - STEAM STANCHION
 - PROPOSED EXCAVATION AREA, BASED ON SCREENING RESULTS
 - ND** NON-DETECT
 - ADDITIONAL OUTBUILDINGS

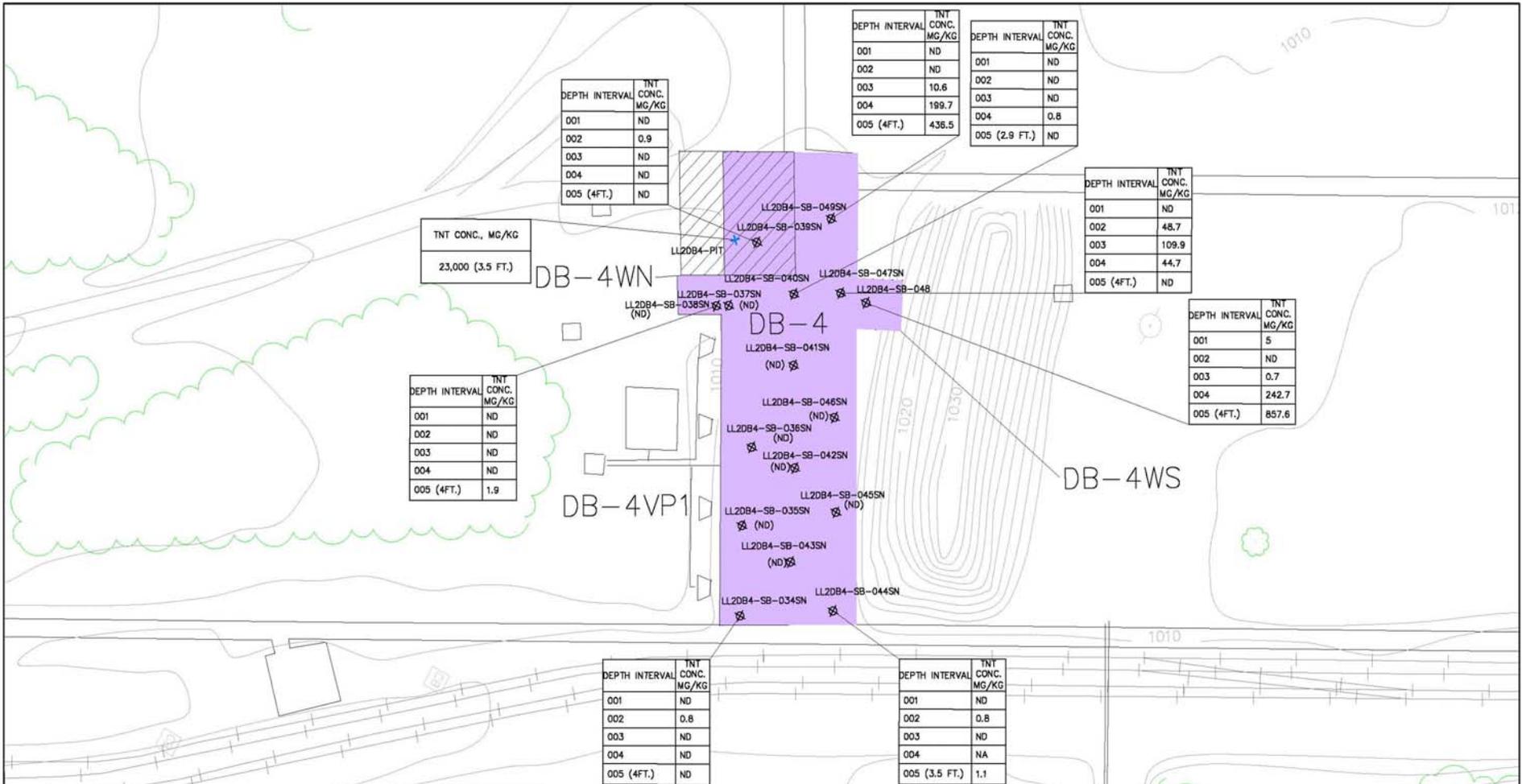


URS

RAVENNA ARMY AMMUNITION PLANT
RAVENNA, OHIO

REMEDIATION OF SUB-SLAB SOILS
PLANNED EXCAVATION AREAS
BUILDINGS EA-6 AND EA-6A
LOAD LINE 3

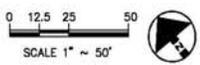
DRAWN BY: JSC	CHECKED BY: BP	PROJECT No: 13812319	DATE: 08/18/10	FIGURE No: 3-2	PAGE No: 3-6
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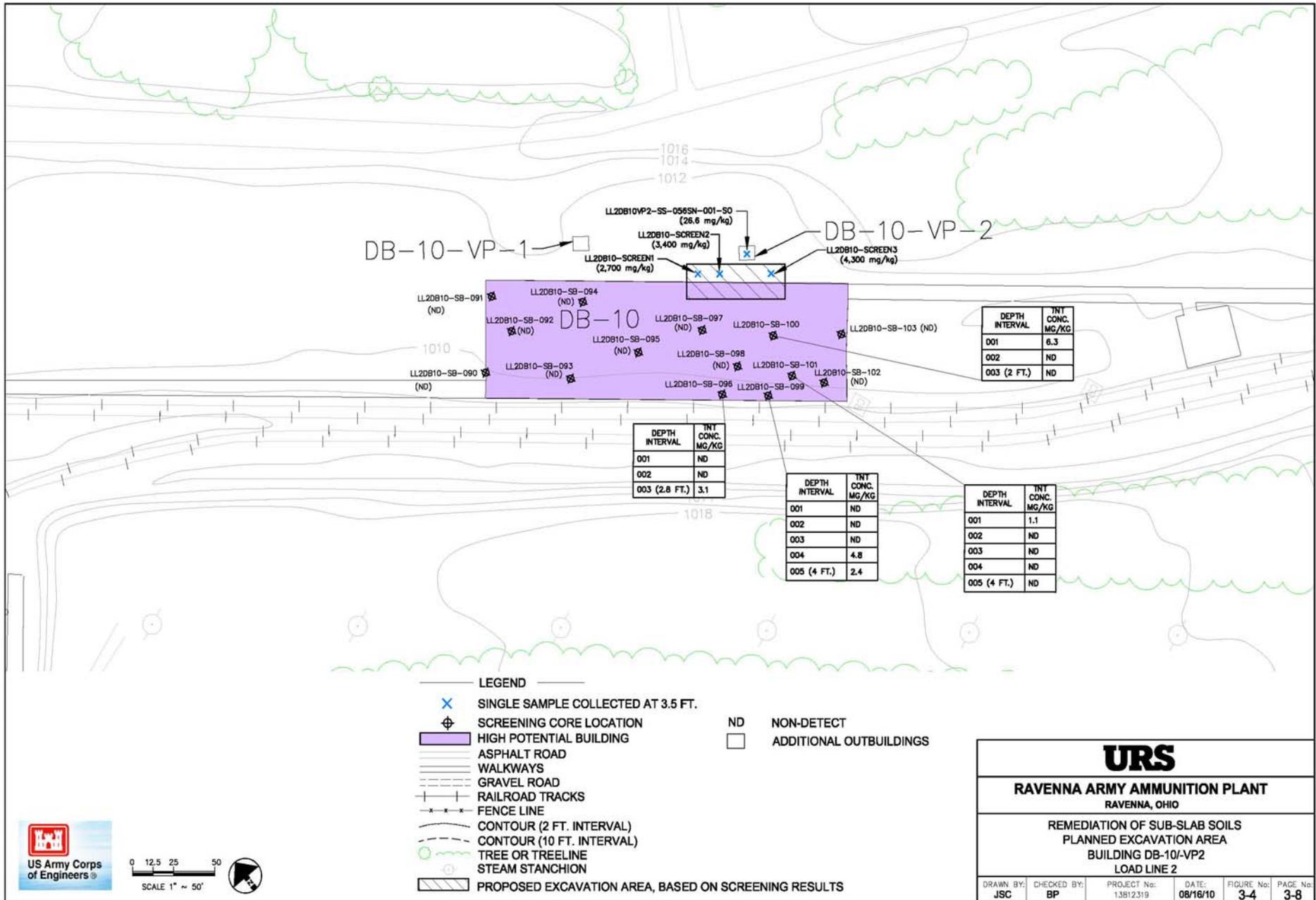
TNT CONC., MG/KG
23,000 (3.5 FT.)

LEGEND

- SINGLE SAMPLE COLLECTED AT 3.5 FT.
- SCREENING CORE LOCATION
- HIGH POTENTIAL BUILDING
- ASPHALT ROAD
- WALKWAYS
- GRAVEL ROAD
- RAILROAD TRACKS
- FENCE LINE
- CONTOUR (2 FT. INTERVAL)
- CONTOUR (10 FT. INTERVAL)
- TREE OR TREELINE
- STEAM STANCHION
- PROPOSED EXCAVATION AREA, BASED ON SCREENING RESULTS
- NON-DETECT
- ADDITIONAL OUTBUILDINGS
- VACUUM BAG HOUSE



URS				
RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO				
REMEDATION OF SUB-SLAB SOILS PLANNED EXCAVATION AREA BUILDING DB-4/4WN LOAD LINE 2				
DRAWN BY: JSC	CHECKED BY: BP	PROJECT No: 13812319	DATE: 08/18/10	FIGURE No: 3-3
			PAGE No: 3-7	



- At Load Line 3 outside the northeast corner of Building EB-4A and the sump area (EB-4A-WN) (Figure 3-5). This area was identified by soil staining that occurred after the field screening sample was collected. Additional field screening samples indicated the TNT cleanup goal exceedance. The sump area appeared to be the source of contamination and excavation of the sump was warranted. Based on the limited information regarding the extent of contamination, this removal area was approximately 40 feet by 60 feet by 4 feet deep.

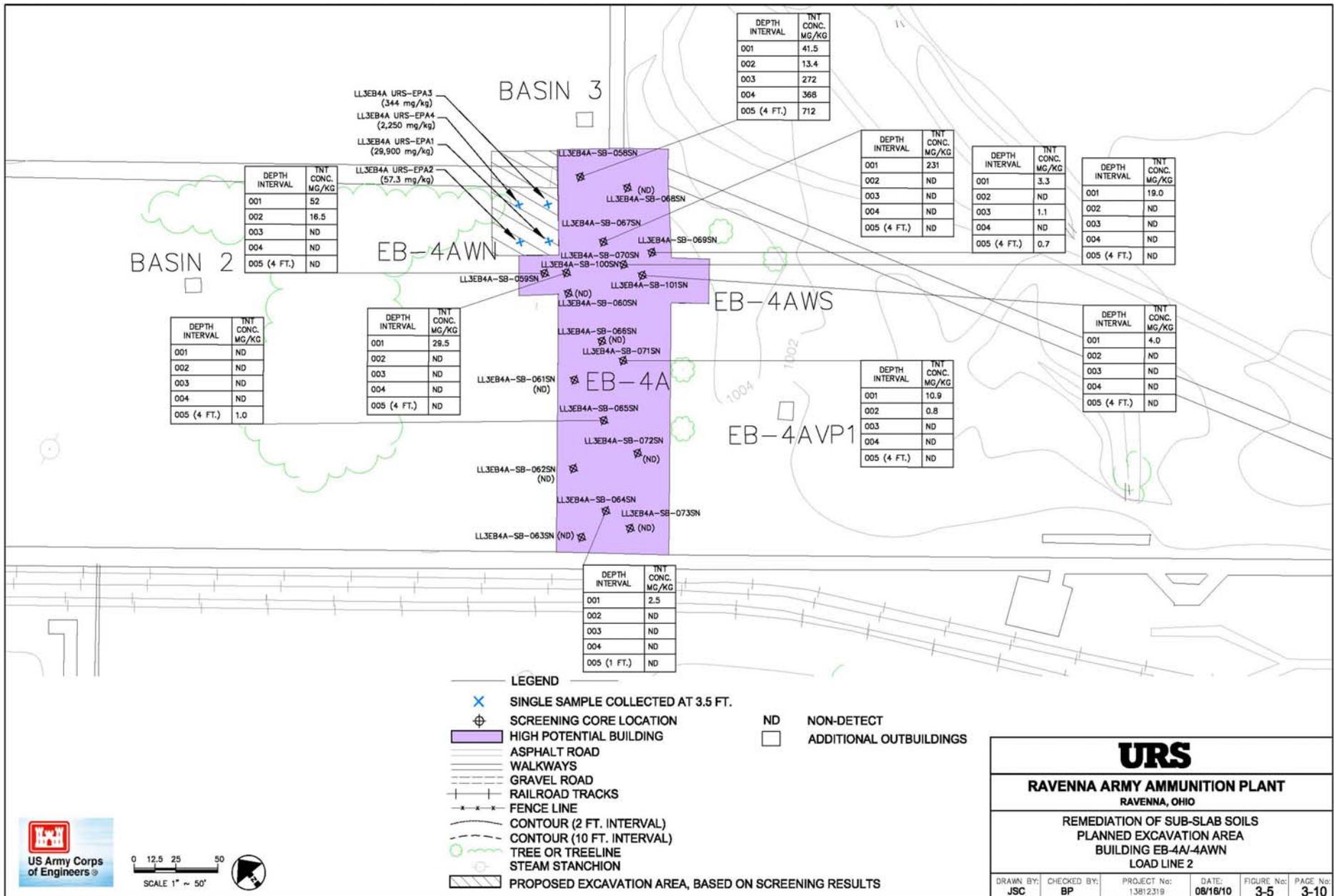
The confirmatory sampling conducted at most of the buildings at Load Lines 2, 3, and 4 confirmed that no further areas require remediation. The only building footprint where a cleanup goal was exceeded was at EB-25 on Load Line 3. At this location, product was discovered when the sampling crew arrived to collect the MI increments. This building footprint (which was covered with plastic after the MI sampling was completed) was included in the soil excavations planned for Load Line 3. The removal area was estimated at approximately 20 feet by 25 feet by 1 foot deep.

3.2 LOAD LINE 4 STOCKPILE REMOVAL

As part of the original SOW for Delivery Order 006, a task was included to characterize and remove materials that had been stockpiled inside buildings G-1, G-1A and G-3 at Load Line 4. The initial objective of this task was to remove this material so that contaminated soil from the other Load Lines could be stockpiled there. The objective was revised when it was decided that these buildings would be demolished. Therefore, the purpose of the characterization was to determine appropriate disposal requirements so that the material could be removed and demolition of the buildings by the BRACD demolition contractor could commence.

During a site visit conducted on March 7, 2008, it was determined that there were five stockpiles in two buildings (G-1 and G-3) as shown on Figure 1-5. No material for disposal was located in Building G-1A.

The five stockpiles were characterized for disposal by collection of an MI sample from each pile. Analytical results indicated that the material was nonhazardous. A summary of that data is included in Appendix B. Details of the removal of this material for disposal are included in Section 5 of this report.



This section describes the tasks performed to complete the remedial activities at Load Lines 2 and 3. The tasks conducted by URS consisted of the excavation and off-site disposal of contaminated surface and subsurface soils from discrete areas at Load Lines 2 and 3 as described in Section 3.1.3. The remedial activities were conducted in accordance with the approved Work Plan (URS, 2008 and 2009b).

4.1 PRE-MOBILIZATION AND MOBILIZATION ACTIVITIES

Prior to field sampling and excavations, a series of pre-mobilization activities were undertaken to ensure that all applicable requirements were met. These included obtaining any necessary permits, notifications to the RVAAP Facility Manager, Ohio EPA, the operating contractor, PIKA, Inc. (PIKA) and other stakeholders.

4.1.1 Pre-Construction Activities

Pre-construction tasks included establishing soil stockpile areas, haul routes, equipment and vehicle decontamination stations, and the installation of engineering controls in accordance with the Storm Water Pollution Prevention Plan (SWP3) (URS, 2010). A visual survey of the excavation areas was conducted on June 1, 2010, by a qualified Unexploded Ordnance (UXO) Technician prior to any construction activities to ensure there were no visible fragments of energetic material that had surfaced. Areas planned for excavation were flagged at that time.

4.1.2 Required Permits

The SWP3 was developed to specify the storm water erosion and sediment (E&S) controls for the remediation activities as required under the Ohio EPA General Permit for Storm Water Discharges Associated with Construction Activities (Ohio EPA Permit No. OHC000003) (URS, 2010). As part of the RVAAP permitting requirements, URS submitted a Notice of Intent (NOI) application and associated fee to the Ohio EPA to obtain coverage under the General Permit. URS prepared the NOI for BRACD, the agency responsible for management of environmental Areas of Concern (AOCs) at RVAAP. The requirement for this General Permit is State law and mandatory for any project that disturbs 1 or more acres of ground. The approval for coverage under the Ohio EPA General Permit (OHC000003) was received March 24, 2010. The approval letter is included in Appendix A.

4.1.3 Backfill Source

Approved clean backfill from an off-site source was required to restore the excavated areas to original grade. Soil samples from Patrick Excavating and Route 5 Sand and Gravel were collected on March 10, 2010, for use as possible backfill sources. The analytical results from soil located at Patrick Excavating did not exceed any CUG and was approved for use as backfill for the excavated areas. A summary of those data is included in Appendix B. Sample BF002 in Appendix B is the sample collected from Patrick Excavating.

4.1.4 Utility Clearance

Prior to intrusive excavation, any subsurface utilities identified as part of the slab removal effort were reviewed during the site walk over. No live utilities were present at any of the excavation areas.

4.1.5 Establishment of Truck Routes

Designation of truck routes was established for incoming and outgoing vehicles in order to minimize any impact to either RVAAP or the surrounding communities. All truck routes utilized the gate at Post 1 for both entering and exiting RVAAP. Haul routes for Load Lines 2 and 3 were initially determined in the SWP3. Field changes to these routes are shown on Figures C-1 and C-2 in Appendix C. All roadways were kept clear of dirt and debris.

4.2 MOBILIZATION AND SITE PREPARATION

Mobilization and site preparation included the following:

- Verification of utility layout,
- Coordination with site security at Post 1,
- Review of job safety analysis (JSA) with field crews for the activities conducted,
- Established any environmental monitoring operations in accordance with the Health and Safety Plan (HASP),
- Clearing and mowing of areas where constructions activities were conducted,
- Installation and maintenance of E&S control measures and stockpile/laydown areas,
- Set up of on-site field screening laboratory,
- Inspection and transportation of construction equipment to the site,
- Assurance that all necessary equipment was on site and ready for use, and
- Set up of decontamination facilities for vehicles exiting the excavation areas and a temporary area for decontaminating sampling equipment and personnel.

Approximately 1 acre of land, including areas graded for roadway access and prepared for lay-down of equipment materials and soil stockpiles, were disturbed during mobilization and site preparation activities. URS did not disturb any heavily wooded areas; only grass/shrubs within and near former building footprints that were overgrown due to inactivity at the facility were

removed. Each disturbed area was graded and seeded after construction activities were completed as described in Section 4.7.

4.2.1 Erosion Control

In accordance with the SWP3, E&S controls were accomplished by controlling runoff and then stabilizing soil. Diversion structures consisting of temporary earth dikes were formed upgradient of construction areas where the volume of overland flow was such that it was necessary to divert flow around disturbed portions of the Load Lines. As a best management plan, excavation operations were conducted in a manner to prevent muddy water, eroded materials, and other undesirable constituents of project construction waters from being discharged through storm water runoff.

To protect nearby waterways and environmentally sensitive areas, silt fencing was installed along the downgradient perimeter at all work areas. Silt fences were constructed using filter fabric staked to provide a barrier to transport silts, fines, and debris yet provide passage of runoff. Selection and type of grade of fabric were made to allow adequate passage of water. Stakes used to construct silt fences were made of wood with squared butt ends and tapered driving points. Filter fabric was stapled to stakes. All filter fences were maintained and inspected throughout excavation and disposal activities and will be removed after their function has been fulfilled and before filing of the Notice of Termination (NOT). The locations of the filter fences are shown on the Figures C-3 and C-4 in Appendix C. These figures include field changes made to the original SWP3 figures.

4.2.2 Stockpile Area

A soil stockpile/laydown area at each load line was constructed for excavated soil and fill material brought to RVAAP. The soil stockpile and lay down areas are shown on the figures within Appendix C. These figures include field changes made to the original SWP3 figures. The bottom of each stockpile was lined with two layers of 10 mil plastic and covered with a single layer of 10 mil plastic. Silt fence and soil berms were placed around the perimeter of the stockpiles to prevent storm-water and silt runoff or run-on during stockpiling activities.

4.3 EXCAVATION

URS mobilized a crew consisting of a Site Supervisor, two equipment operators, a truck driver, and a laborer on June 4, 2010. The crew utilized an excavator, rubber-tired loader, and off-road dump truck to perform excavation, on-site transportation, and stockpiling activities. Excavations were conducted in identified areas to a visual clean plus one additional foot laterally and vertically. The areas were observed and cleared by UXO personnel throughout the excavation process.

Field screening samples were collected for analysis of TNT. The samples were collected from the side walls, the excavation bottom, and any area that contained stained soil. If the

concentrations were below the adjusted CUG (878 mg/kg), an additional 6” of soil was removed over the entire excavation. If any concentration was above the adjusted CUG, an additional foot of soil was removed in the associated area and additional field screening samples were collected and evaluated until all TNT concentrations were below the adjusted CUG.

After the excavations were completed, a minimum of two MI samples were collected for each excavation. One MI sample was collected from the floor of the excavation; the second MI sample was collected from the side walls. Buildings EB-4A and EB-4 required multiple MI samples due to the size of the excavation and the influence of inclement weather. Therefore, EB-4 was excavated in two sections (a north and south section) and EB-4A was excavated in three sections (a north, south, and auxiliary area). The MI samples, one from the side walls and one from the excavation floor, were collected for each excavated section. Each MI sample was analyzed for all chemicals listed in the IROD.

Once the MI samples were obtained, the GPS coordinates of each of the corners as well as the depths of the excavation were determined. The excavation areas were then backfilled to final grade with the approved clean fill and stabilized with permanent open area seed from Ohio Prairie Nursery mixed according to Ohio Army National Guard specifications.

Excavations for Load Line 3 and Load Line 2 were conducted from June 4 through 17, 2010, and from June 21 through 24, 2010, respectively. Excavated soils were stockpiled temporarily prior to transporting to an approved disposal facility. The Load Line 3 stockpile and Load Line 2 stockpile were sampled for waste characterization on June 16, 2010 and June 24, 2010, respectively. Approximately 2,487 cubic yards of contaminated soils were excavated to a maximum depth of 5 feet below ground surface.

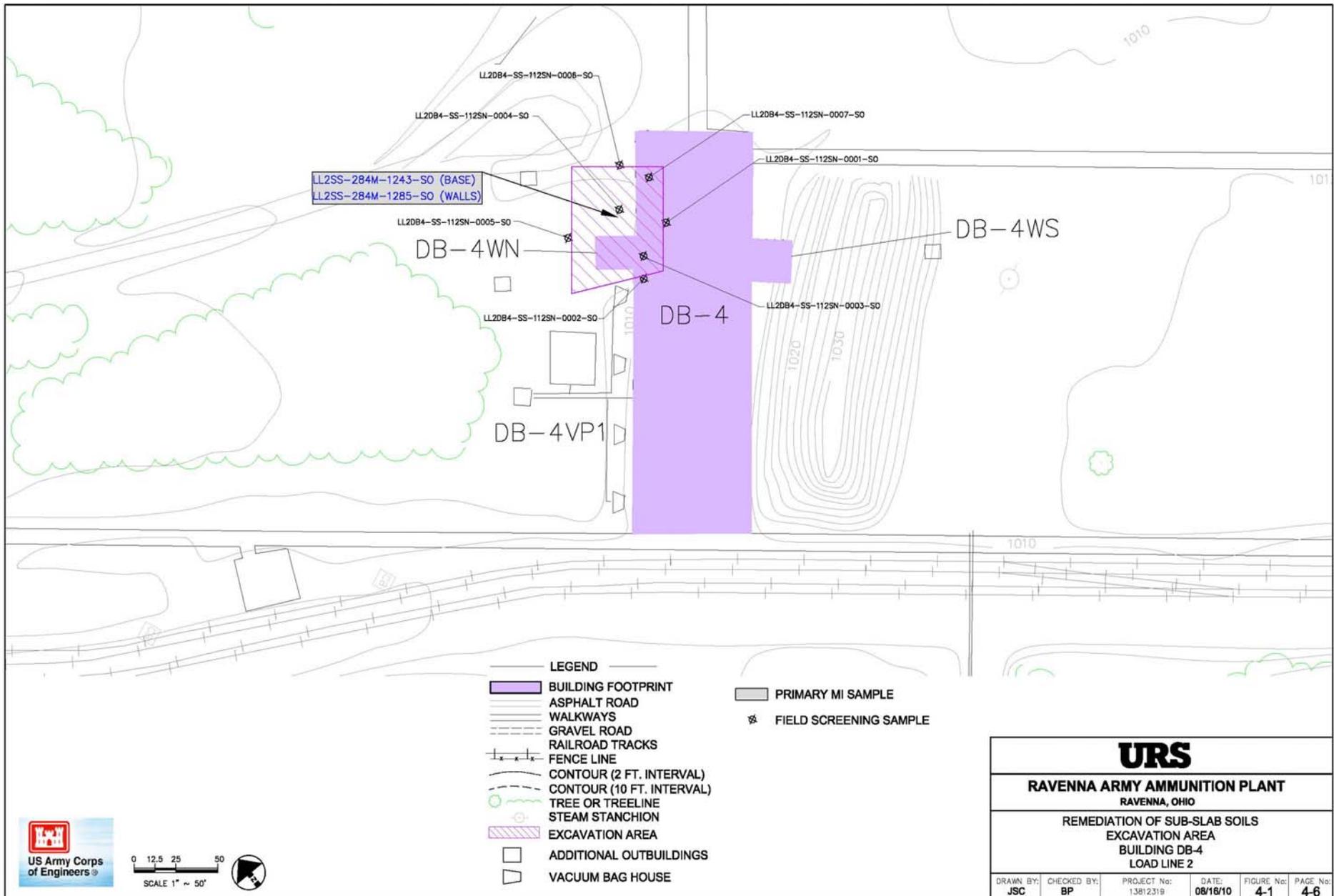
Table 4-1 summarizes the amount of soil excavated from each building footprint. Figures 4-1 through 4-6 illustrate the excavated areas and the locations of the field screening and MI samples. Field sampling forms and field sketches of the excavated areas are included in Appendix D.

Prior to excavation activities at Buildings DB-4 and EB-4A, surface water that had accumulated within the building footprints was pumped and stored into three 21,000 gallon tanks. Two tanks were staged at DB-4 and one tank was staged at EB-4A. Water continued to accumulate into the excavation from an adjacent area after excavation activities began at DB-4. Once the southern section of DB-4 was excavated, a portion of the MI sample was collected from the exposed walls and floor and was immediately backfilled to prevent further water accumulation. Due to inclement weather, the northern section was not excavated until the following day. After excavation activities resumed, the northern section was sampled and combined with the MI sample from the southern section of the excavation from the previous day. All MI subsamples were collected within 24 hours. The EB-4A and DB-4 tanks were sampled for waste characterization on June 16 and June 29, 2010, respectively. Waste characterization data for the collected surface water are included in Appendix B.

Table 4-1
Excavation and Backfill Summary for Load Lines 2 and 3
Ravenna Army Ammunition Plant
Ravenna, Ohio

Building		Total Excavated⁽¹⁾ (Cubic Yards, CY)	Total Backfilled (Tons)
Load Line 2	DB-4 / -4WN	791.11	1198.31
	DB-10 / -10VP2	94.21	159.83
	Total Load Line 2	885.32	1358.14
Load Line 3	EB-4 / -4WN	495.24	1092.56
	EB-4A / -4AWN	515.13	1269.16
	EA-6	139.68	200.7
	EA-6A	358.28	593.08
	EB-25	93.64	195.75
	Total Load Line 3	1601.97	3351.25
Load Line 2 and Load Line L3 Stockpile Restoration		--	159.9
	Total	2487.29	4869.29

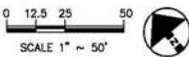
(1) Size and depth of excavations shown in field sketches in Appendix D.
Appendix D also includes GPS coordinates of the excavated areas.



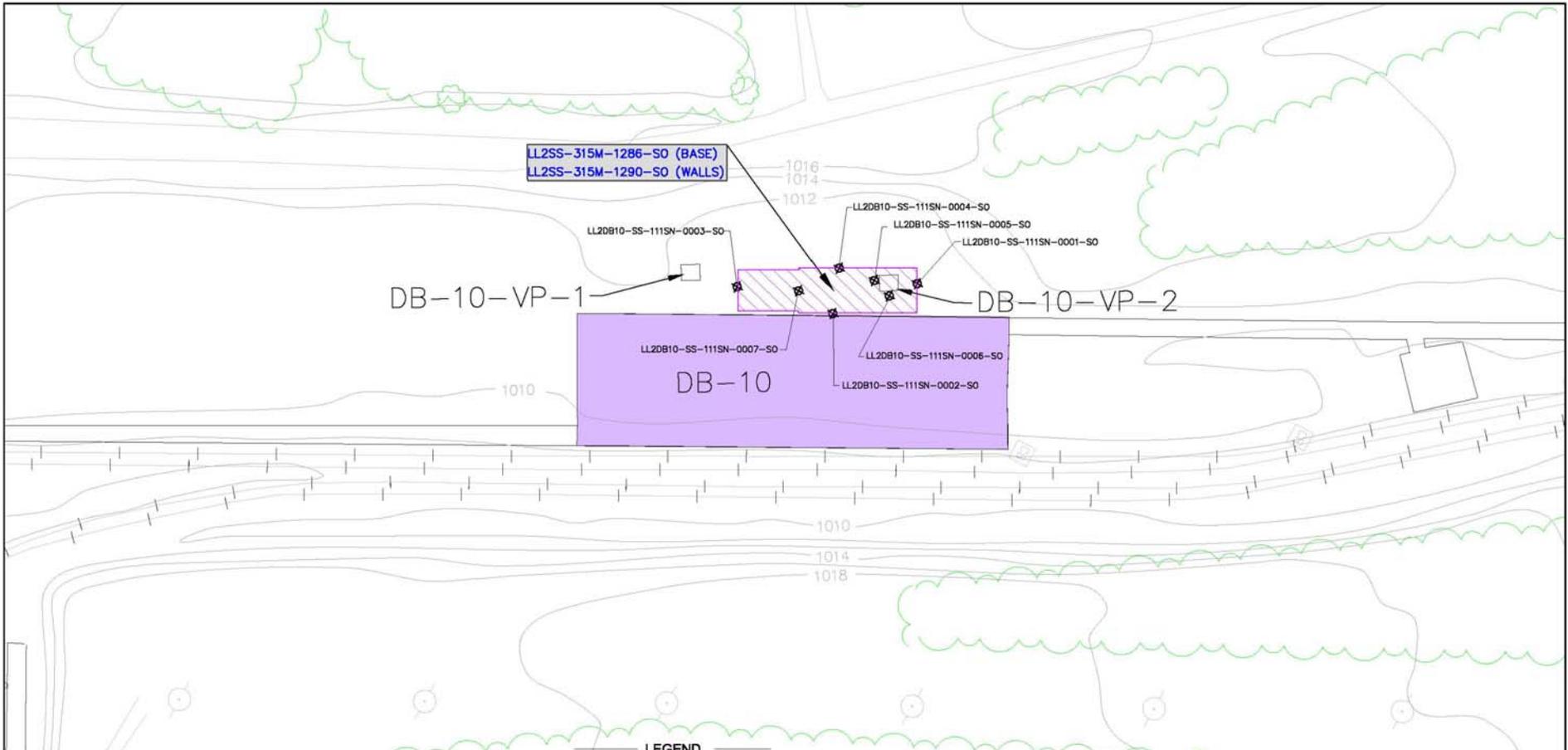
LL2SS-284M-1243-SO (BASE)
 LL2SS-284M-1285-SO (WALLS)

- LEGEND**
- BUILDING FOOTPRINT
 - ASPHALT ROAD
 - WALKWAYS
 - GRAVEL ROAD
 - RAILROAD TRACKS
 - FENCE LINE
 - CONTOUR (2 FT. INTERVAL)
 - CONTOUR (10 FT. INTERVAL)
 - TREE OR TREELINE
 - STEAM STANCHION
 - EXCAVATION AREA
 - ADDITIONAL OUTBUILDINGS
 - VACUUM BAG HOUSE

- PRIMARY MI SAMPLE
- FIELD SCREENING SAMPLE



URS					
RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO					
REMEDICATION OF SUB-SLAB SOILS EXCAVATION AREA BUILDING DB-4 LOAD LINE 2					
DRAWN BY: JSC	CHECKED BY: BP	PROJECT No: 13812319	DATE: 08/18/10	FIGURE No: 4-1	PAGE No: 4-6



LL2SS-315M-1286-SO (BASE)
 LL2SS-315M-1290-SO (WALLS)

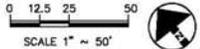
DB-10-VP-1

DB-10-VP-2

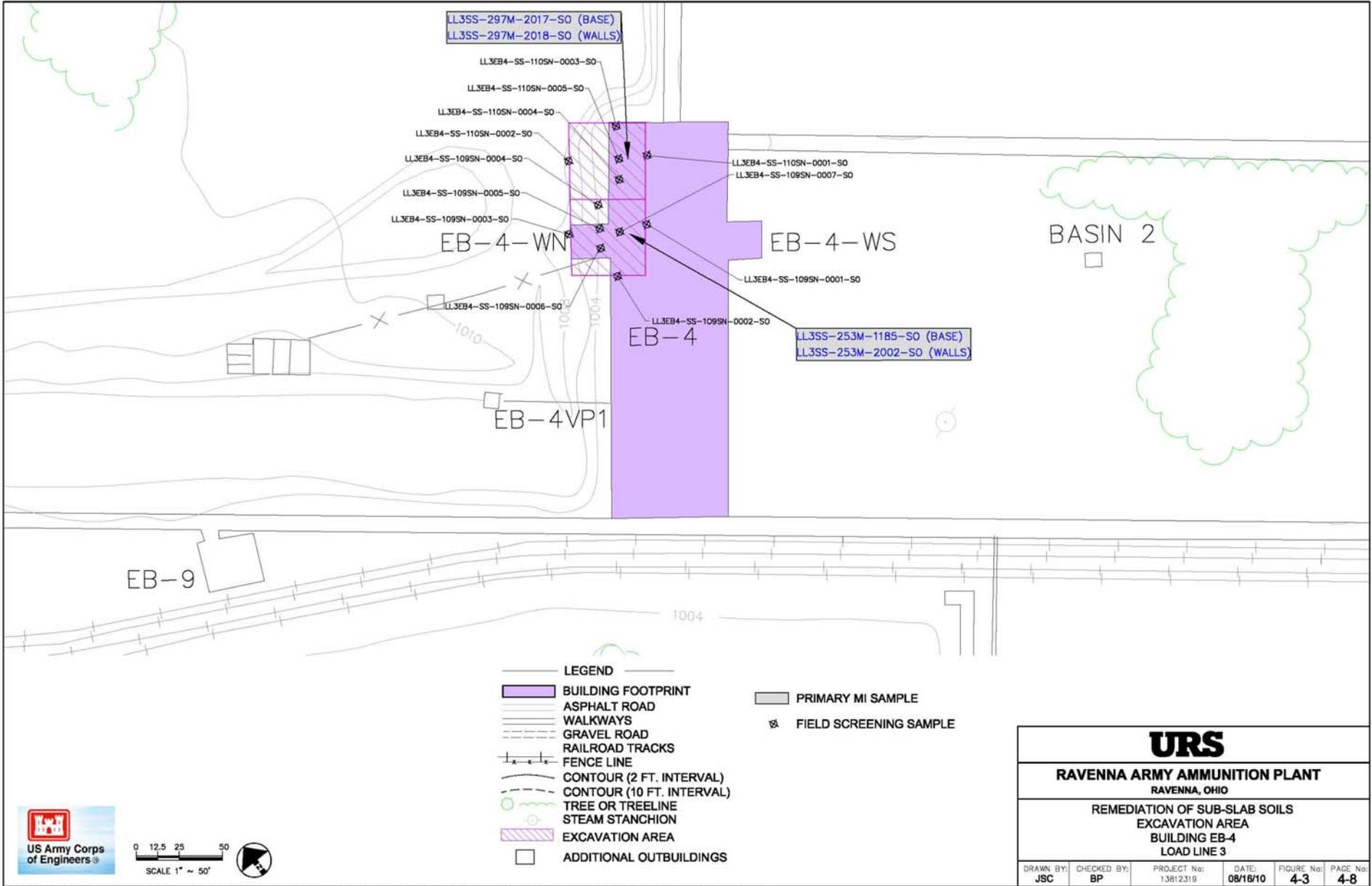
DB-10

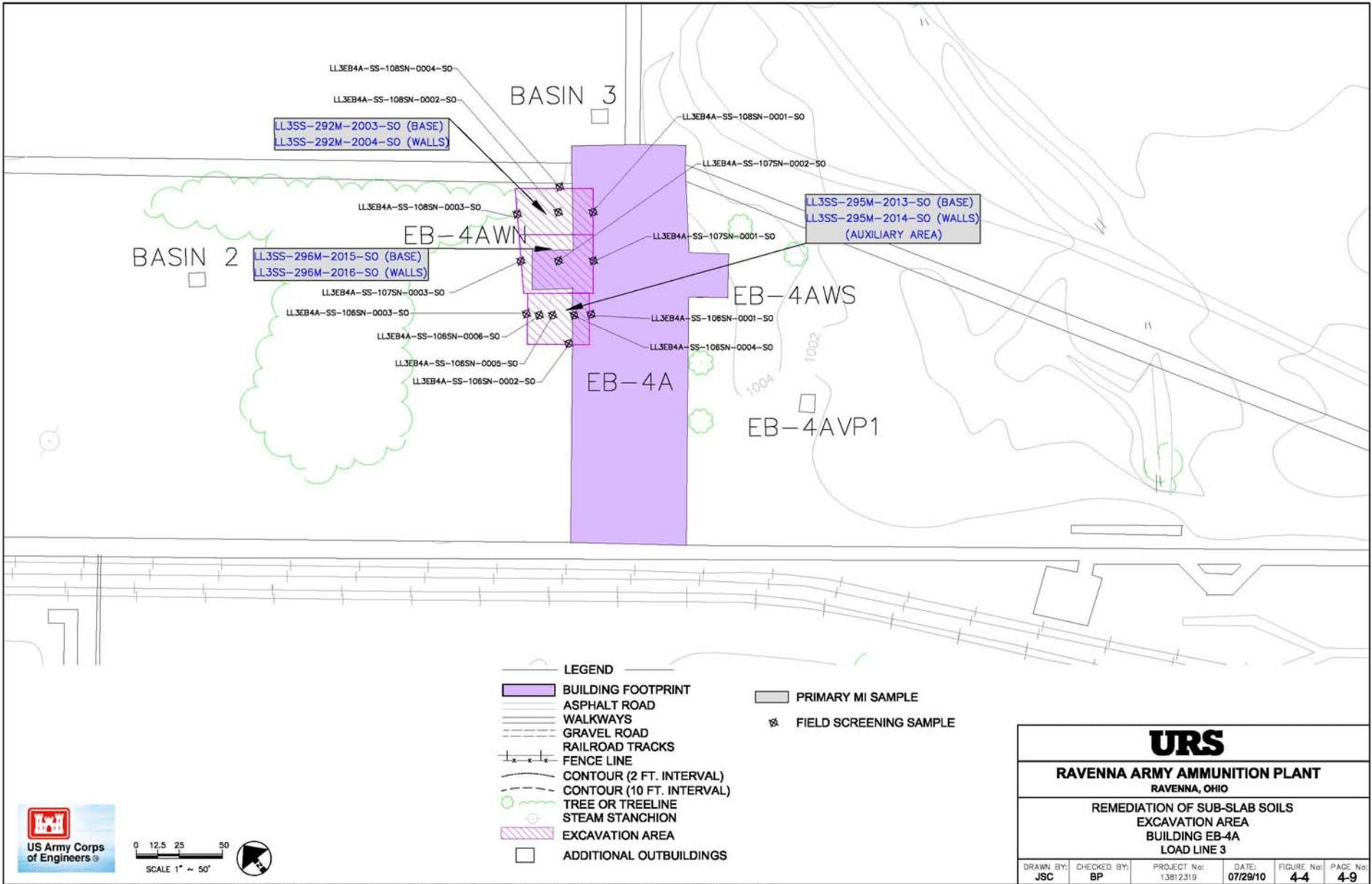
- LEGEND**
- BUILDING FOOTPRINT
 - ASPHALT ROAD
 - WALKWAYS
 - GRAVEL ROAD
 - RAILROAD TRACKS
 - FENCE LINE
 - CONTOUR (2 FT. INTERVAL)
 - CONTOUR (10 FT. INTERVAL)
 - TREE OR TREELINE
 - STREAM STANCHION
 - EXCAVATION AREA
 - ADDITIONAL OUTBUILDINGS

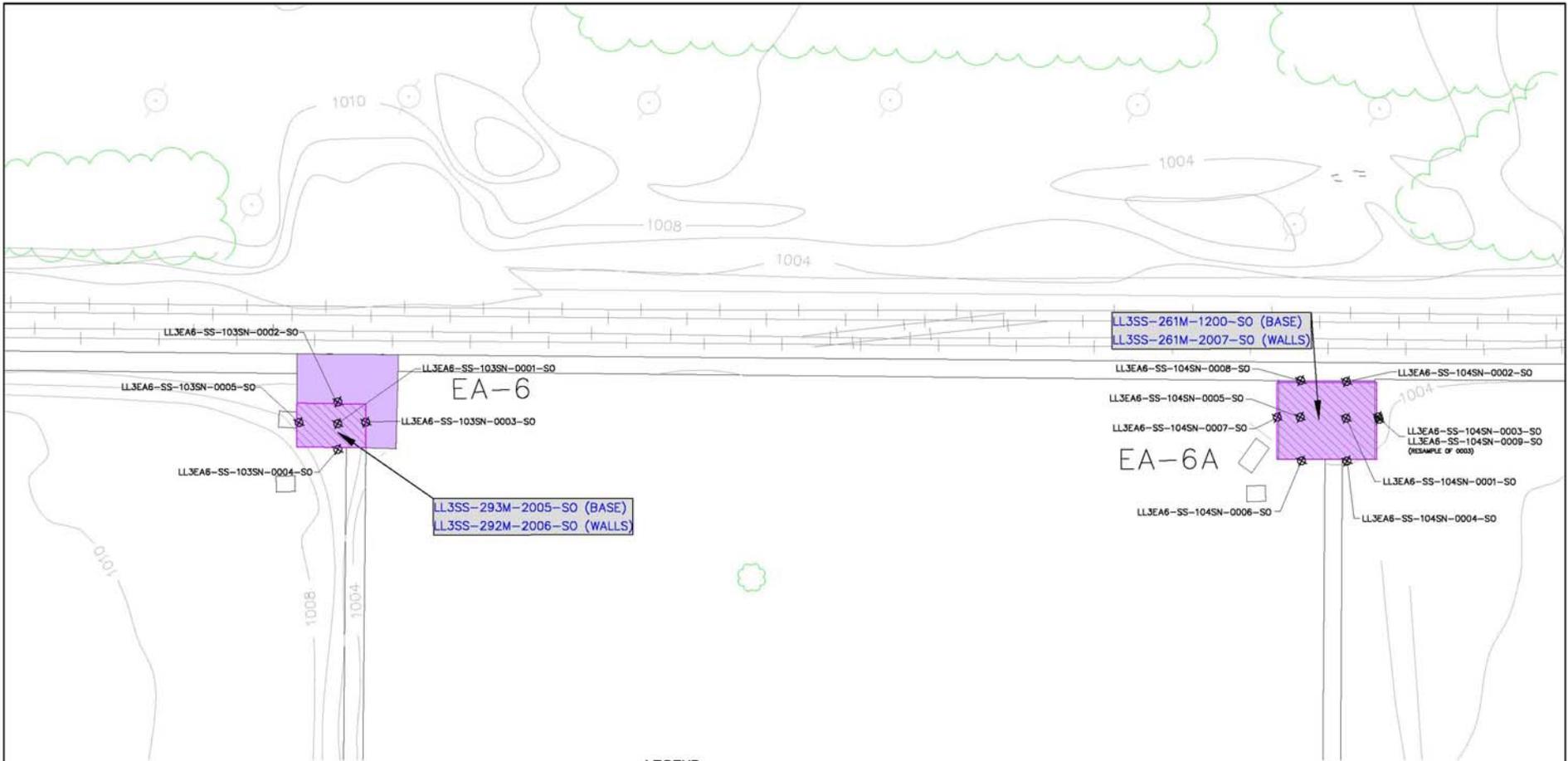
- PRIMARY MI SAMPLE
- FIELD SCREENING SAMPLE



URS				
RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO				
REMEDICATION OF SUB-SLAB SOILS EXCAVATION AREA BUILDING DB-10 LOAD LINE 2				
DRAWN BY: JSC	CHECKED BY: BP	PROJECT No: 13812319	DATE: 08/16/10	FIGURE No: 4-2 PAGE No: 4-7

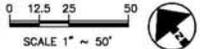




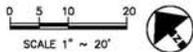
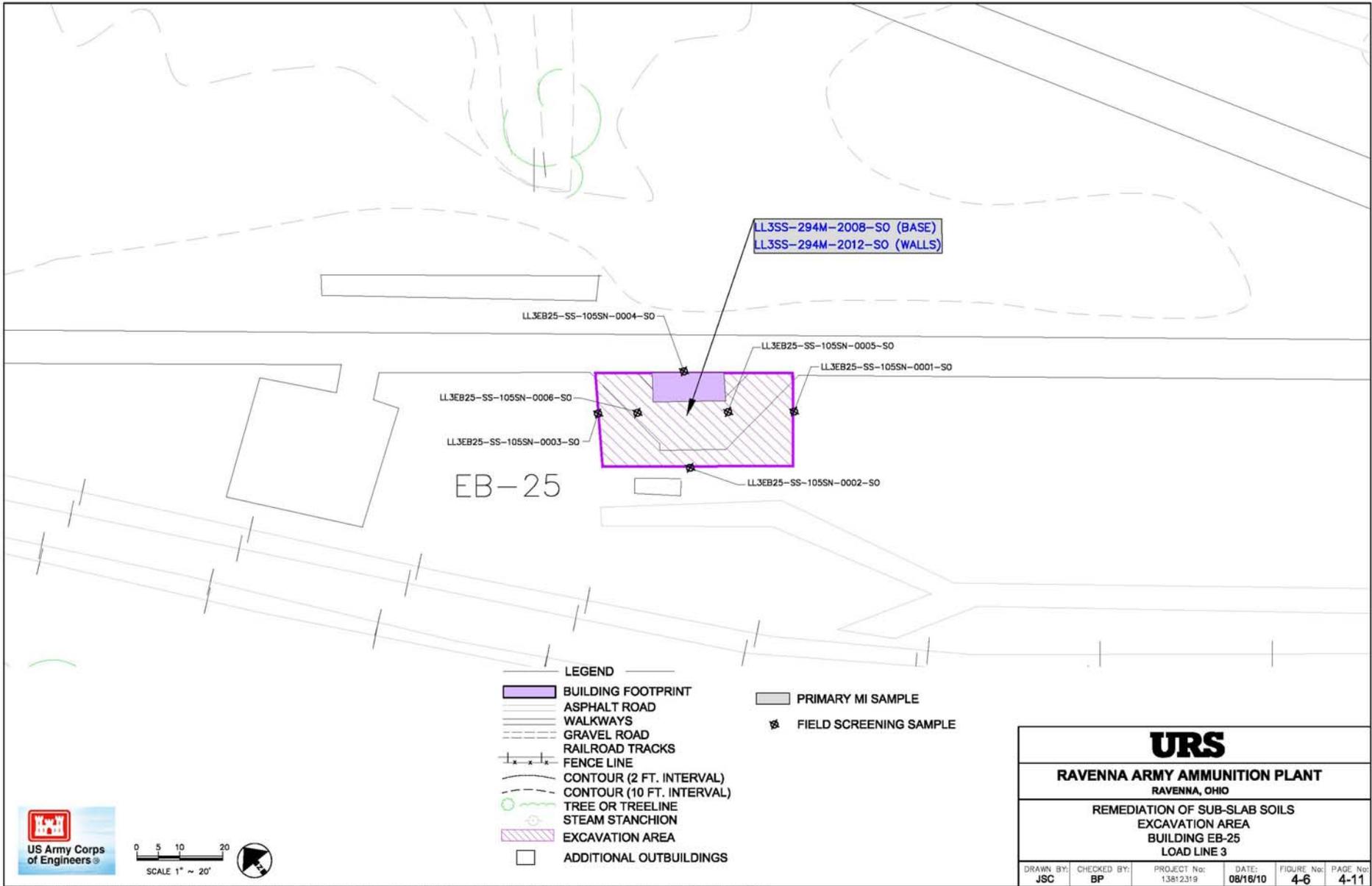


- LEGEND**
- BUILDING FOOTPRINT
 - ASPHALT ROAD
 - WALKWAYS
 - GRAVEL ROAD
 - RAILROAD TRACKS
 - FENCE LINE
 - CONTOUR (2 FT. INTERVAL)
 - CONTOUR (10 FT. INTERVAL)
 - TREE OR TREELINE
 - STEAM STANCHION
 - EXCAVATION AREA
 - ADDITIONAL OUTBUILDINGS

- PRIMARY MI SAMPLE
- FIELD SCREENING SAMPLE



URS					
RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO					
REMEDICATION OF SUB-SLAB SOILS EXCAVATION AREAS BUILDINGS EA-6 AND EA-6A LOAD LINE 3					
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- LEGEND**
- BUILDING FOOTPRINT
 - ASPHALT ROAD
 - WALKWAYS
 - GRAVEL ROAD
 - RAILROAD TRACKS
 - FENCE LINE
 - CONTOUR (2 FT. INTERVAL)
 - CONTOUR (10 FT. INTERVAL)
 - TREE OR TREELINE
 - STREAM STANCHION
 - EXCAVATION AREA
 - ADDITIONAL OUTBUILDINGS
 - PRIMARY MI SAMPLE
 - FIELD SCREENING SAMPLE

URS				
RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO				
REMEDICATION OF SUB-SLAB SOILS EXCAVATION AREA BUILDING EB-25 LOAD LINE 3				
DRAWN BY: JSC	CHECKED BY: BP	PROJECT No: 13812319	DATE: 08/18/10	FIGURE No: 4-6 PAGE No: 4-11

Terracotta pipes were discovered in the subsurface soils during excavating activities at areas EB-4 and EB-4A. At EB-4, approximately 1,000 to 2,000 gallons of “pink water” was released from the pipe into the excavation. Liquid was not encountered at the EB-4A location, however, staining was observed beneath the pipe. The stained soil was removed along both sides of the pipe until the soil was visually free of staining. This process created an auxiliary area south of Building EB-4AWN. After the soil was visually free of staining, an additional foot of soil was removed and field screening samples were collected and analyzed. The screening results were below the CUG and an additional 6” of soil was removed over the entire excavation. Due to ongoing inclement weather conditions and to prevent water accumulation, both EB-4 and EB-4A were excavated in sections and immediately backfilled. Building area EB-4 was excavated in two sections (north and south) and EB-4A was excavated in three sections (north, south, and auxiliary). The MI samples, one from the side walls and one from the excavation floor, were collected for each excavated section.

During excavation activities control measures were not necessary to prevent airborne releases of dust due to frequent precipitation. Additionally, most of the haul routes were located on old rail beds that contained track ballast which also helped prevent the airborne releases of dust. Visual and real time monitoring for dust during excavation activities was done in accordance with the Health and Safety Plan (HASP).

4.4 FIELD SCREENING SAMPLING

4.4.1 Sample Collection

The field screening was conducted in accordance with the *Facility-Wide Sampling and Analysis Plan* for the RVAAP (SAIC, 2001) and the approved Work Plan (URS, 2008 and 2009b). Field screening samples were collected from surficial earth fill or soil for analysis of TNT. In each excavation a minimum of five samples was collected. One sample was collected from the floor of the excavation and the remaining four samples were collected from each side wall. Samples were also collected in any visually contaminated area. The samples were collected using a small-diameter (7/8” inside diameter) stainless steel step probe and placed in new, sealable plastic bags. Soil screening samples were collected from June 4 to 24, 2010. Field sampling forms are included in Appendix D.

Field screening instruments, including the spectrophotometer and balance, were calibrated daily before analysis. Field screening quality control (QC) procedures included analyzing a laboratory control sample (LCS), a method blank extraction sample, and a field duplicate. The QC was performed at a frequency of one per 20 primary samples.

4.4.2 Sample Analysis

Soil test kits were used to determine TNT concentrations in the collected samples. Analysis was in accordance with the procedures in Appendix B of the Quality Assurance Project Plan (QAPP) Addendum within the approved Work Plan (URS, 2008).

The temporary field screening laboratory was equipped with materials to conduct the field screening operations on an as-needed basis to accommodate the sampling schedule. The work areas were covered with plastic to avoid contamination of testing process surface areas. The acetone used for the soil test extraction was stored in a storage cabinet (suitable for storing flammable materials) when not in use. The expended acetone/soil/water mix was stored in an approved 5-gallon container with containment in Building 1036. The extraction mix was consolidated into an approved 55-gallon waste fluid drum on an as-needed basis. The drum and all containers were appropriately labeled and staged for disposal.

Analyses were conducted from June 4 to 24, 2010. Field screening calculations and results are included in Appendix E.

4.4.3 Summary of Field Screening Results

The CUG initially provided for this project is that listed in the IROD (Shaw, 2007). The level was established based on a National Guard Trainee scenario for TNT. The CUG established in the IROD for TNT is 1,646 mg/kg.

The statistical analysis of the correlation samples collected during the previous screening effort at Load Lines 2, 3, and 4 indicated a significant low bias in the screening samples relative to the fixed lab concentrations. Therefore, there was some potential for a false negative (i.e., determining the cleanup goal was met when in fact it was exceeded) if the field screening result was measured between approximately 878 mg/kg and the TNT IROD cleanup goal of 1,646 mg/kg. Therefore, an adjusted CUG of 878 mg/kg was adopted for this field effort. Any area where a TNT screening result was above 878 mg/kg was further excavated by removing an additional foot of soil. Table 4-2 summarizes the field screening detections.

4.4.3.1 Load Line 2 Excavation Areas

A field screening exceedance of the adjusted TNT cleanup goal of 878 mg/kg was observed at one location, LL2DB10-SS-111SN-0006-SO. TNT was detected at a concentration of 3,090 mg/kg at Building DB-10 from the sample collected from a trench located on the floor of the excavation. The trench was further excavated another 3 feet to bedrock. Due to the lack of soil, the area could not be re-sampled; however, two additional samples were collected from other areas within the floor of the excavation. One sample, LL2DB10-SS-111SN-0007-SO, was collected from beneath a clay pipe and the remaining sample, LL2DB10-SS-111SN-0005-SO, was collected from the center of the floor. TNT results for both samples were below the adjusted CUG.

**Table 4-2
Field Screening Results – Detections Only
Ravenna Army Ammunition Plant
Ravenna, Ohio**

Sample ID	TNT, mg/kg (Adjusted Cleanup Goal: 878 mg/kg)
Load Line 2	
<u>Building DB-10:</u>	
LL2DB10-SS-111SN-0001-SO DIL 2	84
LL2DB10-SS-111SN-0002-SO	2.5
LL2DB10-SS-111SN-0003-SO	6.1
LL2DB10-SS-111SN-0004-SO	7
LL2DB10-SS-111SN-0005-SO DIL 1	128
LL2DB10-SS-111SN-0006-SO DIL 3	3,090
LL2DB10-SS-111SN-0007-SO	6
LL2DB10-SS-111SN-0007-SO DUP	3.1
<u>Building DB-4:</u>	
LL2DB4-SS-112SN-0004-SO DIL 1	177
LL2DB4-SS-112SN-0006-SO	1.9
LL2DB4-SS-112SN-0006-SO DUP	3.9
LL2DB4-SS-112SN-0007-SO DIL 2	261
Load Line 3	
<u>Building EA-6:</u>	
LL3EA6-SS-103SN-0005-SO	6
LL3EA6-SS-103SN-0005-SO DUP	5.5
<u>Building EA-6A:</u>	
LL3EA6A-SS-104SN-0002-SO	4.1
LL3EA6A-SS-104SN-0003-SO	12,111
LL3EA6A-SS-104SN-0009-SO	1.5
LL3EA6A-SS-104SN-0009-SO DUP	2.5
<u>Building EB-25:</u>	
LL3EB25-SS-105SN-0001-SO	3.1
LL3EB25-SS-105SN-0005-SO	2.2
<u>Building EB-4A:</u>	
LL3EB4A-SS-106SN-0001-SO	2.4
LL3EB4A-SS-106SN-0001-SO DUP	1.7
LL3EB4A-SS-106SN-0003-SO	2.8
LL3EB4A-SS-106SN-0004-SO	3.8
LL3EB4A-SS-106SN-0005-SO DIL 1	375
LL3EB4A-SS-106SN-0006-SO DIL 1	88
LL3EB4A-SS-108SN-0003-SO	90
LL3EB4A-SS-108SN-0003-SO DIL 2	331
<u>Building EB-4:</u>	
LL3EB4-SS-109SN-0003-SO	1.2
LL3EB4-SS-109SN-0004-SO DIL 2	178
LL3EB4-SS-109SN-0005-SO DIL 1	150
LL3EB4-SS-109SN-0006-SO DIL 3	249
LL3EB4-SS-109SN-0007-SO	1.7
LL3EB4-SS-110SN-0002-SO DIL 1	170
LL3EB4-SS-110SN-0004-SO DIL 1	135
LL3EB4-SS-110SN-0005-SO	15

Bold indicates cleanup goal exceedance.

4.4.3.2 Load Line 3 Excavation Areas

An exceedance of the adjusted TNT cleanup goal of 878 mg/kg was observed at one location at Load Line 3 excavations. TNT was detected at a concentration of 12,111 mg/kg at Building EA-6A along the eastern wall of the excavation. The wall was excavated an additional 12 inches to the east and re-sampled (sample LL3EA6A-SS-104SN-0009-SO) with a detected TNT concentration of 2.5 mg/kg.

4.5 CONFIRMATORY SAMPLING

4.5.1 Sample Collection

The MI sampling was conducted in accordance with the *Facility-Wide Sampling and Analysis Plan* for the RVAAP (SAIC, 2001) and the approved Work Plan (URS, 2008 and 2009b). The MI sampling was completed after the field screening sampling, and samples were collected from June 4 to 24, 2010. Figures 4-1 through 4-6 provide the primary sample identifiers at each building footprint excavation. Table 4-3 summarizes the MI sampling locations at the excavation areas.

The MI samples were collected from surficial earth fill or soil. Thirty subsamples were collected at each MI location to provide a representative, repeatable approximation of the average concentration of a particular constituent within a designated area. In each excavation, two MI samples were collected. One MI sample was collected from the floor of the excavation; the second MI sample was collected from the four side walls.

The sample aliquots were collected using a small-diameter (7/8" inside diameter) stainless steel step probe. The individual aliquots were obtained by pushing the step probe sampler from 0 – 12" or until refusal. The sub slab materials encountered were, in many cases, represented by a large percentage of large cobbles of rock and bedrock. These cobbles variably affected the sampling efforts by restricting the depth of sampling and recovery. At locations where refusal was encountered at less than 1.0 foot, at least five separate attempts were made to achieve the full sample depth. In all cases, multiple attempts were taken to collect each aliquot to depth and for recovery as needed. The entire volume of all aliquots was aggregated into a single field sample by placing the samples in a plastic-lined bucket. The entire sample was placed in a sealable plastic bag, secured, labeled, and then double bagged to increase the probability the sample would arrive at the lab intact. The sample was delivered to the analytical laboratory where the laboratory provided MI sample preparation, consisting of air-drying, sieving, and grinding.

Table 4-3
MI Excavation Sampling Summary for Load Lines 2 and 3 (RVAAP-09 and -10)
Ravenna Army Ammunition Plant
Ravenna, Ohio

Description					Sample ID	ANALYSES REQUIRED			
Sample Type	Building	Date	Time	Building Utilization and Sample Location		EXPL	MET	SVOCs	PCBs
Load Line 2	DB-4 / 4WN ⁽¹⁾⁽²⁾	6/23 & 6/24/2010	1445/1420	Melt Pour / Washout Annex - Base	LL2SS-284M-1243-SO	X	X	X	X
	DB-4 / 4WN ⁽¹⁾⁽²⁾	6/23 & 6/24/2010	1430/1345	Melt Pour / Washout Annex - Walls	LL2SS-284M-1285-SO	X	X	X	X
	DB-10 / 10VP2 ⁽¹⁾⁽²⁾	6/22/2010	1338	Drilling and Assembly Building - Base	LL2SS-315M-1286-SO	X	X	X	X
QA Sample	DB-10 / 10VP2 ⁽¹⁾⁽²⁾	6/22/2010	1338	Drilling and Assembly Building - Base	LL2SS-315M-1287-QA	X	X	X	X
Field MI Dup	DB-10 / 10VP2 ⁽¹⁾⁽²⁾	6/22/2010	1338	Drilling and Assembly Building - Base	LL2SS-315M-1288-SO	X	X	X	X
Blind Dup	DB-10 / 10VP2 ⁽¹⁾⁽²⁾	6/22/2010	1325	Drilling and Assembly Building - Base	LL2SS-315M-1289-SO	X	X	X	X
	DB-10 / 10VP2 ⁽¹⁾⁽²⁾	6/22/2010	1330	Drilling and Assembly Building - Walls	LL2SS-315M-1290-SO	X	X	X	X
Load Line 3	EB-4 / 4WN ⁽¹⁾	6/15/2010	1500	Melt Pour / Washout Annex - Base (South)	LL3SS-253M-1185-SO	X	X	X	X
MS	EB-4 / 4WN ⁽¹⁾	6/15/2010	1500	Melt Pour / Washout Annex - Base (South)	LL3SS-253M-1185-MS	X	X	X	X
MSD	EB-4 / 4WN ⁽¹⁾	6/15/2010	1500	Melt Pour / Washout Annex - Base (South)	LL3SS-253M-1185-MSD	X	X	X	X
	EB-4 / 4WN ⁽¹⁾	6/15/2010	1505	Melt Pour / Washout Annex - Walls (South)	LL3SS-253M-2002-SO	X	X	X	X
	EB-4 / 4WN ⁽¹⁾	6/16/2010	1250	Melt Pour / Washout Annex - Base (North)	LL3SS-297M-2017-SO	X	X	X	X
	EB-4 / 4WN ⁽¹⁾	6/16/2010	1240	Melt Pour / Washout Annex - Walls (North)	LL3SS-297M-2018-SO	X	X	X	X
	EB-4A /4AWN ⁽¹⁾⁽²⁾	6/14/2010	1800	Melt Pour / Washout Annex - Base (North)	LL3SS-292M-2003-SO	X	X	X	X
	EB-4A /4AWN ⁽¹⁾⁽²⁾	6/14/2010	1800	Melt Pour / Washout Annex - Walls (North)	LL3SS-292M-2004-SO	X	X	X	X
	EB-4AWN /Aux ⁽²⁾	6/10/2010	1525	Melt Pour Area Base, Auxiliary	LL3SS-295M-2013-SO	X	X	X	X
	EB-4AWN /Aux ⁽²⁾	6/10/2010	1525	Melt Pour Area Walls, Auxiliary	LL3SS-295M-2014-SO	X	X	X	X
	EB-4A /4AWN ⁽¹⁾⁽²⁾	6/14/2010	1330	Melt Pour / Washout Annex - Base (South)	LL3SS-296M-2015-SO	X	X	X	X
	EB-4A /4AWN ⁽¹⁾⁽²⁾	6/14/2010	1430	Melt Pour / Washout Annex - Walls (South)	LL3SS-296M-2016-SO	X	X	X	X
	EA-6 ⁽¹⁾	6/4/2010	1600	Explosives Preparation Building - Base	LL3SS-293M-2005-SO	X	X	X	X
	EA-6 ⁽¹⁾	6/4/2010	1530	Explosives Preparation Building - Walls	LL3SS-293M-2006-SO	X	X	X	X
	EA-6A	6/7/2010	1625	Explosives Preparation Building -Base	LL3SS-261M-1200-SO	X	X	X	X
	EA-6A	6/7/2010	1707	Explosives Preparation Building - Walls	LL3SS-261M-2007-SO	X	X	X	X
	EB-25	6/8/2010	1615	Washout Building - Base	LL3SS-294M-2008-SO	X	X	X	X
QA Sample	EB-25	6/8/2010	1615	Washout Building - Base	LL3SS-294M-2009-QA	X	X	X	X
Field MI Dup	EB-25	6/8/2010	1615	Washout Building - Base	LL3SS-294M-2010-SO	X	X	X	X
Blind Dup	EB-25	6/8/2010	1605	Washout Building - Base	LL3SS-294M-2011-SO	X	X	X	X
	EB-25	6/8/2010	1605	Washout Building - Walls	LL3SS-294M-2012-SO	X	X	X	X

	Primary MI Sample
	Quality Assurance
	Field MI Duplicate
	Blind Duplicate
	MS/MSD Pair

- (1) Excavation area is only a portion of the original building footprint.
(2) Excavation area extends beyond the boundaries of the original building footprint.

Three types of duplicate samples were collected for QC purposes: an MI duplicate, a Quality Assurance (QA) laboratory sample, and a blind duplicate. The MI and QA duplicates were two separate samples that were comprised of 30 subsample increments from the same locations as the primary MI sample. The blind duplicate was a separate sample comprised of 30 subsample increments from different locations within the same sampling area as the primary MI sample. The blind duplicate was collected after collecting the primary, MI duplicate, and QA laboratory samples. All duplicate samples were collected at a frequency of one per ten primary samples.

Matrix spike and matrix spike duplicate sample analyses were also requested from the laboratory at a frequency of one per 20 primary samples. Field equipment rinsates for soil samples were collected at a frequency of one per week of MI sampling.

Soil samples designated for QA/QC are also noted on Table 4-3.

Field sampling collection forms documenting each MI sample collected are included in Appendix D. Appendix F contains copies of the Chains of Custody and freight bills for these sampling events.

4.5.2 Sample Analysis

Analytical support for the MI sampling effort was assigned to Microbac Laboratories, Inc. (Microbac) of Marietta, Ohio. The QA laboratory, contracted through the Louisville USACE, was CT Laboratories, Baraboo, Wisconsin. All MI samples were analyzed for all the chemicals listed in the IROD.

4.5.3 MI Sample Data Verification

Data verification of the MI analytical data was conducted in accordance with Part II of the *Facility-Wide Sampling and Analysis Plan*, i.e., the Quality Assurance Project Plan (QAPP) (SAIC, 2001), the addendum to the QAPP in the approved Work Plan (URS, 2008), and the *Louisville Chemistry Guideline, Version 5 (LCG5)* (USACE, 2002). The verification was conducted in two stages using both an automated data review application and a manual review process. The Automated Data Review (ADR) software application was obtained from Laboratory Data Consultants, Inc. upon authorization from USACE and was used for the first stage of data verification. The ADR software evaluated the analytical data provided in laboratory electronic deliverable files by comparing project-specific method quality objectives for the following elements and applying data qualifiers as appropriate:

- ▶ Cooler temperature,
- ▶ Holding times (extraction and analysis),
- ▶ Units of measure and detection limits,
- ▶ Analyte lists,
- ▶ Method blank, trip blank, and equipment blank results,
- ▶ Laboratory data qualifiers,

- ▶ Laboratory Control Sample (LCS) results,
- ▶ Matrix Spike/Matrix Spike Duplicate (MS/MSD) results,
- ▶ Lab duplicate sample results,
- ▶ Field duplicate sample results,
- ▶ Surrogate recoveries (where applicable),
- ▶ Initial Calibrations, and
- ▶ Initial and Continuing Calibration Verification standards.

Subsequent to the automated review, URS chemists performed the second stage of data verification: confirming that data qualifiers were applied appropriately and manually evaluating information not checked by ADR. The information reviewed in this second stage included:

- ▶ Chain-of-Custody and sample login documents,
- ▶ Any nonconformances or analytical problems noted in the report narratives,
- ▶ Concentration of spikes relative to the parent sample concentrations,
- ▶ Concentration of duplicate samples relative to the sample reporting limits,
- ▶ Initial and Continuing Calibration Blank results,
- ▶ Method Reporting Limit (MRL) standard recoveries,
- ▶ Second column confirmation analyses, and
- ▶ Sample dilutions.

Based on the ADR and manual reviews, some sample results were qualified as estimated due to minor exceedances of various QC criteria (e.g., surrogate recovery limits, MS/MSD recovery or precision limits, duplicate precision limits, continuing calibration criteria, etc.). These results are flagged “J” or “UJ” (estimated) and are considered useable for meeting project objectives. Three nonconformances were noted in the laboratory narratives concerning equipment blanks. Blank LL3SS-297M-2017-ER was received greater than 24 hours after sample collection, so the hexavalent chromium analysis was performed out of holding. The result was qualified as estimated. The explosives fraction of the same blank was received missing a label and was logged in by the process of elimination based on the Chain of Custody. Finally, the metals fractions for blanks LL3SS-297M-2017-ER and LL3SS-295M-2014-ER were received unpreserved. At URS’s request and in accordance with Microbac’s SOP for preparation Method 3005, the unpreserved samples were adjusted to a pH <2 with nitric acid and allowed to rest for at least 18 hours prior to digestion. No qualifications were necessary due to the addition of preservative at the lab. No QC nonconformances were severe enough to warrant the qualification of associated results as unuseable.

4.5.3.1 Accuracy and Precision

The method quality objectives for accuracy and precision of laboratory analytical data are specified in the Facility-Wide QAPP and LCG5. Analytical accuracy is expressed as the percent recovery of an analyte that has been added to a blank sample or environmental sample at a known concentration before analysis. Accuracy was determined through the use of MS and LCS

analyses. The percent recovery for each spiked analyte was calculated to establish the accuracy of the analysis performed compared to the method quality objectives. Analytical precision was determined through the comparison of MS/MSD pair or positive laboratory duplicate pair results. The relative percent difference (RPD) between the two results was calculated to establish the precision of the analysis performed compared to the method quality objectives. Excursions of recoveries and RPDs outside of the QC control limits were minor. Overall, acceptable levels of analytical accuracy and precision were achieved.

Aggregate sample collection, preparation, and analytical precision was assessed through the analysis of two types of field duplicates. Field MI duplicates were collected from locations as close as possible to the same increment locations used to collect the primary sample, thereby assessing the precision of individual increment collection plus sample preparation, extraction/digestion, and analysis. Blind MI duplicates were collected from the same area (i.e., excavation footprint) as the primary sample, but collecting 30 new increment locations, thereby assessing the precision of the MI sampling protocol as applied to a given area, along with sample preparation, extraction/digestion, and analysis. Aggregate precision was determined as the RPD (a) between the primary sample and the Field MI duplicate and (b) between the primary/MI duplicate average and the blind duplicate.

Summaries of the field duplicate results and project-specific precision are presented in Tables 4-4 and 4-5 by parameter group and analyte. The tables list detected chemicals only, and RPDs are shown only when both concentrations are greater than five times the reporting limit, as required by the Facility-Wide QAPP. When one or more concentration is less than five times the reporting limit, the relative difference (the absolute difference divided by the reporting limit) is shown. Acceptable precision, according to the Facility-Wide QAPP, is demonstrated by an RPD of 50% or less, or a relative difference of 100% or less.

The field duplicate tables illustrate that precision for the majority of analytes met the project criteria. Chemicals with exceedances are noted below.

Chemical	Number of Duplicate Pairs Analyzed	Number of Duplicate Pairs Exceeding Criteria	
		MI Duplicates	Blind Duplicates
2,4,6-Trinitrotoluene	2	0	1
RDX	2	2	2
Benzo(a)anthracene	2	1	1
Benzo(a)pyrene	2	0	1
Benzo(b)fluoranthene	2	1	1
Aroclor-1254	2	0	1
Chromium, Total	2	0	1

4.5.3.2 Completeness, Representativeness, and Comparability

Completeness is a measure of the amount of valid (i.e., not rejected) data obtained from a measurement system compared to the amount expected to be obtained under ideal conditions. The overall project completeness goal identified in the Facility-Wide QAPP is 90% for each

Table 4-4
Assessment of Duplicate Samples - DB-10, Base
Ravenna Army Ammunition Plant
Ravenna, Ohio

Building		DB-10 / 10VP2, Base			Average of Primary & MI Dup	RPDs (for conc >5x RL)		Relative Diff. (Conc <5xRL)	
Sample ID	LL2SS-315M-1286-SO	LL2SS-315M-1288-SO	LL2SS-315M-1289-SO	Primary & MI Duplicate		Avg & Blind Dup	Primary & MI Duplicate	Avg & Blind Dup	
Date Collected	06/22/10	06/22/10	06/22/10						
Parameter	Reporting Limit	(Primary)	(MI Dup)	(Blind Dup)					
Explosives, mg/kg:									
2,4,6-Trinitrotoluene	0.25	46.4	52.4	61.4	49.4	12%	22%		
RDX	0.25	9.65 J	18.2 J	7.81 J	13.9 J	61%	56%		
Average:						37%	39%		
PAHs, µg/kg:									
Benzo(a)anthracene	165	1,010 J	821 J	420 J	916 J			115%	300%
Benzo(a)pyrene	165	1,130 J	864 J	452 J	997 J	27%			330%
Benzo(b)fluoranthene	165	957 J	751 J	358 J	854 J			125%	301%
Dibenz(a,h)anthracene	165	410 U	401 U	153 J	406 U			0%	30%
Average:						27%	NA	80%	240%
PCBs, µg/kg:									
Aroclor-1254	16.5	508 J	546	393 J	527 J	7.2%	29%		
Average:						7.2%	29%		
Metals, mg/kg:									
Aluminum	20	3,250	3,030	3,010	3,140	7.0%	4.2%		
Antimony	0.1	0.973	1.2	1.17	1.09	21%	7.4%		
Arsenic	0.3	5.03	3.51	4.01	4.27	36%	6.3%		
Barium	0.5	32.3	34.9	29.4	33.6	8%	13%		
Cadmium	0.1	0.388	0.385	0.322	0.387			3.0%	65%
Chromium, Total	0.25	19.8 J	13.9 J	9.72 J	16.9 J	35%	54%		
Lead	0.2	34.6 J	38.2 J	30.3 J	36.4 J	10%	18%		
Manganese	0.5	308	322	322	315	4.4%	2.2%		
Average:						17%	15%	3.0%	65%

Note: Concentrations >5x RL are **bolded**. RPD is applicable only if both concentrations are >5x RL.

U = The analyte was analyzed for, but was not detected. Value shown is the sample reporting limit.

J = Estimated concentration because the result was below the sample reporting limit or quality control criteria were not met.

NA = Not applicable.

RPD exceeds 50%.

Relative difference (absolute difference/reporting limit) exceeds 100%.

**Table 4-5
Assessment of Duplicate Samples - EB-25, Base
Ravenna Army Ammunition Plant
Ravenna, Ohio**

Building		EB-25, Base			Average of Primary & MI Dup	RPDs (for conc >5x RL)		Relative Diff. (Conc <5xRL)	
Sample ID		LL3SS-294M- 2008-SO	LL3SS-294M- 2010-SO	LL3SS-294M- 2011-SO		Primary & MI Duplicate	Avg & Blind Dup	Primary & MI Duplicate	Avg & Blind Dup
Date Collected		06/08/10 (Primary)	06/08/10 (MI Dup)	06/08/10 (Blind Dup)					
Parameter	Reporting Limit								
Explosives, mg/kg:									
2,4,6-Trinitrotoluene	0.25	0.765 J	0.843 J	2.35 J	0.804 J			31%	618%
RDX	0.25	1.28 J	0.469 J	2.19 J	0.9 J			324%	526%
Average:						NA	NA	178%	572%
PAHs, ug/kg:									
<i>None Detected</i>									
Average:						NA	NA	NA	NA
PCBs, ug/kg:									
Aroclor-1254	16.5	27.9 J	14.7 J	76 J	21.3 J			80%	332%
Average:						NA	NA	80%	332%
Metals, mg/kg:									
Aluminum	20	7,900	7,870	8,190	7,885	0.4%	3.8%		
Antimony	0.1	0.288	0.281	0.304	0.28			7%	20%
Arsenic	0.3	11.9	12	10.7	12.0	0.8%	11%		
Barium	0.5	64	63.1	64.7	63.6	1.4%	1.8%		
Chromium, Total	0.25	14.9	15.1	14.4	15.0	1.3%	4.1%		
Lead	0.2	27.7	16.7	16.3	22.2	50%	31%		
Manganese	0.5	784	779	805	782	0.6%	3.0%		
Average:						9%	9%	7%	20%

Note: Concentrations >5x RL are **bolded**. RPD is applicable only if both concentrations are >5x RL.

J = Estimated concentration because the result was below the sample reporting limit or quality control criteria were not met.

NA = Not applicable.

RPD exceeds 50%.

Relative difference (absolute difference/reporting limit) exceeds 100%.

parameter group. Since no analytical results were rejected, the percentage of valid results for the soil analyses ranged was 100%, thus meeting the project goal.

Representativeness expresses the degree to which data accurately and precisely represent actual environmental conditions. Representativeness is a qualitative parameter that depends greatly upon the proper design of the sampling program and proper laboratory protocol. It is evaluated using holding time criteria, which reflect the length of time after sample collection that a sample or extract remains representative of environmental conditions, and by analysis of laboratory method blanks, trip blanks, and equipment blanks, which are used to identify sources of contamination not associated with environmental conditions. The aggregate sampling and analytical precision determined by the field duplicate results is also an indicator of data representativeness. Holding times were not exceeded for any soil analyses, the blanks associated with project samples were free of contamination, and overall field duplicate precision was acceptable. The weight of evidence leads to the conclusion that representativeness was adequate, sufficient, and acceptable (as opposed to inadequate or unsatisfactory).

Comparability of the project data with historical data sets was satisfied by ensuring that the Facility-Wide QAPP and the project-specific QAPP addendum were followed, proper sampling techniques were used, and appropriate analytical procedures were followed.

The data collected from the excavation areas at Load Lines 2 and 3 can be trusted to make remediation decisions.

4.5.3.3 Sensitivity

Except where affected by sample dilutions, the laboratory detection limits were consistent with those stated in Appendix A of the project-specific QAPP. For all chemicals, the reporting limits were below the CUGs.

4.5.4 MI Sample Data Validation

MEC^x performed data validation for both the primary laboratory (Microbac Laboratories, Inc.) and the QA laboratory (CT Laboratories). The two QA samples analyzed by CT were validated at Level III (does not include review of the raw data), 10% of the primary samples analyzed by Microbac were validated at Level IV (includes a review of the raw data, including verification of compound identification and quantitation), and the remaining samples analyzed by Microbac were assessed by ADR. The purpose of the validation was to independently determine the useability and bias of the analytical data. Both the Data Validation Report (DVR) and the Chemical Quality Assurance Report (CQAR) are provided in Appendix G.

No significant concerns were identified by MEC^x for either data set. One minor concern reported for the Microbac data was that no matrix spike analyses or sample replicate analysis were performed for hexavalent chromium. This finding is incorrect. Both MS and duplicate analyses were performed on samples LL3SS-253M-1185-SO and LL3SS-293M-2005-SO. The results of these analyses were within acceptable control limits established by the QAPP.

MEC^x compared primary and QA sample results from 44 pairs of data points. Of those, four pairs of positive detections (representing 9.1% of the data) exceeded the control limits for precision. With over 90% of the data in agreement, the data set as a whole is considered useable. No additional qualification of the data based on the independent data validation is necessary.

4.5.5 Summary of MI Results

Twenty primary MI samples, two MI duplicates, and two blind field duplicates were collected from the 0-1 foot bgs interval and analyzed by Microbac. Table 4-6 summarizes the analytical results by location.

Explosives: TNT was detected in all 24 MI samples at concentrations ranging from 0.195 mg/kg to 1100 mg/kg. The maximum concentration was found in the excavation wall sample collected from the EB-4AWN Auxiliary area. RDX was detected in nine samples, with a minimum concentration of 0.29 mg/kg and a maximum of 18.2 mg/kg. The maximum concentration was detected in the MI duplicate sample collected from the excavation base at DB-10/10VP2.

PAHs: PAHs were detected in 15 MI samples at concentrations ranging from 83.8 µg/kg to 8660 µg/kg. The highest concentrations of PAHs were detected in the samples collected from the excavation base and walls at EA-6.

PCBs: Aroclor 1254 was detected in all 24 MI samples at concentrations ranging from 14.7 µg/kg to 2900 µg/kg. The highest concentration was detected in the sample collected from the excavation base at EB-4/-4WN (North). No other Aroclors were detected in the samples.

Metals: Aluminum, antimony, arsenic, barium, chromium (total), lead, and manganese were detected in all 24 MI samples. The maximum concentration of arsenic, 17.1 mg/kg, was detected in the excavation base sample collected at EA-6; and the maximum concentration of lead, 125 mg/kg, was detected in the excavation base sample from EB-4/-4WN (North). Cadmium was detected in 14 samples (maximum 0.79 mg/kg); hexavalent chromium was not detected in any samples.

4.6 LOAD LINE 2 AND LOAD LINE 3 SOIL STOCKPILE MAINTENANCE AND REMOVAL

Stockpile locations were inspected weekly or after ½ inches of rainfall to ensure their integrity was maintained. Repairs to the plastic or securing system were made immediately if necessary. The cover was secured to prevent any damage to the plastic or wind erosion of the material. Silt fences and soil berms were placed around the perimeter of the stockpile to prevent storm-water runoff or run-on.

Waste characterization was dictated by the requirements of the disposal facility. Samples were analyzed for Toxicity Characteristic Leaching Procedure (TCLP) SVOCs, TCLP metals, explosives, and total PCBs. Waste characterization data are included in Appendix B. The Load Line 3 stockpile and Load Line 2 stockpile were sampled for waste characterization on June 16, 2010, and June 24, 2010, respectively. A stockpile located near Building DB-802 that remained

**Table 4-6
Analytical Data Summary and Comparison to Cleanup Goals
Ravenna Army Ammunition Plant
Ravenna, Ohio**

Building			DB-4 / 4WN, Base	DB-4 / 4WN, Walls	DB-10 / 10VP2, Base	DB-10 / 10VP2, Base	DB-10 / 10VP2, Base	DB-10 / 10VP2, Walls	EB-4 / 4WN, Base (South)	EB-4 / 4WN, Walls (South)
Sample ID			LL2SS-284M- 1243-SO	LL2SS-284M- 1285-SO	LL2SS-315M- 1286-SO	LL2SS-315M- 1288-SO	LL2SS-315M- 1289-SO	LL2SS-315M- 1290-SO	LL3SS-253M- 1185-SO	LL3SS-253M- 2002-SO
Date Collected			06/24/10	06/24/10	06/22/10 (Primary)	06/22/10 (MI Dup)	06/22/10 (Blind Dup)	06/22/10	06/15/10	06/16/10
Parameter	Units	CUG ⁽¹⁾								
Explosives:										
2,4,6-Trinitrotoluene	mg/kg	1,646	5.49	2.08	46.4	52.4	61.4	15 J	37.5 J	0.195 J
RDX	mg/kg	838	0.0987 U	0.0995 U	9.65 J	18.2 J	7.81 J	1.32 J	0.0998 U	0.101 U
PAHs:										
Benzo(a)anthracene	ug/kg	105,000	102 J	81.3 UJ	1,010 J	821 J	420 J	372	124 J	89.7 J
Benzo(a)pyrene	ug/kg	10,000	101 J	81.3 UJ	1,130 J	864 J	452 J	420	147 J	95.9 J
Benzo(b)fluoranthene	ug/kg	105,000	83.8 J	81.3 UJ	957 J	751 J	358 J	343	124 J	79.6 UJ
Dibenz(a,h)anthracene	ug/kg	10,000	81.5 UJ	81.3 UJ	410 U	401 U	153 J	145 J	86.2 J	79.6 UJ
PCBs:										
Aroclor-1016	ug/kg	NA	8.3 U	8.16 U	8.17 U	8.05 U	8.09 U	8.07 U	8.12 U	8.28 U
Aroclor-1221	ug/kg	NA	8.3 U	8.16 U	8.17 U	8.05 U	8.09 U	8.07 U	8.12 U	8.28 U
Aroclor-1232	ug/kg	NA	8.3 U	8.16 U	8.17 U	8.05 U	8.09 U	8.07 U	8.12 U	8.28 U
Aroclor-1242	ug/kg	NA	8.3 U	8.16 U	8.17 U	8.05 U	8.09 U	8.07 U	8.12 U	8.28 U
Aroclor-1248	ug/kg	NA	8.3 U	8.16 U	8.17 U	8.05 U	8.09 U	8.07 U	8.12 U	8.28 U
Aroclor-1254	ug/kg	35,000	406	131	508 J	546	393 J	1050	1280	68.3
Aroclor-1260	ug/kg	NA	8.3 U	8.16 U	8.17 U	8.05 U	8.09 U	8.07 U	8.12 U	8.28 U
Metals:										
Aluminum	mg/kg	34,942	9,500	7,700	3,250	3,030	3,010	3,580	5,840	5,090
Antimony	mg/kg	2,458	0.347	0.355	0.973	1.2	1.17	0.608	0.471	0.45
Arsenic	mg/kg	31	15.0	13.7	5.03	3.51	4.01	8.41	14.8 J	10.3 J
Barium	mg/kg	3,483	82.9	56.8	32.3	34.9	29.4	32.3	39.1	33.0
Cadmium	mg/kg	109	0.321	0.0731 J	0.388	0.385	0.322	0.452	0.376	0.14
Chromium, Trivalent ⁽²⁾	mg/kg	120,000	17.4	13.3	19.8 J	13.9 J	9.72 J	15.5	16.6	15.0
Chromium, Hexavalent	mg/kg	16	0.242 U	0.0493 U	0.0488 U	0.0479 U	0.0999 U	0.0488 U	0.1 U	0.0488 U
Lead	mg/kg	1,995	26.2 J	17.3 J	34.6 J	38.2 J	30.3 J	73.0 J	35.2 J	21.2 J
Manganese	mg/kg	1,800	477	403	308	322	322	315	542	384

U = The analyte was analyzed for, but was not detected. Value shown is the sample reporting limit.

UJ = The analyte was not detected at or above the sample reporting limit. However, the reporting limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

J = Estimated concentration because the result was below the sample reporting limit or quality control criteria were not met.

Bold = Detected concentration

(1) Interim Record of Decision Cleanup Goal for a National Guard Trainee (Shaw 2007).

(2) Concentrations for trivalent chromium were calculated by subtracting the hexavalent chromium result from the total chromium result. The value shown in the "CUG" column is the May 2010 USEPA Regional Screening Level (RSL).

**Table 4-6
Analytical Data Summary and Comparison to Cleanup Goals
Ravenna Army Ammunition Plant
Ravenna, Ohio**

Building			EA-6A, Base	EA-6A, Walls	EB-4A /4AWN, Base (North)	EB-4A /4AWN, Walls (North)	EA-6, Base	EA-6, Walls	EB-25, Base	EB-25, Base
Sample ID			LL3SS-261M- 1200-SO	LL3SS-261M- 2007-SO	LL3SS-292M- 2003-SO	LL3SS-292M- 2004-SO	LL3SS-293M- 2005-SO	LL3SS-293M- 2006-SO	LL3SS-294M- 2008-SO	LL3SS-294M- 2010-SO
Date Collected			06/07/10	06/07/10	06/14/10	06/14/10	06/04/10	06/04/10	06/08/10 (Primary)	06/08/10 (MI Dup)
Parameter	Units	CUG ⁽¹⁾								
Explosives:										
2,4,6-Trinitrotoluene	mg/kg	1,646	28.1	39	0.341 J	6.61 J	9.56	4.79	0.765 J	0.843 J
RDX	mg/kg	838	0.5 U	0.495 U	0.099 UJ	0.0992 UJ	0.193 U	0.0983 U	1.28 J	0.469 J
PAHs:										
Benzo(a)anthracene	ug/kg	105,000	323 J	1,110 J	81.4 UJ	88.9 J	7,570 J	8,660 J	80.2 UJ	81.4 UJ
Benzo(a)pyrene	ug/kg	10,000	249 J	854 J	81.4 UJ	81.7 UJ	5,880 J	6,620 J	80.2 UJ	81.4 UJ
Benzo(b)fluoranthene	ug/kg	105,000	200 J	618 J	81.4 UJ	81.7 UJ	4,600 J	6,240 J	80.2 UJ	81.4 UJ
Dibenz(a,h)anthracene	ug/kg	10,000	80.7 UJ	405 UJ	81.4 UJ	81.7 UJ	847 J	944 J	80.2 UJ	81.4 UJ
PCBs:										
Aroclor-1016	ug/kg	NA	8.32 U	8.23 U	8.19 UJ	8.09 UJ	8.25 U	8.11 U	8.28 U	8.26 U
Aroclor-1221	ug/kg	NA	8.32 U	8.23 U	8.19 UJ	8.09 UJ	8.25 U	8.11 U	8.28 U	8.26 U
Aroclor-1232	ug/kg	NA	8.32 U	8.23 U	8.19 UJ	8.09 UJ	8.25 U	8.11 U	8.28 U	8.26 U
Aroclor-1242	ug/kg	NA	8.32 U	8.23 U	8.19 UJ	8.09 UJ	8.25 U	8.11 U	8.28 U	8.26 U
Aroclor-1248	ug/kg	NA	8.32 U	8.23 U	8.19 UJ	8.09 UJ	8.25 U	8.11 U	8.28 U	8.26 U
Aroclor-1254	ug/kg	35,000	79.1	632	23.1 J	104 J	113	91.8	27.9 J	14.7 J
Aroclor-1260	ug/kg	NA	8.32 UJ	8.23 UJ	8.19 UJ	8.09 UJ	8.25 UJ	8.11 UJ	8.28 UJ	8.26 UJ
Metals:										
Aluminum	mg/kg	34,942	6,140	4,780	11,800	11,500	5,380	5,300	7,900	7,870
Antimony	mg/kg	2,458	0.304	0.442	0.346	0.36	0.358	0.383	0.288	0.281
Arsenic	mg/kg	31	12.3	11.6	13.0 J	12.0 J	17.1	13.4	11.9	12.0
Barium	mg/kg	3,483	37.6	38.5	60.1	81.1	36.4	36.6	64.0	63.1
Cadmium	mg/kg	109	0.175 U	0.0361 U	0.306	0.278	0.0361 U	0.175 U	0.19 U	0.17 U
Chromium, Trivalent ⁽²⁾	mg/kg	120,000	16.2	12.7	19.0	17.6	15.3	14.1	14.9	15.1
Chromium, Hexavalent	mg/kg	16	0.0496 U	0.0489 U	0.0506 U	0.0505 U	0.0483 U	0.0492 U	0.0491 U	0.0503 U
Lead	mg/kg	1,995	18.7	31.9	13.4 J	15.6 J	24.7	19.8	27.7	16.7
Manganese	mg/kg	1,800	554	379	375	413	505	447	784	779

U = The analyte was analyzed for, but was not detected. Value shown is the sample reporting limit.

UJ = The analyte was not detected at or above the sample reporting limit. However, the reporting limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

J = Estimated concentration because the result was below the sample reporting limit or quality control criteria were not met.

Bold = Detected concentration

(1) Interim Record of Decision Cleanup Goal for a National Guard Trainee (Shaw 2007).

(2) Concentrations for trivalent chromium were calculated by subtracting the hexavalent chromium result from the total chromium result. The value shown in the "CUG" column is the May 2010 USEPA Regional Screening Level (RSL).

**Table 4-6
Analytical Data Summary and Comparison to Cleanup Goals
Ravenna Army Ammunition Plant
Ravenna, Ohio**

Location			EB-25, Base	EB-25, Walls	EB-4AWN / Aux, Base	EB-4AWN / Aux, Walls	EB-4A /4AWN, Base (South)	EB-4A /4AWN, Walls (South)	EB-4 / 4WN, Base (North)	EB-4 / 4WN, Walls (North)
Sample ID			LL3SS-294M- 2011-SO	LL3SS-294M- 2012-SO	LL3SS-295M- 2013-SO	LL3SS-295M- 2014-SO	LL3SS-296M- 2015-SO	LL3SS-296M- 2016-SO	LL3SS-297M- 2017-SO	LL3SS-297M- 2018-SO
Date Collected			06/08/10 (Blind Dup)	06/08/10	06/10/10	06/10/10	06/14/10	06/14/10	06/16/10	06/16/10
Parameter	Units	CUG ⁽¹⁾								
Explosives:										
2,4,6-Trinitrotoluene	mg/kg	1,646	2.35 J	13.7	13.1	1,100	1.47 J	0.496 J	29.3	2.72
RDX	mg/kg	838	2.19 J	2.6	0.0995 U	0.288 J	0.0988 UJ	0.0994 UJ	0.985 U	0.101 U
PAHs:										
Benzo(a)anthracene	ug/kg	105,000	82.3 UJ	129 J	80.1 UJ	79.8 U	82.8 UJ	82.1 UJ	91 J	105 J
Benzo(a)pyrene	ug/kg	10,000	82.3 UJ	130 J	80.1 UJ	79.8 U	82.8 UJ	82.1 UJ	93 J	105 J
Benzo(b)fluoranthene	ug/kg	105,000	82.3 UJ	108 J	80.1 UJ	79.8 U	82.8 UJ	82.1 UJ	88.5 J	98.5 J
Dibenz(a,h)anthracene	ug/kg	10,000	82.3 UJ	81.3 U	80.1 UJ	79.8 U	82.8 UJ	82.1 UJ	85.2 J	80.2 UJ
PCBs:										
Aroclor-1016	ug/kg	NA	8.37 U	8.28 U	8.15 U	8.32 U	8.23 UJ	8.07 UJ	8.15 U	8.28 U
Aroclor-1221	ug/kg	NA	8.37 U	8.28 U	8.15 U	8.32 U	8.23 UJ	8.07 UJ	8.15 U	8.28 U
Aroclor-1232	ug/kg	NA	8.37 U	8.28 U	8.15 U	8.32 U	8.23 UJ	8.07 UJ	8.15 U	8.28 U
Aroclor-1242	ug/kg	NA	8.37 U	8.28 U	8.15 U	8.32 U	8.23 UJ	8.07 UJ	8.15 U	8.28 U
Aroclor-1248	ug/kg	NA	8.37 U	8.28 U	8.15 U	8.32 U	8.23 UJ	8.07 UJ	8.15 U	8.28 U
Aroclor-1254	ug/kg	35,000	76 J	189	339	70.1	24.7 J	47.3 J	2,900	962
Aroclor-1260	ug/kg	NA	8.37 UJ	8.28 UJ	8.15 UJ	8.32 UJ	8.23 UJ	8.07 UJ	8.15 U	8.28 U
Metals:										
Aluminum	mg/kg	34,942	8,190	6,540	9,990	9,920	9,430	11,400	6,120	8,300
Antimony	mg/kg	2,458	0.304	0.401	0.464	1.2	0.354	0.322	1.11	0.654
Arsenic	mg/kg	31	10.7	11.2	14.6	12.7	14.5 J	13.9 J	10.5 J	11.8 J
Barium	mg/kg	3,483	64.7	52.0	61.9	57.1	51.7	68.3	39.1	49.5
Cadmium	mg/kg	109	0.191 U	0.0351 U	0.0345 U	0.379 U	0.0531 J	0.0645 J	0.79	0.219
Chromium, Trivalent ⁽²⁾	mg/kg	120,000	14.4	14.3	17.6	17.0	15.6	17.4	17.3	16.5
Chromium, Hexavalent	mg/kg	16	0.0499 U	0.0503 U	0.0499 U	0.0483 U	0.0507 U	0.0497 U	0.0964 U	0.0491 U
Lead	mg/kg	1,995	16.3	45.9	31.2	18.9	15.7 J	16.4 J	125 J	19.2 J
Manganese	mg/kg	1,800	805	515	536	318	359	370	407	467

U = The analyte was analyzed for, but was not detected. Value shown is the sample reporting limit.

UJ = The analyte was not detected at or above the sample reporting limit. However, the reporting limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

J = Estimated concentration because the result was below the sample reporting limit or quality control criteria were not met.

Bold = Detected concentration

(1) Interim Record of Decision Cleanup Goal for a National Guard Trainee (Shaw 2007).

(2) Concentrations for trivalent chromium were calculated by subtracting the hexavalent chromium result from the total chromium result. The value shown in the "CUG" column is the May 2010 USEPA Regional Screening Level (RSL).

onsite from the slab removal was sampled for waste characterization by the USACE on June 9, 2010.

A total of 3,858 tons of contaminated soil were removed and disposed at the Central Waste Landfill in Alliance, Ohio, between July 19 and 26, 2010. The Load Line 3 stockpile was removed by July 22, 2010, and the Load Line 2 and DB-802 stockpiles were removed by July 26, 2010. The soil stockpiles were loaded directly into off-road dump trucks for transport and disposal to the Central Waste Landfill. The stockpile areas were graded and stabilized by applying an OHARNG approved open area seed mix.

Truckloads and landfill weights for each stockpile are provided in Table 4-7. Waste manifests and weight tickets are included in Appendix H.

4.7 DECONTAMINATION

Decontamination of field equipment associated with either the field screening or final sampling was conducted in accordance with the FWSAP (SAIC, 2001). Equipment was decontaminated after completion of sampling activities at each MI or field screening location. A temporary decontamination area was constructed to facilitate decontamination of the push probes and other associated equipment and personnel. The location and layout of the field decontamination area was determined by the URS Technical Project Manager and the Site Safety and Health Officer. An additional decontamination area was located in Building 1036 and was used to decontaminate soil sampling equipment.

Excavation and transportation equipment were decontaminated in a designated area at each load line adjacent to the excavation area. The decontamination consisted of a dry scrape with collection of the scrapings and a steam cleaner washing of the portions of the equipment directly exposed to the contaminated soils. Decontamination fluids were collected for disposal with the liquid Investigation-Derived Waste (IDW).

4.8 SITE RESTORATION

Following soil removal activities, URS restored the seven excavated areas and approximately 2,487 cubic yards of adjoining areas with approved clean backfill from Patrick Excavating. Approximately 4,869 tons of soil was backfilled into the excavations. The areas were restored to original grade and were stabilized July 28, 2010, with permanent open area seed from Ohio Prairie Nursery.

Only noninvasive species were used for soil stabilization efforts and the type of seeding used for the various areas was in accordance with the requirements in the URS Work Plan for this project and met Ohio National Guard specifications. For nonvegetative cover, URS placed straw in unprotected areas. Structural soil stabilization options included land grading to provide erosion and runoff control.

Table 4-7
Soil Disposal Summary for Load Lines 2 and 3 (RVAAP-09 and -10)
Ravenna Army Ammunition Plant
Ravenna, Ohio

Load No.	Disposal Date	Time In	Time out	Type of Waste	Source	Date of Generation	Transporter	Trailer No.	Disposal Facility	Manifest Document No.	Weight (Tons)
1	7/19/2010	702	907	Non Haz	LL3	6/4/2010	Acme	062	Central Waste	0001	18.6
2	7/19/2010	715	908	Non Haz	LL3	6/4/2010	Acme	934	Central Waste	0002	23.64
3	7/19/2010	830	909	Non Haz	LL3	6/4/2010	Acme	973	Central Waste	0003	16.2
4	7/19/2010	830	915	Non Haz	LL3	6/4/2010	Acme	981	Central Waste	0004	20.26
5	7/19/2010	1050	1102	Non Haz	LL3	6/4/2010	Acme	062	Central Waste	0005	26.36
6	7/19/2010	1050	1110	Non Haz	LL3	6/4/2010	Acme	934	Central Waste	0006	21.19
7	7/19/2010	1050	1115	Non Haz	LL3	6/4/2010	Acme	973	Central Waste	0007	23.52
8	7/19/2010	1050	1120	Non Haz	LL3	6/4/2010	Acme	003	Central Waste	0008	26.17
9	7/19/2010	1112	1125	Non Haz	LL3	6/4/2010	Acme	072	Central Waste	0009	26.63
10	7/19/2010	1116	1133	Non Haz	LL3	6/4/2010	Acme	076	Central Waste	0010	24.7
11	7/19/2010	1118	1150	Non Haz	LL3	6/4/2010	Acme	982	Central Waste	0011	24.6
12	7/19/2010	1148	1204	Non Haz	LL3	6/4/2010	Acme	981	Central Waste	0012	27.16
13	7/19/2010	1230	1251	Non Haz	LL3	6/4/2010	Acme	062	Central Waste	0013	24.51
14	7/19/2010	1235	1256	Non Haz	LL3	6/4/2010	Acme	934	Central Waste	0014	20.49
15	7/19/2010	1235	1301	Non Haz	LL3	6/4/2010	Acme	973	Central Waste	0015	25.78
16	7/19/2010	1302	1326	Non Haz	LL3	6/4/2010	Acme	003	Central Waste	0016	24.07
17	7/19/2010	1302	1326	Non Haz	LL3	6/4/2010	Acme	072	Central Waste	0017	28.28
18	7/19/2010	1325	1336	Non Haz	LL3	6/4/2010	Acme	076	Central Waste	0018	26.22
19	7/19/2010	1342	1354	Non Haz	LL3	6/4/2010	Acme	982	Central Waste	0019	25.58
20	7/19/2010	1349	1410	Non Haz	LL3	6/4/2010	Acme	981	Central Waste	0020	26.26
21	7/19/2010	1424	1445	Non Haz	LL3	6/4/2010	Acme	062	Central Waste	0021	24.75
22	7/20/2010	700	715	Non Haz	LL3	6/4/2010	Acme	062	Central Waste	0022	24.26
23	7/20/2010	715	723	Non Haz	LL3	6/4/2010	Acme	934	Central Waste	0023	23.68
24	7/20/2010	855	900	Non Haz	LL3	6/4/2010	Acme	062	Central Waste	0024	23.17
25	7/20/2010	918	927	Non Haz	LL3	6/4/2010	Acme	934	Central Waste	0025	22.57
26	7/20/2010	918	934	Non Haz	LL3	6/4/2010	Acme	031	Central Waste	0026	22.86
27	7/20/2010	918	945	Non Haz	LL3	6/4/2010	Acme	981	Central Waste	0027	23.92
28	7/20/2010	934	957	Non Haz	LL3	6/4/2010	Acme	951	Central Waste	0028	23.07
29	7/20/2010	1050	1057	Non Haz	LL3	6/4/2010	Acme	062	Central Waste	0029	22.53
30	7/20/2010	1050	1104	Non Haz	LL3	6/4/2010	Patrick	225	Central Waste	0030	22.14
31	7/20/2010	1050	1110	Non Haz	LL3	6/4/2010	Patrick	223	Central Waste	0031	21.64
32	7/20/2010	1050	1115	Non Haz	LL3	6/4/2010	Patrick	234	Central Waste	0032	19.95
33	7/20/2010	1050	1120	Non Haz	LL3	6/4/2010	Patrick	238	Central Waste	0033	19.26
34	7/20/2010	1110	1125	Non Haz	LL3	6/4/2010	Acme	934	Central Waste	0034	22.43
35	7/20/2010	1148	1157	Non Haz	LL3	6/4/2010	Acme	031	Central Waste	0035	25.58

Table 4-7, cont'd

Load No.	Disposal Date	Time In	Time out	Type of Waste	Source	Date of Generation	Transporter	Trailer No.	Disposal Facility	Manifest Document No.	Weight (Tons)
36	7/20/2010	1155	1208	Non Haz	LL3	6/4/2010	Acme	951	Central Waste	0036	32.39
37	7/20/2010	1233	1239	Non Haz	LL3	6/4/2010	Acme	062	Central Waste	0037	22.01
38	7/20/2010	1238	1245	Non Haz	LL3	6/4/2010	Patrick	225	Central Waste	0038	23.78
39	7/20/2010	1254	1300	Non Haz	LL3	6/4/2010	Patrick	223	Central Waste	0039	20.97
40	7/20/2010	1300	1304	Non Haz	LL3	6/4/2010	Patrick	234	Central Waste	0040	19.96
41	7/20/2010	1320	1325	Non Haz	LL3	6/4/2010	Patrick	238	Central Waste	0041	19.78
42	7/20/2010	1320	1331	Non Haz	LL3	6/4/2010	Acme	934	Central Waste	0042	22.06
43	7/20/2010	1340	1251	Non Haz	LL3	6/4/2010	Acme	951	Central Waste	0043	30.61
44	7/20/2010	1354	1402	Non Haz	LL3	6/4/2010	Acme	031	Central Waste	0044	28.35
45	7/20/2010	1355	1411	Non Haz	LL3	6/4/2010	Acme	981	Central Waste	0045	26.76
46	7/20/2010	1411	1421	Non Haz	LL3	6/4/2010	Acme	062	Central Waste	0046	24.42
47	7/20/2010	1411	1427	Non Haz	LL3	6/4/2010	Patrick	225	Central Waste	0047	23.32
48	7/21/2010	705	718	Non Haz	LL3	6/4/2010	Patrick	222	Central Waste	0048	20.81
49	7/21/2010	705	726	Non Haz	LL3	6/4/2010	Acme	934	Central Waste	0049	22.81
50	7/21/2010	705	732	Non Haz	LL3	6/4/2010	Patrick	223	Central Waste	0050	20.62
51	7/21/2010	705	738	Non Haz	LL3	6/4/2010	Patrick	225	Central Waste	0051	24.08
52	7/21/2010	705	745	Non Haz	LL3	6/4/2010	Patrick	150	Central Waste	0052	21.51
53	7/21/2010	705	755	Non Haz	LL3	6/4/2010	JMW	27	Central Waste	0053	22.42
54	7/21/2010	705	802	Non Haz	LL3	6/4/2010	Patrick	234	Central Waste	0054	16.97
55	7/21/2010	705	808	Non Haz	LL3	6/4/2010	JMW	58	Central Waste	0055	18.65
56	7/21/2010	705	818	Non Haz	LL3	6/4/2010	JMW	23	Central Waste	0056	21.31
57	7/21/2010	705	826	Non Haz	LL3	6/4/2010	JMW	14	Central Waste	0057	22.9
58	7/21/2010	705	835	Non Haz	LL3	6/4/2010	JMW	017	Central Waste	0058	27.96
59	7/21/2010	830	845	Non Haz	LL3	6/4/2010	Acme	072	Central Waste	0059	24.03
60	7/21/2010	830	902	Non Haz	LL3	6/4/2010	Acme	982	Central Waste	0060	22.95
61	7/21/2010	904	915	Non Haz	LL3	6/4/2010	Acme	031	Central Waste	0061	26.06
62	7/21/2010	904	923	Non Haz	LL3	6/4/2010	Patrick	225	Central Waste	0062	21
63	7/21/2010	908	930	Non Haz	LL3	6/4/2010	Patrick	222	Central Waste	0063	18.88
64	7/21/2010	908	940	Non Haz	LL3	6/4/2010	Acme	934	Central Waste	0064	21.19
65	7/21/2010	908	949	Non Haz	LL3	6/4/2010	Patrick	223	Central Waste	0065	25.39
66	7/21/2010	930	954	Non Haz	LL3	6/4/2010	Patrick	150	Central Waste	0066	21.41
67	7/21/2010	930	1004	Non Haz	LL3	6/4/2010	Patrick	234	Central Waste	0067	20.53
68	7/21/2010	930	1018	Non Haz	LL3	6/4/2010	JMW	027	Central Waste	0068	25.64
69	7/21/2010	948	1029	Non Haz	LL3	6/4/2010	JMW	058	Central Waste	0069	25.08
70	7/21/2010	1011	1045	Non Haz	LL3	6/4/2010	JMW	023	Central Waste	0070	20.84
71	7/21/2010	1019	1102	Non Haz	LL3	6/4/2010	JMW	014	Central Waste	0071	21.24
72	7/21/2010	1019	1113	Non Haz	LL3	6/4/2010	JMW	017	Central Waste	0072	21.32
73	7/21/2010	1025	1123	Non Haz	LL3	6/4/2010	Acme	072	Central Waste	0073	27.73

Table 4-7, cont'd

Load No.	Disposal Date	Time In	Time out	Type of Waste	Source	Date of Generation	Transporter	Trailer No.	Disposal Facility	Manifest Document No.	Weight (Tons)
74	7/21/2010	1025	1136	Non Haz	LL3	6/4/2010	Acme	982	Central Waste	0074	31.68
75	7/21/2010	1025	1148	Non Haz	LL3	6/4/2010	Acme	031	Central Waste	0075	25.84
76	7/21/2010	1040	1159	Non Haz	LL3	6/4/2010	Patrick	225	Central Waste	0076	23.56
77	7/21/2010	1040	1209	Non Haz	LL3	6/4/2010	Patrick	222	Central Waste	0077	27.33
78	7/21/2010	1040	1216	Non Haz	LL3	6/4/2010	Acme	934	Central Waste	0078	21.74
79	7/21/2010	1130	1224	Non Haz	LL3	6/4/2010	Patrick	223	Central Waste	0079	24.77
80	7/21/2010	1130	1303	Non Haz	LL3	6/4/2010	Patrick	150	Central Waste	0080	21.26
81	7/21/2010	1130	1315	Non Haz	LL3	6/4/2010	Patrick	234	Central Waste	0081	19.38
82	7/21/2010	1130	1327	Non Haz	LL3	6/4/2010	Acme	027	Central Waste	0082	27.6
83	7/21/2010	1228	1344	Non Haz	LL3	6/4/2010	JMW	058	Central Waste	0083	21.52
84	7/21/2010	1228	1400	Non Haz	LL3	6/4/2010	JMW	023	Central Waste	0084	18.53
85	7/21/2010	1245	1407	Non Haz	LL3	6/4/2010	JMW	014	Central Waste	0085	21.16
86	7/21/2010	1245	1422	Non Haz	LL3	6/4/2010	Acme	072	Central Waste	0086	31.16
87	7/21/2010	1245	1430	Non Haz	LL3	6/4/2010	Acme	982	Central Waste	0087	25.06
88	7/21/2010	1245	1440	Non Haz	LL3	6/4/2010	Acme	934	Central Waste	0088	23.1
89	7/22/2010	655	703	Non Haz	LL3	6/4/2010	Patrick	234	Central Waste	0089	19.53
90	7/22/2010	655	708	Non Haz	LL3	6/4/2010	Patrick	225	Central Waste	0090	24.31
91	7/22/2010	655	715	Non Haz	LL3	6/4/2010	Patrick	236	Central Waste	0091	19.72
92	7/22/2010	738	750	Non Haz	LL3	6/4/2010	JMW	058	Central Waste	0092	24.03
93	7/22/2010	738	800	Non Haz	LL3	6/4/2010	JMW	023	Central Waste	0093	22.56
94	7/22/2010	738	809	Non Haz	LL3	6/4/2010	JMW	014	Central Waste	0094	23.67
95	7/22/2010	841	851	Non Haz	LL3	6/4/2010	Patrick	234	Central Waste	0095	25.43
96	7/22/2010	852	900	Non Haz	LL3	6/4/2010	Patrick	225	Central Waste	0096	31.21
97	7/22/2010	852	906	Non Haz	LL3	6/4/2010	Patrick	236	Central Waste	0097	23.14
98	7/22/2010	927	940	Non Haz	LL3	6/4/2010	JMW	058	Central Waste	0098	23.13
99	7/22/2010	943	953	Non Haz	LL3	6/4/2010	JMW	023	Central Waste	0099	22.51
100	7/22/2010	950	1008	Non Haz	LL3	6/4/2010	JMW	014	Central Waste	0100	23.34
101	7/22/2010	1018	1024	Non Haz	LL3	6/4/2010	Patrick	234	Central Waste	0101	22.46
102	7/22/2010	1029	1037	Non Haz	LL3	6/4/2010	Patrick	225	Central Waste	0102	23.64
103	7/22/2010	1035	1044	Non Haz	LL3	6/4/2010	Patrick	236	Central Waste	0103	20.53
104	7/22/2010	1140	1155	Non Haz	LL3	6/4/2010	JMW	023	Central Waste	0104	25.19
105	7/22/2010	1145	1211	Non Haz	LL3	6/4/2010	JMW	014	Central Waste	0105	18.86
106	7/22/2010	1245	1300	Non Haz	DB802	--	Patrick	234	Central Waste	0106	21.12
107	7/22/2010	1310	1320	Non Haz	LL2	6/21/2010	Patrick	225	Central Waste	0107	29.09
108	7/22/2010	1310	1330	Non Haz	LL2	6/21/2010	Patrick	236	Central Waste	0108	21.14
109	7/22/2010	1344	1353	Non Haz	LL2	6/21/2010	JMW	023	Central Waste	0109	19.57
110	7/22/2010	1409	1421	Non Haz	LL2	6/21/2010	JMW	014	Central Waste	0110	24.65
111	7/23/2010	645	700	Non Haz	LL2	6/21/2010	Patrick	236	Central Waste	0111	23.44

Table 4-7, cont'd

Load No.	Disposal Date	Time In	Time out	Type of Waste	Source	Date of Generation	Transporter	Trailer No.	Disposal Facility	Manifest Document No.	Weight (Tons)
112	7/23/2010	645	710	Non Haz	LL2	6/21/2010	Patrick	225	Central Waste	0112	26.57
113	7/23/2010	645	718	Non Haz	LL2	6/21/2010	Patrick	234	Central Waste	0113	22.73
114	7/23/2010	645	725	Non Haz	LL2	6/21/2010	Patrick	233	Central Waste	0114	19.86
115	7/23/2010	740	748	Non Haz	LL2	6/21/2010	JMW	023	Central Waste	0115	25.41
116	7/23/2010	740	755	Non Haz	LL2	6/21/2010	JMW	058	Central Waste	0116	26.85
117	7/23/2010	740	803	Non Haz	LL2	6/21/2010	JMW	030	Central Waste	0117	26.89
118	7/23/2010	740	810	Non Haz	LL2	6/21/2010	JMW	014	Central Waste	0118	23.57
119	7/23/2010	844	851	Non Haz	LL2	6/21/2010	Patrick	236	Central Waste	0119	23.59
120	7/23/2010	847	857	Non Haz	LL2	6/21/2010	Patrick	225	Central Waste	0120	28.15
121	7/23/2010	903	909	Non Haz	LL2	6/21/2010	Patrick	234	Central Waste	0121	25.09
122	7/23/2010	906	915	Non Haz	LL2	6/21/2010	Patrick	233	Central Waste	0122	24.2
123	7/23/2010	937	946	Non Haz	LL2	6/21/2010	JMW	023	Central Waste	0123	19.53
124	7/23/2010	950	958	Non Haz	LL2	6/21/2010	JMW	058	Central Waste	0124	24.27
125	7/23/2010	958	1005	Non Haz	LL2	6/21/2010	JMW	014	Central Waste	0125	23.76
126	7/23/2010	958	1012	Non Haz	LL2	6/21/2010	JMW	030	Central Waste	0126	21.89
127	7/23/2010	1026	1032	Non Haz	LL2	6/21/2010	Patrick	236	Central Waste	0127	22.76
128	7/23/2010	1029	1038	Non Haz	LL2	6/21/2010	Patrick	225	Central Waste	0128	26.16
129	7/23/2010	1043	1048	Non Haz	LL2	6/21/2010	Patrick	234	Central Waste	0129	23.87
130	7/23/2010	1053	1100	Non Haz	LL2	6/21/2010	Patrick	233	Central Waste	0130	22.57
131	7/23/2010	1223	1230	Non Haz	LL2	6/21/2010	JMW	023	Central Waste	0131	20.6
132	7/23/2010	1223	1237	Non Haz	LL2	6/21/2010	JMW	058	Central Waste	0132	24.18
133	7/23/2010	1227	1243	Non Haz	LL2	6/21/2010	JMW	014	Central Waste	0133	23.37
134	7/23/2010	1230	1300	Non Haz	LL2	6/21/2010	JMW	030	Central Waste	0134	24.1
135	7/23/2010	1210	1214	Non Haz	LL2	6/21/2010	Patrick	236	Central Waste	0135	20.8
136	7/23/2010	1210	1221	Non Haz	LL2	6/21/2010	Patrick	225	Central Waste	0136	25.88
137	7/23/2010	1229	1248	Non Haz	LL2	6/21/2010	Patrick	234	Central Waste	0137	20.08
138	7/23/2010	1244	1254	Non Haz	LL2	6/21/2010	Patrick	233	Central Waste	0138	19.13
139	7/23/2010	1354	1401	Non Haz	LL2	6/21/2010	Patrick	236	Central Waste	0139	22.05
140	7/23/2010	1356	1402	Non Haz	LL2	6/21/2010	Patrick	225	Central Waste	0140	24.55
141	7/23/2010	1420	1427	Non Haz	LL2	6/21/2010	JMW	023	Central Waste	0141	21.68
142	7/23/2010	1420	1432	Non Haz	LL2	6/21/2010	JMW	058	Central Waste	0142	22.97
143	7/23/2010	1420	1439	Non Haz	LL2	6/21/2010	JMW	014	Central Waste	0143	23.13
144	7/23/2010	1420	1445	Non Haz	LL2	6/21/2010	Patrick	234	Central Waste	0144	21.74
145	7/26/2010	645	700	Non Haz	LL2	6/21/2010	Patrick	236	Central Waste	0145	21.31
146	7/26/2010	645	708	Non Haz	LL2	6/21/2010	Patrick	230	Central Waste	0146	23.71
147	7/26/2010	645	715	Non Haz	LL2	6/21/2010	Patrick	234	Central Waste	0147	21.19
148	7/26/2010	738	745	Non Haz	LL2	6/21/2010	Patrick	019	Central Waste	0148	26.32
149	7/26/2010	750	758	Non Haz	LL2	6/21/2010	JMW	058	Central Waste	0149	28.4

Table 4-7, cont'd

Load No.	Disposal Date	Time In	Time out	Type of Waste	Source	Date of Generation	Transporter	Trailer No.	Disposal Facility	Manifest Document No.	Weight (Tons)
150	7/26/2010	756	806	Non Haz	LL2	6/21/2010	JMW	067	Central Waste	0150	25.24
151	7/26/2010	800	813	Non Haz	LL2	6/21/2010	JMW	023	Central Waste	0151	23.02
152	7/26/2010	800	821	Non Haz	LL2	6/21/2010	JMW	014	Central Waste	0152	25.66
153	7/26/2010	900	907	Non Haz	LL2	6/21/2010	Patrick	234	Central Waste	0153	22.35
154	7/26/2010	900	915	Non Haz	LL2	6/21/2010	Patrick	230	Central Waste	0154	22.35
155	7/26/2010	915	921	Non Haz	LL2	6/21/2010	Patrick	236	Central Waste	0155	18.84
156	7/26/2010	941	947	Non Haz	LL2	6/21/2010	Patrick	019	Central Waste	0156	22.81
157	7/26/2010	1015	1026	Non Haz	LL2	6/21/2010	JMW	058	Central Waste	0157	25.11
158	7/26/2010	1015	1034	Non Haz	LL2	6/21/2010	JMW	023	Central Waste	0158	22.41
159	7/26/2010	1015	1045	Non Haz	LL2	6/21/2010	JMW	014	Central Waste	0159	25.91
160	7/26/2010	1046	1105	Non Haz	LL2	6/21/2010	JMW	067	Central Waste	0160	27.76
161	7/26/2010	1046	1055	Non Haz	LL2	6/21/2010	Patrick	234	Central Waste	0161	21.71
162	7/26/2010	1100	1114	Non Haz	LL2	6/21/2010	Patrick	230	Central Waste	0162	21.9
163	7/26/2010	1110	1122	Non Haz	LL2	6/21/2010	Patrick	236	Central Waste	0163	18.78
164	7/26/2010	1145	1156	Non Haz	LL2	6/21/2010	Patrick	019	Central Waste	0164	23.95
165	7/26/2010	1204	1227	Non Haz	LL2	6/21/2010	Patrick	236	Central Waste	0165	21.11

LL2 Stockpile Total	1379.71
LL3 Stockpile Total	2456.72
DB-802 Total	21.12
Total	3857.55

4.9 DEMOBILIZATION

Demobilization activities included inspection and repair of silt fences and soil berms surrounding the former excavation and stockpile areas. The construction equipment was taken off site and field equipment and supplies were decontaminated and stored in Building 1036. The decontamination station in Building 1036 was cleaned and disassembled. The floors in Building 1036 were also cleaned.

4.10 WASTE MANAGEMENT

4.10.1 Disposal of Surface Water

Water that accumulated in open excavations was removed by pumping and was stored in temporary water-tight storage tanks. Prior to excavations at Buildings DB-4 and EB-4A, surface water was pumped to tanks located at the building footprints. Two tanks were located at DB-4 and one tank was located at EB-4A. The tanks were temporarily stored near the footprints pending analysis and disposal. The EB-4A and DB-4 tanks were sampled for waste characterization on June 16 and June 29, 2010, respectively. Characterization data are located in Appendix B.

4.10.2 Disposal of Wastes

All IDW was segregated, handled, labeled, characterized, managed, and disposed in accordance with federal, state, and local rules, regulations, and laws, and Section 7.0 of the FWSAP. The waste was temporarily stored within Bldg. 1036 pending disposal.

The IDW was segregated by type of medium and was containerized as follows:

- Water used to decontaminate sampling equipment and personal protective equipment was containerized in DOT-approved, 55-gallon steel drums and staged at the temporary waste accumulation area pending sample and waste characterization analysis.
- Decontamination and extraction fluids including acid, methanol, and acetone were containerized in DOT-approved, 55-gallon steel drums and staged at the temporary waste accumulation area pending sample and waste characterization analysis.

All shipments of IDW off site were coordinated through the RVAAP Environmental Coordinator. Disposition was based on the results of the laboratory analyses for the bulk quantity in accordance with all federal, state and local rules, laws and regulations. Labeling of all IDW containers was in accordance with Section 7.2 of the FWSAP.

Disposal of waste, trash, and other materials off the project site was in accordance with all applicable federal, state, and local rules, regulations, and laws and Section 7.0 of the FWSAP.

4.11 PERFORMANCE STANDARDS

The analytical data collected during MI soil sampling efforts were evaluated by comparison to the soil CUGs listed in the IROD (Shaw, 2007), which were established based on a National Guard Trainee scenario for those chemicals considered SRCs for Load Lines 1 through 4. Table 4-6 lists the CUGs, as well as the concentrations of all analytes in the confirmation samples.

The MI samples were analyzed for both total chromium and hexavalent chromium. Hexavalent chromium was not detected in any samples; therefore, the total chromium result for each sample was considered representative of trivalent chromium. Since the IROD does not specify a CUG for trivalent chromium, the RSL for trivalent chromium (USEPA, 2010) was used for comparison purposes.

Table 4-6 shows that all MI sample chemical concentrations are below their corresponding CUGs.

4.12 EVENT CHRONOLOGY

The following is the chronology of events during the remediation activities at Load Lines 2 and 3.

Date	Event
May 26-June 3, 2010	LL3 silt fence installations
June 4, 2010	Excavation at LL3-EA-6 to 4-5' (140 CY) and backfilled
June 7, 2010	Excavation at LL3-EA-6A to 4' (360 CY), tank staged at EB-4A
June 8, 2010	Backfill EA-6A, excavation at EB-25 to 2-3' (94 CY), backfill EB-25
June 10, 2010	Standing water pumped from EB-4A to tank (16,000 gal), area south of EB-4A excavated
June 14, 2010	Excavation at EB-4A (two sections) to 4' (515 CY), backfill south section of EB-4A
June 15, 2010	Backfill north section of EB-4A, excavation at EB-4 (two sections) to 2-3' (495 CY), terracotta pipe release 1,000-2,000 gal pink water, backfill south section of EB-4.
June 16, 2010	Excavation at EB-4 north section to 4', backfill excavation. Stockpile and tank samples collected for waste characterization.
June 17, 2010	Additional backfilling at EB-4.
June 21, 2010	LL2 operations begin. Silt fence installations at DB-10 and DB-4. Soil stockpile pad constructed northeast of DB-4.

Date	Event
June 22, 2010	Excavation at DB-10 (90 CY) to 1-2' and backfilled. Earthen berm constructed at DB-4, dewatering at DB-4 (approx. 16,000 gal pumped into tank). DB-4 Excavation begins.
June 23, 2010	Continue dewatering DB-4 into second tank. Begin excavation of SW corner of DB-4.
June 24, 2010	Continue DB-4 excavation (791 CY). Excavation dewatered and backfilled. LL2 stockpile sampled for waste characterization.
June 28, 2010	Excavation areas seeded at LL2 and LL3. Heavy equipment decontaminated.
June 29, 2010	Sample LL2 tanks (2). Straw placed on seeded areas. Cleaned building 1036.
July 19-22, 2010	LL3 stockpile transported and disposed off site.
July 23-26, 2010	LL2 and DB-802 stockpiles transported and disposed off site.

4.13 INSPECTIONS

Daily inspections were performed in active work areas to ensure proper performance of run-on and run-off controls. A weekly minimum and as-needed inspections were made of inactive, nonvegetated, disturbed areas to ensure that the berms and sediment fences were functioning properly. Inspections were made within 24-hours after any storm event greater than ½ inch of rain per 24-hour period and on a daily basis during extensive periods of rainfall. The following inspection and maintenance practices were used to maintain E&S controls:

- Silt fences were inspected for depth of sediment, for tears, to see if fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- The sediment basin was inspected for depth of sediment and built up sediment will be removed when it reaches 1 foot in depth.
- Temporary and permanent seeding was inspected for bare spots, washouts, and healthy growth.
- The stabilized construction entrance was inspected for sediment tracked on the road, for clean gravel, and to make sure the culvert beneath the entrance is working, and that all traffic uses the stabilized entrance when leaving the site.
- Paved streets along the load line haul route were inspected and maintained as required to remove any mud, dirt, rock or other materials originating from the work areas.

Maintenance and inspection forms used are included in Appendix I. The inspection report was made after each inspection. A copy of the report form was completed by the field superintendent

or his qualified designee. Completed forms were maintained on site during the entire construction effort.

A final inspection was conducted on August 4, 2010. The seven remediated excavation areas and former stockpile locations were inspected to determine if all Work Plan requirements had been met. The inspection was conducted by the RVAAP Environmental Coordinator and representatives from Ohio EPA and USACE. The URS Field Team leaders and Project Manager also participated. No outstanding or unresolved issues were observed except that vegetation was not yet fully established.

This section describes the tasks performed at Load Line 4. The type of tasks conducted by URS consisted of the off-site disposal of five soil stockpiles. The disposal activities were conducted in accordance with the approved Work Plan (URS, 2008 and 2009b).

5.1 PRE-MOBILIZATION AND MOBILIZATION ACTIVITIES

Prior to disposal activities, a series of pre-mobilization activities were undertaken to ensure that all applicable requirements were met. These included obtaining any necessary permits, notifications to the RVAAP Facility Manager, Ohio EPA, the operating contractor, PIKA and other stakeholders.

A visual survey of the stockpiles was conducted prior to any removal activities. Pre-construction tasks included establishing haul routes and sampling for waste characterization purposes. The locations of the five stockpiles were:

- At Building G-1, a pile of soil and a pile of broken concrete at the northwest end of the building;
- At Building G-1, two piles of soil at the southeast end of the building; and
- At Building G-3, one pile of soil at the east end of the building.

One 30-increment MI sample was collected at each of the five piles located at Buildings G-1 and G-3. These samples were analyzed as required by the disposal facility. The analytical data are included in Appendix B.

5.2 REMOVAL OF LOAD LINE 4 SOIL/DEBRIS PILES

The disposal of the five piles at Load Line 4 was arranged at an off-site facility, the Countywide Recycling and Disposal Facility in East Sparta, Ohio. The waste was profiled and manifested through the disposal facility and the RVAAP Caretaker Contractor Facility Manager. All manifests were signed by an RVAAP staff member, and a copy returned to the RVAAP Operating Contractor Site Manager.

On July 30 and 31, 2008, the materials were loaded into trucks in a designated area adjacent to the stockpiles. The designated areas contained adequate spill control measures to enable recovery of any spilled materials. The trucks were inspected prior to loading for vehicle safety and an appropriate cover system to prevent loss of materials during transport.

The materials were loaded onto the transport truck in a manner that distributed the load over the entire length of the truck bed. Special care was given to the stockpiled materials that were comprised of rock and concrete. These materials could have possibly damaged the truck bed if not loaded properly. When the loading was completed, the truck was inspected for any loose stockpile materials that may have inadvertently been spilled on the exterior of the vehicle. Any

identified materials were removed and placed with the remaining stockpile materials. The truck cover was deployed prior to departing the loading areas. Since the load out was not conducted in an area with contaminated soils/materials, the truck itself did not require any decontamination. A total of 501 tons of materials were removed from the Load Line 4 buildings. The stockpile removal documentation is included in Appendix J.

The five piles of soil/debris at Load Line 4 buildings were removed and disposed of in accordance with all applicable federal, state, and local rules, laws, and regulations, as well as any permit requirements for the receiving facility. The appropriate placards were displayed and the required profile and manifest accompanied the truck to the disposal facility.

The confirmatory MI sampling conducted at seven excavated building footprints at Load Lines 2 and 3 have confirmed that the excavated areas at Load Lines 2 and 3 have been successfully remediated. The MI sample concentrations for all chemicals with CUGs established in the IROD were below the CUGs. Therefore, the soils below the removed building slabs at Load Lines 2 and 3 are not a concern for human health based on the future land use of the load lines as a vehicle maneuver area for National Guard Training. The excavated and adjoining areas were restored to original grade and were stabilized with permanent open area seed.

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- Shaw. 2004a. Shaw Environmental, Inc. Final Phase II Remedial Investigation Report for Load Line 2 at the Ravenna Army Ammunition Plant, Ravenna, Ohio. July 2004.
- Shaw. 2004b. Shaw Environmental, Inc. Final Phase II Remedial Investigation Report for Load Line 3 at the Ravenna Army Ammunition Plant, Ravenna, Ohio. July 2004.
- Shaw 2004c. Shaw Environmental, Inc. Final Phase II Remedial Investigation Report for Load Line 4 at the Ravenna Army Ammunition Plant, Ravenna, Ohio. July 2004.
- Shaw. 2007. Shaw E&I. Interim Record of Decision for the Remediation of Soils at Load Lines 1 through 4 at the Ravenna Army Ammunition Plant, Ravenna, Ohio. January 2007.
- URS. 2008. URS Group, Inc. Final of the Work Plan for the Sampling of Soils Below Floor Slabs at LLS-2,3,4 and Excavation and Transportation of Contaminated Soils to Load Line 4 (Buildings G-1, G-1A, and G-3). Prepared for the U.S. Army Corps of Engineers, Louisville District. Final. May 29, 2008.
- URS. 2009a. URS Group, Inc. Final Sampling and Screening Analysis of Soils Below Floor Slabs at RVAAP-09 Load Line 2, RVAAP-10 Load Line 3, and RVAAP-11 Load Line 4. Prepared for the U.S. Army Corps of Engineers, Louisville District. Final. July 15, 2009.
- URS. 2009b. URS Group, Inc. Final Work Plan Addendum #1 for the Sampling of Soils Below Floor Slabs and Remediation at RVAAP-08 Load Line 1 and Other Building Locations. Prepared for the U.S. Army Corps of Engineers, Louisville District. Final. August 3, 2009.
- URS. 2009c. URS Group, Inc. Final Multi-Increment Sampling and Analysis of Soils Below Floor Slabs at RVAAP-09 Load Line 2, RVAAP-10 Load Line 3, and RVAAP-11 Load Line 4. Prepared for the U.S. Army Corps of Engineers, Louisville District. Final. December 4, 2009.
- URS. 2010. Storm Water Pollution Prevention Plan for the Remediation of Sub-Slab Soils at Load Line 1 (RVAAP-08), Load Line 2 (RVAAP-09), and Load Line 3 (RVAAP-10). March 2010.
- US Army. 2008. Letter from Thomas E. Lederle (BRACD) to Bonnie Buthker (Ohio EPA). January 7, 2008.

USACE. 2002. United States Army Corps of Engineers. Louisville Chemistry Guideline, Version 5. Prepared by the Environmental Engineering Branch, Louisville District. June 2002.

USEPA. 2010. United States Environmental Protection Agency. Regional Screening Levels for Chemical Contaminants at Superfund Sites. Accessed July 2010. Available at: <http://www.epa.gov/region09/superfund/prg/rsl-table.html>. Most recent update, May 2010.

K:\Projects\R\Ravenna AAP\13812319\DOCs\Reports\Remediation_LL2,3,4\Remediation Report.doc

APPENDIX A
NOI Approval Letter



State of Ohio Environmental Protection Agency

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

P.O. Box 1049
Columbus, OH 43216-1049

URS GROUP INC
JO ANN BARTSCH
1375 EUCLID AVE
CLEVELAND OH 44115

3/24/2010

RE: Approval for coverage under Ohio EPA General Permit OHC000003
STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY.

Dear Applicant:

The Ohio Environmental Protection Agency has received a Notice of Intent (NOI) for coverage under the above referenced general permit for:

Facility Name: RAVENNA ARMY AMMUNITION PLANT LOAD LINES 1,2,3
Facility Street / Location: 8451 SR 5
County: PORTAGE, TRUMBULL
City(ies) and Township(s): RAVENNA ;
Ohio EPA Facility Permit Number: 3GC04849*AG

This site/facility is approved for coverage under the above referenced Ohio EPA construction general permit (CGP). Please use your Ohio EPA facility permit number in all future correspondences. Please familiarize yourself with your permit. The permit contains requirements and prohibitions with which you must comply. Coverage remains in effect until a renewal general permit is issued and Ohio EPA has contacted you in writing instructing you to request continuing permit coverage.

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.

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 Revised Code 6111 and potentially subjects you to enforcement and civil penalties.

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

Ohio EPA is an Equal Opportunity Employer.



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

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

Sincerely,



Chris Korleski
Director

CC: D BOGOEVSKI

APPENDIX B

Backfill Source and Waste Characterization Data

APPENDIX B

Table of Contents

B-1	B-1 Summary of Detected Chemicals - Backfill Soil
B-2	B-2 Summary of Detected Chemicals - LL2 and LL3 Stockpile Soil
B-3	B-3 Summary of Detected Chemicals - DB-802 Stockpile Soil
B-4	Table B-4 Summary of Detected Chemicals - DB-4 and EB-4A Water Samples
B-5	Table B-5 Summary of Detected Chemicals - LL4 Stockpile Soil

Table B-1
Summary of Detected Chemicals - Backfill Soil
Ravenna Army Ammunition Plant
Ravenna, Ohio

Analyte	Units	Cleanup Goal ⁽¹⁾	BF001 ⁽²⁾ 03/10/2010	BF002 ⁽²⁾ 03/10/2010
<u>Volatile Organics:</u>				
Acetone	ug/kg	6,100,000	5.23 J	6.67 U
Methylene chloride	ug/kg	11,000	3.01 J	4.09 J
<u>Pesticides:</u>				
4,4'-DDE	ug/kg	1,400	0.312 U	1.76
4,4'-DDT	ug/kg	1,700	0.312 U	0.744 J
Dieldrin	ug/kg	30	0.312 U	11
<u>Propellants:</u>				
Nitrocellulose	mg/kg	NA	2.47 U	3.56 J
<u>Metals:</u>				
Aluminum	mg/kg	17,700	2,990	9,450
Antimony	mg/kg	175	0.236	0.348
Arsenic	mg/kg	15.4	8.87	8.61
Barium	mg/kg	351	133	65.7
Beryllium	mg/kg	16	0.187	0.48
Cadmium	mg/kg	10.9	0.825	0.848
Calcium	mg/kg	NA	871	1,510
Chromium	mg/kg	12,000	25.8	20.3
Cobalt	mg/kg	10.4	4.9	5.4
Copper	mg/kg	25,368	10.9	12.3
Iron	mg/kg	184,370	12,300	18,500
Lead	mg/kg	400	8.27	19.9
Magnesium	mg/kg	NA	1,010	1,630
Manganese	mg/kg	1,450	1,950	574
Mercury	mg/kg	172	0.0133 J	0.0490 J
Nickel	mg/kg	12,639	13.5	13.9
Potassium	mg/kg	NA	334	623
Selenium	mg/kg	39	0.161 J	0.503
Sodium	mg/kg	NA	17.1 J	31.1
Thallium	mg/kg	47.7	0.125	0.16
Vanadium	mg/kg	2,304	7.61	18.4
Zinc	mg/kg	187,269	42.5	52.9

NA= CUG not available nor needed for this chemical.

U = The analyte was analyzed for, but was not detected. Value shown is the sample reporting limit.

J = Estimated concentration because the result was below the sample reporting limit or quality control criteria were not met.

(1) Cleanup Goals from Table 4-2 of Load Line 1 Short Report (URS, 2010). Cleanup Goal for acetone is USEPA RSL, based on HQ of 0.1, residential exposure.

(2) Sample BF001 was collected from Route 5 Sand and Gravel; Sample BF002 was collected from Patrick Excavating.

 Indicates analyte and sample where the Cleanup Goal is exceeded.

Table B-2
Summary of Detected Chemicals - LL2 and LL3 Stockpile Soil
Ravenna Army Ammunition Plant
Ravenna, Ohio

Analyte	Units	LL2 Stockpile 06/24/2010	LL3 Stockpile 06/16/2010
PCBs:			
Aroclor 1254	µg/kg	98.1	753 J
Explosives:			
2,4,6-Trinitrotoluene	mg/kg	50.9	20.5
2-Amino-4,6-dinitrotoluene	mg/kg	0.80	1.15
4-Amino-2,6-dinitrotoluene	mg/kg	0.94	2.19
TCLP SVOCs:			
<i>None Detected</i>			
TCLP Metals:			
Barium	mg/L	0.563	0.347
Cadmium	mg/L	0.0067	0.0060
Other Characteristics:			
Corrosivity (pH, Solid)	S.U.	9.67	8.72
Ignitability (Flashpoint)	Deg F	> 77.0	> 76.0

U = The analyte was analyzed for, but was not detected. Value shown is the sample reporting limit.

J = Estimated concentration because the result was below the sample reporting limit or quality control criteria were not met.

Table B-3
Summary of Detected Chemicals - DB-802 Stockpile Soil
Ravenna Army Ammunition Plant
Ravenna, Ohio

Analyte	Units	GREEN SOIL DB	RED SOIL
		802 06/09/2010	DB-802 06/09/2010
PCBs:			
Aroclor-1254	ug/kg	111 J	577 J
Explosives:			
2,4,6-Trinitrotoluene	mg/kg	0.181 J	0.299
2,4-Dinitrotoluene	mg/kg	0.0991 U	0.362
Metals:			
Aluminum	mg/kg	3020	1880
Antimony	mg/kg	1.9	30.2
Arsenic	mg/kg	11.5	70.4
Barium	mg/kg	54.1	354
Beryllium	mg/kg	0.025	0.046 U
Calcium	mg/kg	612	2590
Chromium	mg/kg	9750	5200
Cobalt	mg/kg	0.951 U	4.43
Copper	mg/kg	65.9	645
Iron	mg/kg	40700	75600
Lead	mg/kg	706	5430
Magnesium	mg/kg	512	484
Manganese	mg/kg	38.6	57.5
Mercury	mg/kg	0.0266 J	27.6
Nickel	mg/kg	5.95	89.7
Potassium	mg/kg	390	1470
Selenium	mg/kg	1.18	3.52
Silver	mg/kg	0.417	9.75
Sodium	mg/kg	82	1000
Thallium	mg/kg	0.151	0.672
Vanadium	mg/kg	6.24	1.24 J
Zinc	mg/kg	15.8	112
Chromium, Hexavalent	mg/kg	0.11	0.0503 U

Analyte	Units	STOCKPILE
		DB-802 06/09/2010
PCBs:		
Aroclor-1254	ug/kg	19.5 J
TCLP VOCs:		
<i>None Detected</i>		
TCLP SVOCs:		
<i>None Detected</i>		
TCLP Metals:		
Barium	mg/L	0.426
Chromium	mg/L	0.366
Lead	mg/L	0.507 J

U = The analyte was analyzed for, but was not detected. Value shown is the sample reporting limit.

J = Estimated concentration because the result was below the sample reporting limit or quality control criteria were not met.

Table B-4
Summary of Detected Chemicals - DB-4 and EB-4A Water Samples
Ravenna Army Ammunition Plant
Ravenna, Ohio

Analyte	Units	DB4 WATER 1 06/29/2010	DB4 WATER 2 06/29/2010	EB4A-WATER 06/16/2010
<u>Explosives:</u>				
1,3,5-Trinitrobenzene	ug/L	0.735 U	8.87	0.926 U
1,3-Dinitrobenzene	ug/L	0.735 U	1.24 J	0.926 U
2,4,6-Trinitrotoluene	ug/L	0.735 U	50.7	0.926 U
2,4-Dinitrotoluene	ug/L	0.735 U	4.23	0.926 U
2-Amino-4,6-dinitrotoluene	ug/L	5.53	85.8	0.926 U
4-Amino-2,6-dinitrotoluene	ug/L	69.9	297	2.4 J
HMX	ug/L	45.7	34.3	5.13
<u>Volatile Organics:</u>				
Acetone	ug/L	9.45 J	14.3	8.87 J
Ethyl benzene	ug/L	0.725 J	1.49	0.25 U
Xylenes, Total	ug/L	3.57	6.71	0.5 U
<u>Semivolatile Organics:</u>				
2,4-Dinitrotoluene	ug/L	2.5 U	13.8	2.5 U
2,6-Dinitrotoluene	ug/L	7.51 J	70.2	2.5 U
<u>PCBs:</u>				
Aroclor-1254	ug/L	0.25 U	0.25 U	0.441 J
<u>Metals:</u>				
Aluminum	mg/L	2.18	1.64	8.28
Antimony	mg/L	0.000814 J	0.00117	0.00546
Arsenic	mg/L	0.00548	0.00557	0.123
Barium	mg/L	0.0513	0.0181	0.0724
Beryllium	mg/L	0.0005 U	0.0005 U	0.000607 J
Calcium	mg/L	61.6	53.5	33.7
Chromium	mg/L	0.0025 U	0.0025 U	0.0107
Cobalt	mg/L	0.0025 U	0.0025 U	0.00354 J
Copper	mg/L	0.00466 J	0.00939	0.015
Iron	mg/L	1.07	0.0814 J	10.8
Lead	mg/L	0.00691	0.00063 J	0.0243
Magnesium	mg/L	0.25 U	0.25 U	3.33
Manganese	mg/L	0.0275	0.005 U	0.222
Nickel	mg/L	0.00854	0.00839	0.0143
Potassium	mg/L	23.9	13.9	7.04
Selenium	mg/L	0.0021	0.00246	0.00066 J
Sodium	mg/L	14.7	9.92	5.1
Thallium	mg/L	0.0001 U	0.0001 U	0.000148 J
Vanadium	mg/L	0.00679 J	0.00585 J	0.0142
Zinc	mg/L	0.0078 J	0.005 U	0.0435

U = The analyte was analyzed for, but was not detected. Value shown is the sample reporting limit.

J = Estimated concentration because the result was below the sample reporting limit or quality control criteria were not met.

Table B-5
Summary of Detected Chemicals - LL4 Stockpile Soil
Ravenna Army Ammunition Plant
Ravenna, Ohio

Analyte	Units	L08030356-01,-02 LL4-SPWC- 001-A-SO	L08030356-03,-04 LL4-SPWC- 002-B-SO	L08030356-05,-06 LL4-SPWC- 003-C-SO	L08030356-07,-08 LL4-SPWC- 004-D-SO	L08030356-09,-10 LL4-SPWC- 005-E-SO
<u>VOCs:</u>						
Acetone	ug/kg	85.9 J	42.5 B	14.5 B	11.4 B	123 J
Methylene chloride	ug/kg	1.13 JB	5.22 U	5.22 U	5.17 U	5.13 U
Toluene	ug/kg	0.896 JB	5.22 U	5.22 U	5.17 U	5.13 U
<u>SVOCs:</u>						
2-Methylnaphthalene	ug/kg	840 U	167 U	102 J	103 J	162 UJ
Acenaphthylene	ug/kg	840 U	104 J	165 U	166 U	162 UJ
Anthracene	ug/kg	840 U	167 U	92.0 J	166 U	162 UJ
Benzo(a)anthracene	ug/kg	652 J	321	360	295	95.5 J
Benzo(a)pyrene	ug/kg	558 J	326	313	287	95.4 J
Benzo(b)fluoranthene	ug/kg	515 J	327	336	308	98.1 J
Benzo(g,h,i)perylene	ug/kg	840 U	267	226	202	81.8 J
Benzo(k)fluoranthene	ug/kg	580 J	344	374	304	94.5 J
Chrysene	ug/kg	741 J	384	407	339	131 J
Fluoranthene	ug/kg	1380	678	744	556	231 J
Indeno(1,2,3-cd)pyrene	ug/kg	840 U	241	232	206	162 UJ
Phenanthrene	ug/kg	468 J	252	354	266	121 J
Pyrene	ug/kg	1080	658	601	468	261 J
<u>Pesticides:</u>						
beta-BHC	ug/kg	8.48 U	8.15 U	1.65 U	17.4 J	1.93 J
<u>PCBs:</u>						
Aroclor-1254	ug/kg	2010	24.4 J	53.7 J	57.7 J	16.5 U
Aroclor-1260	ug/kg	170 U	16.3 U	24.8	31.2 J	16.5 U
<u>Herbicides:</u>						
Pentachlorophenol	ug/kg	14.2 J	4.04 U	3.12 J	3.98 U	4.06 UJ
<u>Explosives:</u>						
1,3,5-Trinitrobenzene	mg/kg	0.240 U	0.246 U	0.502	0.193 J	0.249 U
2,4,6-Trinitrotoluene	mg/kg	2.06	5.43	8.88	7.03	0.413
2-Amino-4,6-dinitrotoluene	mg/kg	0.240 U	0.246 U	0.658	0.519	0.136 J
4-Amino-2,6-dinitrotoluene	mg/kg	0.148 J	0.246 U	0.813	0.526	0.162 J
HMX	mg/kg	0.142 J	0.246 U	0.650	0.457	0.249 U
RDX	mg/kg	1.02	0.246 U	1.68	1.15	0.249 U
Nitrocellulose	mg/kg	372	160	10.9	83.6	9.88 U
<u>Metals:</u>						
Aluminum	mg/kg	7610	15200	17700	9820	17500
Antimony	mg/kg	0.0850 B	-- R	0.0783 B	-- R	-- R
Arsenic	mg/kg	9.36	8.84	10.2	10.3	11.9
Barium	mg/kg	63.3 J	119 J	89.8 J	82.5 J	145 J
Beryllium	mg/kg	0.510	0.690	0.606	0.597	0.759
Cadmium	mg/kg	0.906 J	1.66 J	0.919 J	0.780 J	29.3 J
Calcium	mg/kg	18500 J	10100 J	9670 J	8020 J	2380 J
Chromium, Total	mg/kg	28.3 J	23.1 J	27.2 J	21.5 J	23.5 J
Cobalt	mg/kg	6.71 J	8.01 J	7.13 J	7.20 J	9.63 J
Copper	mg/kg	326 J	58.7 J	99.3 J	34.8 J	93.4 J
Iron	mg/kg	15800 J	19700 J	21300 J	18100 J	25800 J
Lead	mg/kg	68.7	25.1	55.4	61.5	33.9
Magnesium	mg/kg	4350	3300	2410	2120	3470
Manganese	mg/kg	407 J	497 J	448 J	443 J	309 J
Mercury	mg/kg	0.0738 J	0.0458 J	0.0849 J	0.0978	0.0243 J

Table B-5
Summary of Detected Chemicals - LL4 Stockpile Soil
Ravenna Army Ammunition Plant
Ravenna, Ohio

Analyte	Units	L08030356-01,-02 LL4-SPWC- 001-A-SO	L08030356-03,-04 LL4-SPWC- 002-B-SO	L08030356-05,-06 LL4-SPWC- 003-C-SO	L08030356-07,-08 LL4-SPWC- 004-D-SO	L08030356-09,-10 LL4-SPWC- 005-E-SO
Metals, cont'd:						
Nickel	mg/kg	18.3	18.5	12.8	15.0	24.2
Potassium	mg/kg	11900	1850	1180	992	2630
Selenium	mg/kg	0.636 J	0.390 J	0.467 J	0.447 J	0.308 J
Silver	mg/kg	0.352 J	0.488	0.427	0.410	0.372 J
Sodium	mg/kg	2140	101	180	142	94.9
Thallium	mg/kg	0.109 J	0.168 J	0.137 J	0.164 J	0.186 J
Vanadium	mg/kg	15.1	24.9	20.4	17.9	28.8
Zinc	mg/kg	211	117	143	151	230

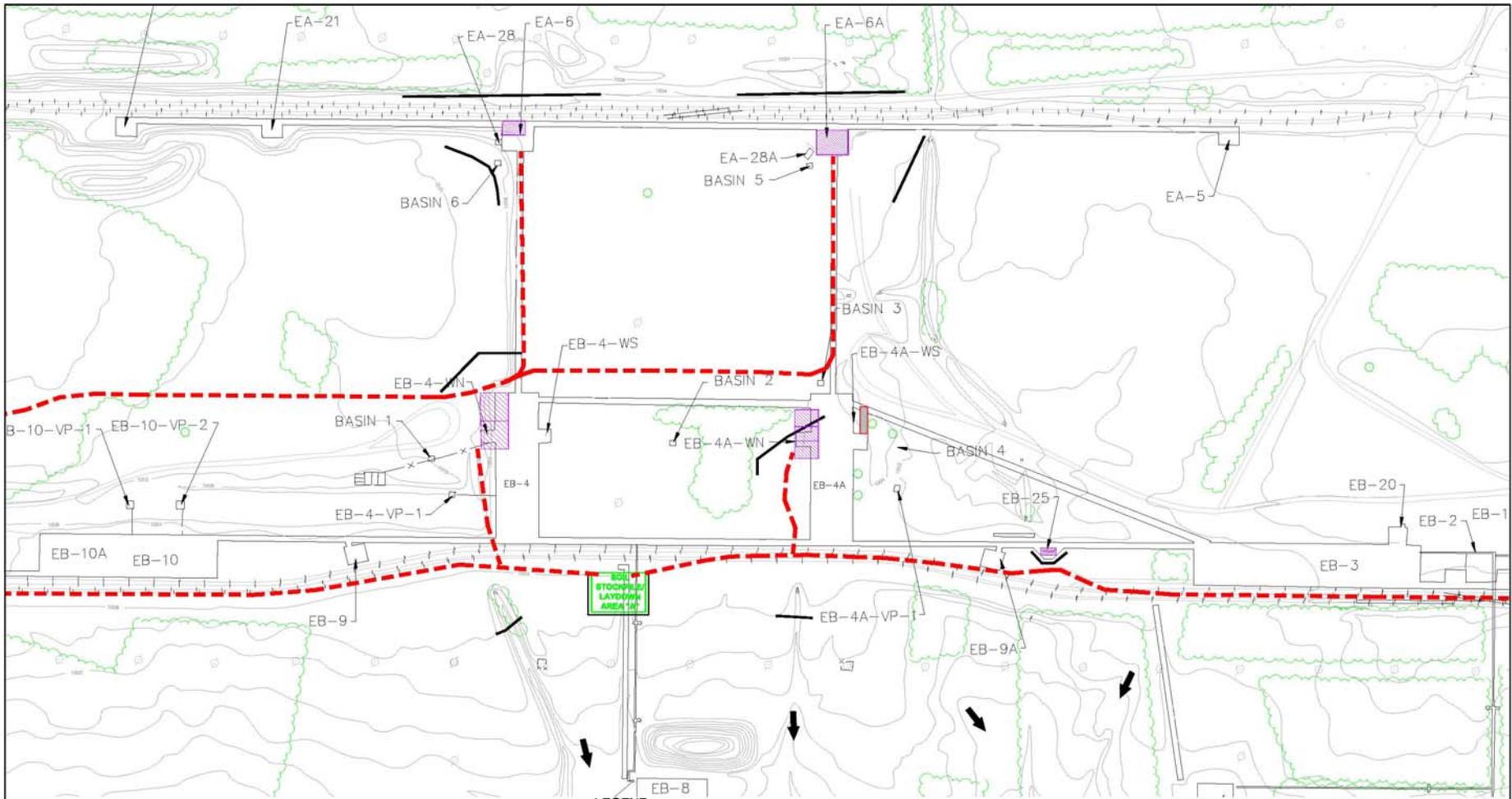
U = The analyte was analyzed for, but was not detected. Value shown is the sample reporting limit.

B = The analyte was present in an associated blank at a similar concentration. Its presence in the sample may be due to external contamination.

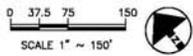
J = Estimated concentration because the result was below the sample reporting limit or quality control criteria were not met.

R = The nondetect sample result was rejected due to a recovery below 30% in the associated matrix spike. The presence or absence of the analyte could not be verified. The result is not usable.

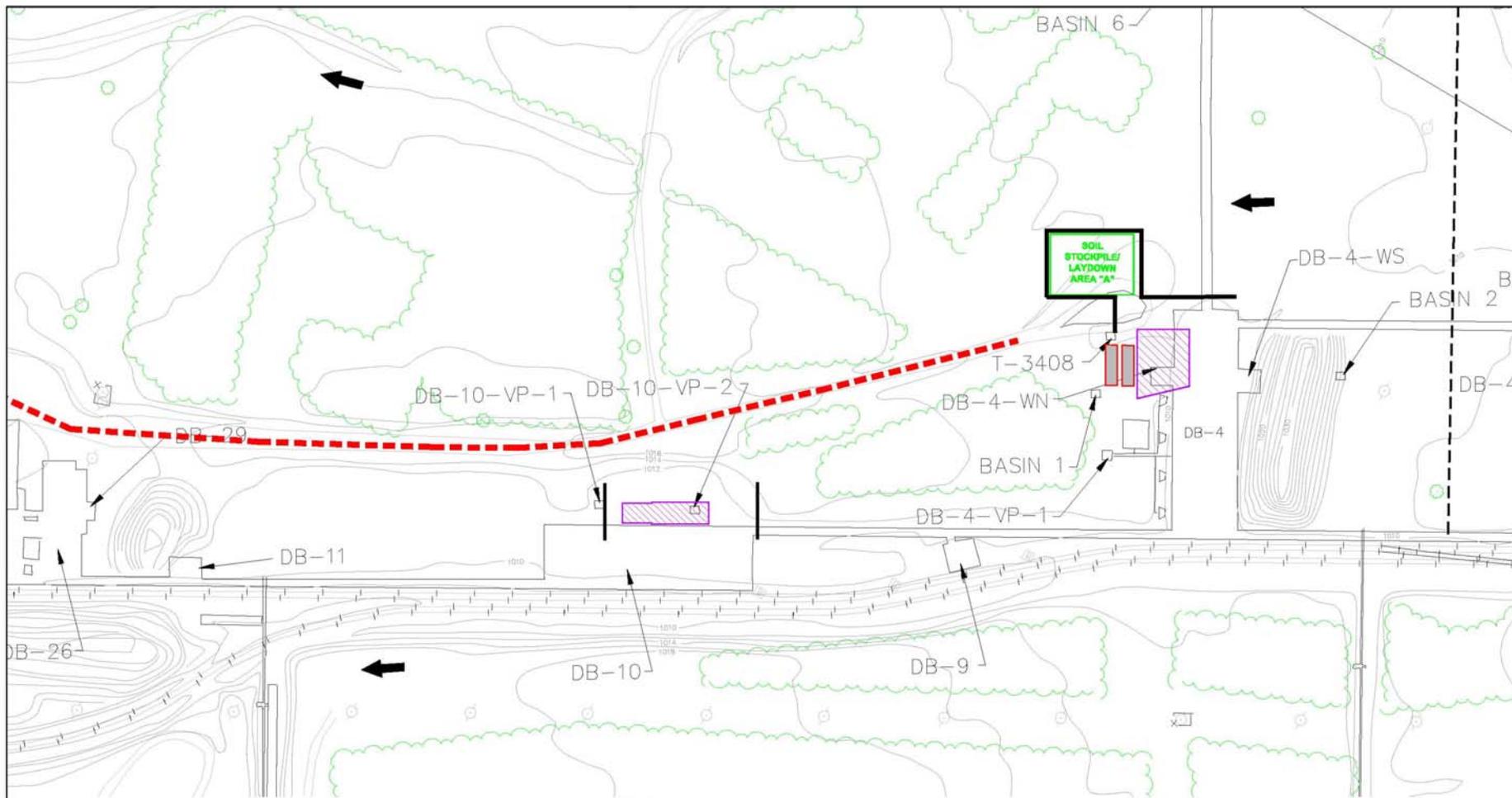
APPENDIX C
Revised Haul Routes and
Erosion and Sediment Controls



- LEGEND**
- BUILDING FOOTPRINT AND WALKWAY
 - ASPHALT ROAD
 - GRAVEL ROAD
 - RAILROAD TRACKS
 - FENCE LINE
 - CONTOUR (2 FT. INTERVAL)
 - CONTOUR (10 FT. INTERVAL)
 - TREE OR TREELINE
 - STEAM STATION
 - OVERHEAD STEAM LINE
 - AREA OF SOIL REMEDIATION
 - SILT FENCE BARRIER
 - STORM WATER FLOW DIRECTION
 - HAUL ROUTES
 - TANK (21,000 GALLON)

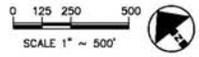


URS				
RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO				
REMEDICATION OF SUB-SLAB SOILS FIELD REVISED EROSION AND SEDIMENT CONTROLS LOAD LINE 3				
DRAWN BY: JSC	CHECKED BY: BP	PROJECT No: 13812319	DATE: 07/29/10	FIGURE No: C-3



LEGEND

- | | |
|--------------------------------|--------------------------------|
| BUILDING FOOTPRINT AND WALKWAY | OVERHEAD STEAM LINE |
| ASPHALT ROAD | AREA OF SOIL REMEDIATION |
| GRAVEL ROAD | SILT FENCE/STRAW BALES BARRIER |
| RAILROAD TRACKS | STORM WATER FLOW DIRECTION |
| FENCE LINE | HAUL ROUTES |
| CONTOUR (2 FT. INTERVAL) | TANK (21,000 GALLON) |
| CONTOUR (10 FT. INTERVAL) | |
| TREE OR TREELINE | |
| STEAM STANCHION | |



URS				
RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO				
REMEDICATION OF SUB-SLAB SOILS FIELD REVISED EROSION AND SEDIMENT CONTROLS LOAD LINE 2				
DRAWN BY: JSC	CHECKED BY: BP	PROJECT No: 13812319	DATE: 08/16/10	FIGURE No: C-4

APPENDIX D

Field Sampling Forms and Excavation Field Information

APPENDIX D-1
Field Sampling Forms

Field Sampling Report

Location ID: LL3EA6-SS-103SN-0001-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/4/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
			Push Probe Plastic Liner
Type/Construction			Mattocks JMC
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1353 hrs Sample Type: Composite - MI - Grab
 If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs	MS/MSD Yes / No NA
pH: unit	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / l	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mv	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

Sample Description
 Screening sample at EA6 base. Brown and gray, clayey sand mixed with bedrock fragments (shale, sandstone). Variably moist to wet.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: B. Pratt (Please Print)

Signature: Jennifer Shepard Signature: B. Pratt Date: 6-28-10

Field Sampling Report

Location ID: LL3EA6-SS-103SN-0002-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/4/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop		Trowel	
	Pump		Bacon Bomb	Bowl		Hand Auger
Type/Construction			Push Probe	X	Plastic Liner	
Miscellaneous	Well Parging Form Yes - No		Mattocks		JMC	

Sample Collection: 1338 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI. # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level:	Metals	
Temperature:	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs	MS/MSD Yes / No NA
pH:	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

<p>Sample Description Screening sample at EA6 northeast side wall. Brown and gray, clayey sand with trace lean clay and gravel.</p> <p><i>Soil sample description should include:</i> Munsell Color Odor Staining Texture Sorting Plasticity Moisture</p> <p><i>Water sample description should include:</i> Color Odor Sheen Turbidity</p>	<p style="text-align: right;">Split Sample</p> <p>Split Sample ID:</p> <p>Name:</p> <p>Agency/Company:</p> <p>Address:</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
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Logged By: Jennifer Shepard (Please Print) Reviewed by: B. Pratt (Please Print)

Signature: Jennifer Shepard Signature: B. Pratt Date: 6-28-10

Field Sampling Report

Location ID: LL3EA6-SS-103SN-0003-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/4/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	/	Sample Bottle	Scoop		Trowel
	Pump		Bacon Bomb	Bowl		Hand Auger
				Push Probe	X	Plastic Liner
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Parging Form Yes - No					

Sample Collection: 1330 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI. # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0.1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHO/cm	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

<p>Sample Description Screening sample at EA6 southeast side wall. Brown and gray, clayey sand trace lean clay and gravel.</p> <p><i>Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i></p> <p><i>Water sample description should include: Color Odor Sheen Turbidity</i></p>	<p style="text-align: center;">Split Sample</p> <p>Split Sample ID: _____</p> <p>Name: _____</p> <p>Agency/Company: _____</p> <p>Address: _____</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
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Logged By: Jennifer Shepard (Please Print) Reviewed by: B. Pratt (Please Print)

Signature: Jennifer Shepard Signature: B. Pratt Date: 6-28-10

Field Sampling Report

Location ID: LL3EA6-SS-103SN-0004-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/4/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop		Trowel	
	Pump	Bacon Bomb	Bowl		Hand Auger	
			Push Probe	X	Plastic Liner	
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Parging Form Yes - No					

Sample Collection: 1349 hrs Sample Type: Composite - MI - Grab _____ Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: Ft	Metals	QA Samples MS/MSD Yes / No NA Duplicate ID NA Equipment Rinse ID NA Trip Blank ID NA
Temperature: °C	Perchlorate	
Sp. Conductance: µMHO	PCBs	
pH: unit	Nitrate / Nitrite	
Dissolved Oxygen: Mg / l	TPH DRO / HRO	
Redox Potential: mV	Propellants	
Turbidity: N.T.U.	Pesticides	

<p>Sample Description Screening sample at EA6 southwest side wall. Brown and gray, moist clayey sand and lean clay.</p> <p><i>Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i></p> <p><i>Water sample description should include: Color Odor Sheen Turbidity</i></p>	<p style="text-align: right;">Split Sample</p> <p>Split Sample ID: _____</p> <p>Name: _____</p> <p>Agency/Company: _____</p> <p>Address: _____</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
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Logged By: <u>Jennifer Shepard</u> (Please Print)	Reviewed by: <u>B. Pratt</u> (Please Print)
Signature: <u>Jennifer Shepard</u>	Signature: <u>B. Pratt</u> Date: <u>6-28-10</u>

Field Sampling Report

Location ID: LL3EA6-SS-103SN-0005-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/4/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	/	Sample Bottle	Scoop		Trowel
	Pump		Bacon Board	Bowl		Hand Auger
Type/Construction			Push Probe	X	Plastic Liner	
Miscellaneous	Well Parging Form Yes - No		Mattocks		JMC	

Sample Collection: 1345 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHO	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

<p>Sample Description Screening sample at EA6 northwest side wall. Brown and gray, moist clayey sand and lean clay.</p> <p><i>Soil sample description should include:</i> Munsell Color Odor Staining Texture Sorting Plasticity Moisture</p> <p><i>Water sample description should include:</i> Color Odor Sheen Turbidity</p>	<p style="text-align: center;">Split Sample</p> <p>Split Sample ID: _____</p> <p>Name: _____</p> <p>Agency/Company: _____</p> <p>Address: _____</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
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Logged By: Jennifer Shepard (Please Print) Reviewed by: B. Pratt (Please Print)
 Signature: Jennifer Shepard Signature: B. Pratt Date: _____

Field Sampling Report

Location ID: **LL3SS-293M-2005-SO** RVAAP Excavation Sample, Ravenna, OH
 Date: **6/4/2010**

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X Plastic Liner
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1600 hrs Sample Type: Composite - M1 - Grab IF Location: Plotted on Map - Staked in Field
 MI, # of increments taken: 30 Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives	Ignitability
Water Level: Ft	Metals	QA Samples MS/MSD Yes / No NA Duplicate ID NA Equipment Rinse ID NA Trip Blank ID NA
Temperature: °C	Perchlorate	
Sp. Conductance: µMHO	PCBs	
pH: units	Nitrate / Nitrite	
Dissolved Oxygen: Mg / L	TPH DRO / HRO	
Redox Potential: mV	Propellants	
Turbidity: N.T.U	Pesticides	

Sample Description	Split Sample
Brown, moist, lean clay with sand and trace gravel. Recovery: Varies 1-4 inches Refusal: Varies 4-12 inches Building Footprint ID: EA6 - Base Soil sample description should include: <i>Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> Water sample description should include: <i>Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3SS-293M-2006-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/4/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop		Trowel	
	Pump	Bacon Bomb	Bowl		Hand Auger	
			Push Probe	X	Plastic Liner	
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1530 hrs Sample Type: Composite - M1 - Grab If Location: Plotted on Map - Staked in Field
 MI, # of increments taken: 30 Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / <u>No</u> NA
Dissolved Oxygen: Mg/l	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description	Split Sample
Brown, moist, lean clay with sand and trace gravel. Recovery: Varies 4-8 inches Refusal: Varies 4-12 inches Building Footprint ID: EA6 - Sidewalls Soil sample description should include: <i>Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> Water sample description should include: <i>Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD / Duplicate / Trip Blanks / Field Blanks Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3EA6A-SS-104SN-0001-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/7/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X
Type/Construction			Mattocks	JMC
Miscellaneous	Well Parging Form Yes - No			

Sample Collection: 1246 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FF (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppn	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppn	Explosives X	Ignitability
Water Level: FI	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO ₂	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

Sample Description
 Screening sample from the base of EA6A from the northern portion of the excavation. Brown, moist lean clay with trace gravel.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print)

Reviewed by: B. Pratt (Please Print)

Signature: Jennifer Shepard

Signature: B. Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3EA6A-SS-104SN-0002-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/7/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1235 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI. # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppn	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppn	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs	MS/MSD Yes / No NA
pH: unit	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

Sample Description
 Screening sample of the EA6A southern side wall from the northern portion of the excavation.
 Brown and gray, moist lean clay and clayey sand.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID:
 Name:
 Agency/Company:
 Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: B. Pratt (Please Print)
 Signature: Jennifer Shepard Signature: B. Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3EA6A-SS-104SN-0003-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/7/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle Bacon Bomb	Scoop		Trowel	
	Pump		Bowl		Hand Auger	
			Push Probe	X	Plastic Liner	
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Purgng Form Yes - No					

Sample Collection: 1229 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO _s	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample of the EA6A western side wall from the northern portion of the excavation.
 Brown with trace maroon, moist lean clay and clayey sand.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID:
 Name:
 Agency/Company:
 Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: B. Pratt (Please Print)

Signature: Jennifer Shepard Signature: B. Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3EA6A-SS-104SN-0004-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/7/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	Scoop		Trowel
	Pump	Bacon Bomb	Bowl		Hand Auger
			Push Probe	X	Plastic Liner
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1242 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHO	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: NTU	Pesticides	

Sample Description
 Screening sample of the EA6A eastern side wall from the northern portion of the excavation.
 Brown and gray, moist to wet lean clay and clayey sand with iron oxide staining.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: B Pratt (Please Print)

Signature: Jennifer Shepard Signature: B Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3EA6A-SS-104SN-0005-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/7/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Parging Form Yes - No				

Sample Collection: 1534 hrs

Sample Type: Composite - MI - Grab
If MI, # of increments taken: _____

Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppb	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppb	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHOs	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
Screening sample from the base of EA6A from the southern portion of the excavation. Brown and gray, moist lean clay and clayey sand.

*Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
Color Odor Sheen Turbidity*

Split Sample

Split Sample ID:
Name:
Agency/Company:
Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print)

Reviewed by: B. Pratt (Please Print)

Signature: Jennifer Shepard

Signature: B. Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3EA6A-SS-104SN-0006-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/7/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Parging Form Yes - No				

Sample Collection: 1506 hrs

Sample Type: Composite - MI - Grab
If MI, # of increments taken: _____

Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: Ft	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHOs	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
Screening sample of the EA6A northeastern side wall from the southern portion of the excavation.
Brown, moist clayey sand with trace gravel.

*Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
Color Odor Sheen Turbidity*

Split Sample

Split Sample ID:

Name:
Agency/Company:
Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print)

Reviewed by: B Pratt (Please Print)

Signature: Jennifer Shepard

Signature: B Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3EA6A-SS-104SN-0007-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/7/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X Plastic Liner
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1530 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppb	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppb	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHOs	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

Sample Description
 Screening sample of the EA6A southeastern side wall from the southern portion of the excavation.
 Brown, moist clayey sand with trace gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID:
 Name:
 Agency/Company:
 Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: BPatt (Please Print)
 Signature: Jennifer Shepard Signature: BPatt Date: 6-30-10

Field Sampling Report

Location ID: LL3EA6A-SS-104SN-0008-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/7/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle Bacon Bomb	Scoop	Trowel
	Pump		Bowl	Hand Auger
			Push Probe	X
Type/Construction			Mattocks	JMC
Miscellaneous	Well Parging Form Yes - No			

Sample Collection: 1538 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppn	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppn	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHO _c	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample of the EA6A southwestern side wall from the southern portion of the excavation. Brown, moist to wet silty sand with trace lean clay and trace gravel.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print)

Reviewed by: B Pratt (Please Print)

Signature: Jennifer Shepard

Signature: B Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3EA6A-SS-104SN-0009-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/7/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	Scoop		Trowel
	Pump	Bacon Bomb	Bowl		Hand Auger
			Push Probe	X	Plastic Liner
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1640 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO/cm	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/l	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: NTU	Pesticides	

<p>Sample Description Screening sample of the EA6A western side wall from the northern portion of the excavation after extended excavation. Brown and gray, moist lean clay with sand and trace gravel.</p> <p><i>Soil sample description should include:</i> Munsell Color Odor Staining Texture Sorting Plasticity Moisture</p> <p><i>Water sample description should include:</i> Color Odor Sheen Turbidity</p>	<p style="text-align: right;">Split Sample</p> <p>Split Sample ID: _____</p> <p>Name: _____</p> <p>Agency/Company: _____</p> <p>Address: _____</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
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Logged By: Jennifer Shepard (Please Print) Reviewed by: BPratt (Please Print)
 Signature: Jennifer Shepard Signature: BPratt Date: 6-30-10

Field Sampling Report

Location ID: LL3SS-261M-1200-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/7/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1625 hrs

Sample Type: Composite - MI - Grab If
MI, # of increments taken: 30

Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: 0.1 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: unit	PCBs	MS/MSD Yes / <u>No</u> NA
Dissolved Oxygen: Mg / L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description
Brown, trace gray, moist, silty sand and clayey sand, with trace gravel.

Recovery: Varies from 4-8 inches
Refusal: Varies from 4-12 inches
Building Footprint ID: EA6A - Base

*Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
Color Odor Sheen Turbidity*

Split Sample

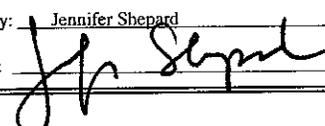
Split Sample ID:

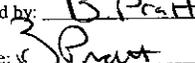
Name:

Agency/Company:

Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print)
Signature: 

Reviewed by: B. Pratt (Please Print)
Signature:  Date: 6-30-10

Field Sampling Report

Location ID: LL3SS-261M-2007-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/7/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	/	Sample Bottle	Scoop		Trowel
	Pump		Bacon Bomb	Bowl		Hand Auger
				Push Probe	X	Plastic Liner
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1707 hrs

Sample Type: Composite - MI - Grab If
MI, # of increments taken: 30

Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppb	VOC	Corrosivity
Sample: 0.0 ppb	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives	Ignitability
Temperature: °C	Metals	
Sp. Conductance: µMHO/cm	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	Duplicate ID
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID
Turbidity: NTU	Propellants	Trip Blank ID
	Pesticides	

Sample Description	Split Sample
Brown and gray, moist, silty sand and clayey sand with gravel. Recovery: Varies from 4-8 inches Refusal: Varies from 4-12 inches Building Footprint ID: EA6A - Sidewalls Soil sample description should include: <i>Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> Water sample description should include: <i>Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print)

Reviewed by: BP Pratt (Please Print)

Signature: Jennifer Shepard

Signature: BP Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3EB25-SS-105SN-0001-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/8/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X Plastic Liner
Type/Construction			Mattocks	JMC
Miscellaneous	Well Casing Form Yes - No			

Sample Collection: 1415 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHOs	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description
 Screening sample of the EB25 northwestern side wall from the northern portion of the excavation.
 Brown, moist lean clay with sand and trace gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID:

Name:
 Agency/Company:
 Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: B Pratt (Please Print)
 Signature: Jennifer Shepard Signature: B Pratt Date: 6-3-10

Field Sampling Report

Location ID: LL3EB25-SS-105SN-0002-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/8/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X Plastic Liner
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1425 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0.1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppb	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppb	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHOs	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample of the EB25 northeastern side wall from the northern portion of the excavation.
 Brown with trace gray, moist lean clay with sand, silty sand, and trace gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID:
 Name:
 Agency/Company:
 Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: BAnt (Please Print)
 Signature: Jennifer Shepard Signature: BAnt Date: 6-30-10

Field Sampling Report

Location ID: LL3EB25-SS-105SN-0003-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/8/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	/	Sample Bottle	Scoop		Trowel
	Pump		Bacon Bomb	Bowl		Hand Auger
				Push Probe	X	Plastic Liner
Type/Construction			Mattocks			JMC
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1447 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppb	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppb	Explosives X	Ignitability
Water Level: Ft	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample of the EB25 southeastern side wall from the southern portion of the excavation. Brown and gray, moist mixture of lean clay with sand and clayey sand with trace gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

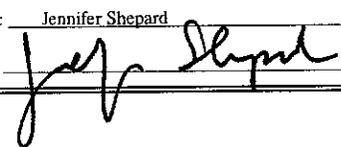
Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: B Pratt (Please Print)

Signature:  Signature: B Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3EB25-SS-105SN-0004-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/8/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X Plastic Liner
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1433 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: Ft	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO/cm	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample of the EB25 southwestern side wall from the southern portion of the excavation.
 Brown, moist lean clay with sand and sily sand with trace gravel.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

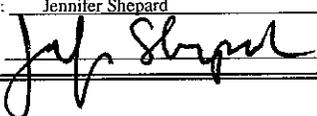
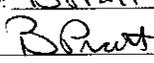
*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID:
 Name:
 Agency/Company:
 Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: B Pratt (Please Print)

Signature:  Signature:  Date: 6-30-10

Field Sampling Report

Location ID: **LL3EB25-SS-105SN-0005-SO** RVAAP Excavation Sample, Ravenna, OH
 Date: **6/8/2010**

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	Scoop		Trowel
	Pump	Bacon Bomb	Bowl		Hand Auger
			Push Probe	X	Plastic Liner
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1443 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHOs	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: NTU	Pesticides	

<p>Sample Description Screening sample from the base at EB25 from the northwest portion of the excavation. Brown and gray, moist lean clay with sand and silty sand with trace gravel.</p> <p><i>Soil sample description should include:</i> Munsell Color Odor Staining Texture Sorting Plasticity Moisture</p> <p><i>Water sample description should include:</i> Color Odor Sheen Turbidity</p>	<p style="text-align: center;">Split Sample</p> <p>Split Sample ID: _____</p> <p>Name: _____</p> <p>Agency/Company: _____</p> <p>Address: _____</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
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Logged By: Jennifer Shepard (Please Print) Reviewed by: BRatt (Please Print)
 Signature: Jennifer Shepard Signature: BRatt Date: 6/30/10

Field Sampling Report

Location ID: LL3EB25-SS-105SN-0006-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/8/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X Plastic Liner
Type/Construction			Mattocks	JMC
Miscellaneous	Well Parging Form Yes - No			

Sample Collection: 1445 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

<p>Sample Description Screening sample from the EB25 base from the southern portion of the excavation. Brown, moist lean clay with sand and trace gravel.</p> <p><i>Soil sample description should include:</i> Munsell Color Odor Staining Texture Sorting Plasticity Moisture</p> <p><i>Water sample description should include:</i> Color Odor Sheen Turbidity</p>	<p style="text-align: center;">Split Sample</p> <p>Split Sample ID: _____</p> <p>Name: _____</p> <p>Agency/Company: _____</p> <p>Address: _____</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
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Logged By: Jennifer Shepard (Please Print)

Reviewed by: BP Pratt (Please Print)

Signature: Jennifer Shepard

Signature: BP Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3SS-294M-2008-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/8/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1615 hrs Sample Type: Composite - MI - Grab If
 MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC X	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: Ft	Metals X	/
Temperature: °C	Perchlorate	
Sp. Conductance: µMHO	PCBs X	
pH: unit	Nitrate / Nitrite	
Dissolved Oxygen: Mg / L	TPH DRO / HRO	
Redox Potential: mV	Propellants	
Turbidity: NTU	Pesticides	
		QA Samples
		MS/MSD Yes / No NA
		QA Duplicate LL3SS-294M-2009-QA
		Field Duplicate LL3SS-294M-2010-SO
		Blind Duplicate LL3SS-294M-2011-SO

Sample Description	Split Sample
Brown, moist, lean clay with sand and trace gravel. Recovery: Varies from 1 inch to 12 inches Refusal: Varies from 1 inch to 12 inches Building Footprint ID: EB25 - Base Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture Water sample description should include: Color Odor Sheen Turbidity	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: B Pratt (Please Print)
 Signature: Jennifer Shepard Signature: B Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3SS-294M-2009-QA

RVAAP Excavation Sample, Ravenna, OH

Date: 6/8/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1615 hrs Sample Type: Composite - MI - Grab If MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT. (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	X	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	X	Ignitability
Water Level: Ft	Metals	/
Temperature: °C	Perchlorate	/
Sp. Conductance: uMHOs	PCBs	QA Samples
pH: units	Nitrate / Nitrite	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Duplicate ID NA
Redox Potential: mV	Propellants	Equipment Rinse ID NA
Turbidity: N.T.U.	Pesticides	Trip Blank ID NA

Sample Description	Split Sample
Brown, moist, lean clay with sand and trace gravel. Recovery: Varies from 1 inch to 12 inches Refusal: Varies from 1 inch to 12 inches Building Footprint ID: EB25 - Base Soil sample description should include: <i>Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> Water sample description should include: <i>Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: BP (Please Print)
 Signature: Jennifer Shepard Signature: BP Date: 6-30-10

Field Sampling Report

Location ID: LL3SS-294M-2010-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/8/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1615 hrs Sample Type: Composite - MI - Grab If Location: Plotted on Map - Staked in Field
 MI, # of increments taken: 30 Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC X	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: Ft	Metals X	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHO	PCBs X	MS/MSD Yes / <u>No</u> NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / l	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

Sample Description	Split Sample
Brown, moist, lean clay with sand and trace gravel. Recovery: Varies from 1 inch to 12 inches Refusal: Varies from 1 inch to 12 inches Building Footprint ID: EB25 - Base <i>Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> <i>Water sample description should include: Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: B Pratt (Please Print)

Signature: Jennifer Shepard Signature: B Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3SS-294M-2011-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/8/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Manlocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1605 hrs Sample Type: Composite - MI - Grab If Location: Plotted on Map - Staked in Field
 MI. # of increments taken: 30 Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	X	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	X	Ignitability
Water Level: FT	X	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	X	MS/MSD Yes / No NA
pH: units	PCBs	Duplicate ID NA
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	Equipment Rinse ID NA
Redox Potential: mV	TPH DRO / HRO	Trip Blank ID NA
Turbidity: N.T.U.	Propellants	
	Pesticides	

Sample Description	Split Sample
Brown, moist, lean clay with sand and trace gravel. Recovery: Varies from 1 inch to 12 inches Refusal: Varies from 1 inch to 12 inches Building Footprint ID: EB25 - Base Soil sample description should include: <i>Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> Water sample description should include: <i>Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: [Signature] (Please Print)
 Signature: [Signature] Signature: [Signature] Date: 6-30-10

Field Sampling Report

Location ID: LL3SS-294M-2012-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/8/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	/	Sample Bottle	Scoop
	Pump		Bacon Bomb	Bowl
				Hand Auger
Type/Construction			Push Probe	X
Miscellaneous	Well Purging Form Yes - No		Mattocks	JMC

Sample Collection: 1605 hrs Sample Type: Composite - MI - Grab If MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg / L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description	Split Sample
Brown, moist, lean clay and clayey sand with trace gravel. Recovery: Varies from 1 inch to 12 inches Refusal: Varies from 1 inch to 12 inches Building Footprint ID: EB25 - Sidewalls Soil sample description should include: <i>Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> Water sample description should include: <i>Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print)

Reviewed by: Barat (Please Print)

Signature: Jennifer Shepard

Signature: Barat

Date: 6-30-10

Field Sampling Report

Location ID: LL3EB4A-SS-106SN-0001-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/10/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		JMC

Sample Collection: 1410 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHO	PCBs	MS/MSD Yes / No NA
pH: unit	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mv	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

Sample Description
 Screening sample at EB4A auxiliary southeastern side wall. Brown and gray, moist lean clay with sand and trace gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID:
 Name:
 Agency/Company:
 Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print)
 Signature:

Reviewed by: B. Pruitt (Please Print)
 Signature: Date: 6-30-10

Field Sampling Report

Location ID: LL3EB4A-SS-106SN-0002-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/10/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X
Type/Construction			Mattocks	JMC
Miscellaneous	Well Parging Form Yes - No			

Sample Collection: 1419 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters	
PID / FID Readings:	VOC	Corrosivity	
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide	
Sample: 0.0 ppm	Explosives X	Ignitability	
Water Level: Ft	Metals	QA Samples	
Temperature: °C	Perchlorate		MS/MSD Yes / No NA
Sp. Conductance: uMHO	PCBs		Duplicate ID NA
pH: units	Nitrate / Nitrite		Equipment Rinse ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Trip Blank ID NA	
Redox Potential: mV	Propellants		
Turbidity: N.T.U	Pesticides		

<p>Sample Description Screening sample at EB4A auxillary southwestern side wall. Brown and gray, moist lean clay with sand and trace gravel and topsoil.</p> <p><i>Soil sample description should include:</i> Munsell Color Odor Staining Texture Sorting Plasticity Moisture</p> <p><i>Water sample description should include:</i> Color Odor Sheen Turbidity</p>	<p style="text-align: right;">Split Sample</p> <p>Split Sample ID: _____</p> <p>Name: _____</p> <p>Agency/Company: _____</p> <p>Address: _____</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed</p>
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Logged By: Jennifer Shepard (Please Print) Reviewed by: B. Pratt (Please Print)

Signature: Jennifer Shepard Signature: B. Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3EB4A-SS-106SN-0003-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/10/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	/	Sample Bottle	Scoop		Trowel
	Pump		Bacon Bomb	Bowl		Hand Auger
				Push Probe	X	Plastic Liner
Type/Construction			Mattocks			JMC
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1439 hrs Sample Type: Composite - MI - Grab
 If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHOs	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

<p>Sample Description Screening sample at EB4A auxillary northwestern side wall. Brown and gray, moist clayey sand with trace gravel.</p> <p><i>Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i></p> <p><i>Water sample description should include: Color Odor Sheen Turbidity</i></p>	<p style="text-align: center;">Split Sample</p> <p>Split Sample ID: _____</p> <p>Name: _____</p> <p>Agency/Company: _____</p> <p>Address: _____</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
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Logged By: Jennifer Shepard (Please Print) Reviewed by: BP Pratt (Please Print)

Signature: *Jennifer Shepard* Signature: *BP Pratt* Date: 6-30-10

Field Sampling Report

Location ID: LL3EB4A-SS-106SN-0004-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/10/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop		Trowel	
	Pump	Bacon Bomb	Bowl		Hand Auger	
			Push Probe	X	Plastic Liner	
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1426 hrs **Sample Type:** Composite - MI - Grab **Location:** Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ **Estimated** - Measured - GPS Surveyed
Sample Depth: 0-1 FT (below surface) **Decon:** Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: Ft	Explosives X	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg / L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

<p>Sample Description Screening sample at EB4A auxillary southern portion of base. Brown and gray, moist clayey sand with trace gravel.</p> <p><i>Soil sample description should include:</i> Munsell Color Odor Staining Texture Sorting Plasticity Moisture</p> <p><i>Water sample description should include:</i> Color Odor Sheen Turbidity</p>	<p style="text-align: right;">Split Sample</p> <p>Split Sample ID: _____</p> <p>Name: _____</p> <p>Agency/Company: _____</p> <p>Address: _____</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
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Logged By: Jennifer Shepard (Please Print) Reviewed by: B. Prout (Please Print)
 Signature: Jennifer Shepard Signature: B. Prout Date: 6-30-10

Field Sampling Report

Location ID: LL3EB4A-SS-106SN-0005-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/10/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		Trowel Hand Auger Plastic Liner JMC

Sample Collection: 1446 hrs Sample Type: Composite - MI - Grab
 If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location
 Estimated - Measured - GPS Surveyed

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHOs	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

<p>Sample Description</p> <p>Screening sample at EB4A auxiliary base near pipe. Brown and gray, moist clayey sand with trace gravel.</p> <p><i>Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i></p> <p><i>Water sample description should include: Color Odor Sheen Turbidity</i></p>	<p style="text-align: right;">Split Sample</p> <p>Split Sample ID:</p> <p>Name:</p> <p>Agency/Company:</p> <p>Address:</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
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Logged By: Jennifer Shepard (Please Print)

Reviewed by: BRcutt (Please Print)

Signature: Jennifer Shepard

Signature: BRcutt Date: 6-30-10

Field Sampling Report

Location ID: LL3EB4A-SS-106SN-0006-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/10/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
			Push Probe X Plastic Liner
Type/Construction			Mattocks JMC
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1500 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters <small>(at time of sample)</small>	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHO	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

Sample Description
 Screening sample at EB4A auxillary northwestern portion of base. Brown and gray, lean clay with sand and trace gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID:
 Name:
 Agency/Company:
 Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print)

Reviewed by: BP (Please Print)

Signature: Jennifer Shepard

Signature: BP

Date: 6-30-10

Field Sampling Report

Location ID: LL3SS-295M-2013-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/10/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump		Bowl	Hand Auger
			Push Probe	X
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1525 hrs Sample Type: Composite - M1 - Grab If
 MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location
 Estimated - Measured - GPS Surveyed

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	X	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	X	Ignitability
Water Level: FT	X	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	X	MS/MSD Yes / No NA
pH: unit	PCBs	Duplicate ID NA
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	Equipment Rinse ID NA
Redox Potential: mV	TPH DRO / HRO	Trip Blank ID NA
Turbidity: N.T.U.	Propellants	
	Pesticides	

Sample Description	Split Sample
Brown, moist, lean clay with sand and trace gravel. Recovery: Varies from 1 inch to 12 inches Refusal: Varies from 1 inch to 12 inches Building Footprint ID: EB4A - Auxillary Base Soil sample description should include: <i>Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> Water sample description should include: <i>Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: B. Pratt (Please Print)
 Signature: Jennifer Shepard Signature: B. Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3SS-295M-2014-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/10/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Baker	Sample Bottle	Scoop		Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1525 hrs Sample Type: Composite - MI - Grab If MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location Estimated - Measured - GPS Surveyed

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppb	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppb	Explosives	Ignitability
Water Level: Ft	Metals	
Temperature: °C	Perchlorate	
Sp. Conductance: µMHO	PCBs	QA Samples
pH: units	Nitrate / Nitrite	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Duplicate ID NA
Redox Potential: mV	Propellants	Equipment Rinse ID LL3SS-295M-2014-ER
Turbidity: N.T.U.	Pesticides	Trip Blank ID NA

Sample Description	Split Sample
Brown, moist, lean clay with sand and trace gravel. Recovery: Varies from 1 inch to 12 inches Refusal: Varies from 1 inch to 12 inches Building Footprint ID: EB4A - Auxillary Sidewalls Soil sample description should include: <i>Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> Water sample description should include: <i>Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Jennifer Shepard (Please Print) Reviewed by: B Pratt (Please Print)
 Signature: Jennifer Shepard Signature: B Pratt Date: 6-30-10

Field Sampling Report

Location ID: LL3EB4A-SS-107SN-0001-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/14/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	/	Sample Bottle	Scoop		Trowel
	Pump		Bacon Bomb	Bowl		Hand Auger
				Push Probe	X	Plastic Liner
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Paving Form Yes - No					

Sample Collection: 1214 hrs **Sample Type:** Composite - MI - Grab **Location:** Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ **Estimated** - Measured - GPS Surveyed
Sample Depth: 0-1 FT (below surface) **Decon:** Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHO	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample at EB4A eastern side wall from southern portion of excavation. Brown, moist lean clay with sand and trace gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID:

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3EB4A-SS-107SN-0002-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/14/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
Type/Construction			Push Probe	X Plastic Liner
Miscellaneous	Well Purging Form Yes - No		Mattocks	JMC

Sample Collection: 1230 hrs **Sample Type:** Composite - MI - Grab If MI, # of increments taken: _____ **Location:** Plotted on Map - Staked in Field
Sample Depth: 0-1 FT (below surface) **Decon:** Dedicated - Each Day - Each Location **Estimated** - Measured - GPS Surveyed

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppb	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppb	Explosives X	Ignitability
Water Level: FT	Metals	QA Samples
Temperature: °C	Perchlorate	
Sp. Conductance: uMHO	PCBs	Duplicate ID NA
pH: units	Nitrate / Nitrite	Equipment Rinse ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Trip Blank ID NA
Redox Potential: mV	Propellants	
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample at EB4A base from southern portion of excavation. Brown, moist lean clay with sand and trace gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Sheppard (Please Print)
 Signature: Brenda Pratt Signature: J. Sheppard Date: 7/12/10

Field Sampling Report

Location ID: LL3EB4A-SS-107SN-0003-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/14/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop		Trowel	
	Pump	Bacon Bomb	Bowl		Hand Auger	
			Push Probe	X	Plastic Liner	
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1223 hrs Sample Type: Composite - MI - Grab If Location: Plotted on Map - Staked in Field
 MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHO/cm	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample at EB4A western side wall from southern portion of excavation. Brown, moist lean clay with sand and trace gravel.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt Signature: J. Shepard Date: 7/2/10

Field Sampling Report

Location ID: LL3SS-296M-2015-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/14/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1330 hrs **Sample Type:** Composite - MI - Grab **Location:** Plotted on Map - Staked in Field
 If MI, # of increments taken: 30 **Estimated - Measured - GPS Surveyed**
Sample Depth: 0-1 FT (below surface) **Decon:** Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters		
PID / FID Readings:		/		
Background: 0.0 ppm	VOC		Corrosivity	
Sample: 0.0 ppm	SVOC	X	Reactivity Sulfide/Cyanide	
Water Level: FT	Explosives	X	Ignitability	
Temperature: °C	Metals	X	QA Samples	
Sp. Conductance: uMHOs	Perchlorate		MS/MSD	Yes / No NA
pH: units	PCBs	X	Duplicate ID	NA
Dissolved Oxygen: Mg/l	Nitrate / Nitrite		Equipment Rinse ID	NA
Redox Potential: mV	TPH DRO / HRO		Trip Blank ID	NA
Turbidity: N.T.U.	Propellants			
	Pesticides			

Sample Description	Split Sample
Brown, moist, lean clay with sand and trace gravel. Recovery: Varies from 1 inch to 12 inches Refusal: Varies from 1 inch to 12 inches Building Footprint ID: EB4A Base - Southern portion of excavation Soil sample description should include: <i>Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> Water sample description should include: <i>Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD Duplicate · Trip Blanks · Field Blanks Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3SS-296M-2016-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/14/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X Plastic Liner
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1430 hrs Sample Type: Composite - MI - Grab If Location: Plotted on Map - Staked in Field
 MI, # of increments taken: 30 Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC X	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals X	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHOs	PCBs X	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description	Split Sample
Dark Brown, lean clay with sand and trace gravel.	Split Sample ID:
Recovery: Varies from 1 inch to 12 inches	Name:
Refusal: Varies from 1 inch to 12 inches	Agency/Company:
Building Footprint ID: EB4A Sidewalls - Southern portion of excavation	Address:
Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture	QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Water sample description should include: Color Odor Sheen Turbidity	Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt Signature: J. Shepard Date: 7/13/10

Field Sampling Report

Location ID: LL3EB4A-SS-108SN-0001-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/14/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1625 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FF (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: Ft	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHO	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitric	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample at EB4A eastern side wall from northern portion of excavation. Brown, moist, wet, clay with sand and trace gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Signature: Brenda Pratt

Reviewed by: J. Shepard (Please Print)

Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3EB4A-SS-108SN-0002-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/14/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop		Trowel	
	Pump	Bacon Bomb	Bowl		Hand Auger	
			Push Probe	X	Plastic Liner	
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1636 hrs Sample Type: Composite - MI - Grab If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHO/cm	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample at EB4A base from northern portion of excavation. Brown, moist, lean clay with trace gravel and sand.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3EB4A-SS-108SN-0003-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/14/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
Type/Construction			Push Probe	X Plastic Liner
Miscellaneous	Well Parging Form Yes - No		Mattocks	JMC

Sample Collection: 1639 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI. # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHOs	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/l	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

<p>Sample Description Screening sample at EB4A northwestern side wall from northern portion of excavation. Brown, moist lean clay with trace gravel and sand.</p> <p><i>Soil sample description should include:</i> Munsell Color Odor Staining Texture Sorting Plasticity Moisture</p> <p><i>Water sample description should include:</i> Color Odor Sheen Turbidity</p>	<p style="text-align: center;">Split Sample</p> <p>Split Sample ID:</p> <p>Name:</p> <p>Agency/Company:</p> <p>Address:</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
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Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3EB4A-SS-108SN-0004-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/14/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
Type/Construction			Push Probe X Plastic Liner Mattocks JMC
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1632 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHOs	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/l	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample at EB4A northeastern side wall from northern portion of excavation. Brown, moist lean clay with sand and trace gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Signature: Brenda Pratt

Reviewed by: J. Shepard (Please Print)

Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3SS-292M-2003-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/14/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Railer	Sample Bottle	Scoop Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
			Push Probe X Plastic Liner
Type/Construction			Mattocks JMC
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1800 hrs Sample Type: Composite - M - Grab If MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppb	SVOC X	Reactivity Sulfide/Cyanide
Sample: 0.0 ppb	Explosives X	Ignitability
Water Level: FT	Metals X	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHO	PCBs X	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description	Split Sample
Brown, moist, wet clay with sand and trace gravel. Recovery: Varies from 1 inch to 12 inches Refusal: Varies from 1 inch to 12 inches Building Footprint ID: EB4A Base - Northern portion of excavation <i>Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> <i>Water sample description should include: Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3SS-292M-2004-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/14/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X Plastic Liner
Type/Construction			Matlocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1800 hrs Sample Type: Composite - MI - Grab If
 MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppb	SVOC X	Reactivity Sulfide/Cyanide
Sample: 0.0 ppb	Explosives X	Ignitability
Water Level: Ft	Metals X	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs X	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

Sample Description	Split Sample
Brown and dark brown, moist, lean clay with sand, trace organics, and trace gravel. Recovery: Varies from 1 inch to 12 inches Refusal: Varies from 1 inch to 12 inches Building Footprint ID: EB4A Sidewalls - Northern portion of excavation <i>Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> <i>Water sample description should include: Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3EB4-SS-109SN-0001-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/15/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
			Push Probe X Plastic Liner
Type/Construction			Mattocks JMC
Miscellaneous	Well Parging Form Yes - No		

Sample Collection: 1240 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppn	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppn	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs	MS/MSD Yes / No NA
pH: unit	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/l	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

Sample Description
 Screening sample at EB4 southeastern side wall from southern portion of excavation. Brown, moist sand and trace gravel.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID:

Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3EB4-SS-109SN-0002-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/15/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Parging Form Yes - No				

Sample Collection: 1215 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg / L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

<p>Sample Description Screening sample at EB4 southwestern side wall from southern portion of excavation. Brown, moist sand and trace gravel.</p> <p><i>Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i></p> <p><i>Water sample description should include: Color Odor Sheen Turbidity</i></p>	<p style="text-align: center;">Split Sample</p> <p>Split Sample ID: _____</p> <p>Name: _____</p> <p>Agency/Company: _____</p> <p>Address: _____</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
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Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/14/10

Field Sampling Report

Location ID: LL3EB4-SS-109SN-0003-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/15/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop Trowel
	Pump	Bacon Board	Bowl Hand Auger
			Push Probe X Plastic Liner
Type/Construction			Mattocks JMC
Miscellaneous	Well Parging Form Yes - No		

Sample Collection: 1230 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters <small>(at time of sample)</small>	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO/cm	PCBs	MS/MSD Yes / No NA
pH: unit	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample at EB4 northwestern side wall from southern portion of excavation. Brown, moist lean clay with sand and trace gravel and organics.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3EB4-SS-109SN-0004-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/15/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
			Push Probe X Plastic Liner
Type/Construction			Mattocks JMC
Miscellaneous	Well Parging Form Yes - No		

Sample Collection: 1254 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI. # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-0.1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs	MS/MSD Yes / No NA
pH: unit	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/l	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

Sample Description
 Screening sample at EB4 base along pipe from southern portion of excavation. Less than 1" of soil to sample. Under stained water due to rock and concrete foundation. Brown, wet, gravely silty sand.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/1/10

Field Sampling Report

Location ID: LL3EB4-SS-109SN-0005-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/15/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Parging Form Yes - No		JMC

Sample Collection: 1310 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-0.1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppn	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppn	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs	MS/MSD Yes / No NA
pH: unit	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample at EB4 base along pipe from southern portion of excavation. Less than 1" of soil to sample. Under stained water due to rock and concrete foundation. Brown, wet, gravely silty sand.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Signature: Brenda Pratt

Reviewed by: J. Shepard (Please Print)

Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: **LL3EB4-SS-109SN-0006-SO**

RVAAP Excavation Sample, Ravenna, OH

Date: **6/15/2010**

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Parging Form Yes - No		JMC

Sample Collection: 1320 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-0.1 FT. (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs	MS/MSD Yes / No NA
pH: unit	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mv	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

Sample Description
 Screening sample at EB4 base along pipe from southern portion of excavation. Less than 1" of soil to sample. Under stained water due to rock and concrete foundation. Brown, wet, gravely silty sand.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3EB4-SS-109SN-0007-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/15/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X Plastic Liner
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1331 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: Ft	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHOs	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample at EB4 base from southern portion of excavation. Brown, wet, gravely, silty sand, trace clay.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt Signature: J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3SS-253M-1185-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/15/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1500 hrs Sample Type: Composite - MI - Grab If MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
	Explosives	Ignitability
Water Level: Ft	Metals	
Temperature: °C	Perchlorate	
Sp. Conductance: uMHO	PCBs	QA Samples
pH: units	Nitrate / Nitrite	MS/MSD Yes / No NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Duplicate ID NA
Redox Potential: mV	Propellants	Equipment Rinse ID NA
Turbidity: N.T.U	Pesticides	Trip Blank ID NA

Sample Description	Split Sample
Moist, brown gravelly sand. Recovery: Varies 1 to 12 inches Refusal: Varies 1 to 12 inches Building Footprint ID: EB4 Base - Southern portion of excavation Soil sample description should include: <i>Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> Water sample description should include: <i>Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. J. Shepard Date: 7/12/10

Field Sampling Report

Location ID: LL3SS-253M-1185-MS

RVAAP Excavation Sample, Ravenna, OH

Date: 6/15/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
Type/Construction			Push Probe	X	Plastic Liner
Miscellaneous	Well Purging Form Yes - No		Mattocks		JMC

Sample Collection: 1500 hrs Sample Type: Composite - MI - Grab If
 MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC X	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals X	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: unit	PCBs X	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/l	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mv	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description	Split Sample
Moist, brown gravelly sand. Recovery: Varies 1 to 12 inches Refusal: Varies 1 to 12 inches Building Footprint ID: EB4 Base - Southern portion of excavation Soil sample description should include: <i>Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> Water sample description should include: <i>Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL3SS-253M-1185-MSD

RVAAP Excavation Sample, Ravenna, OH

Date: 6/15/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X Plastic Liner
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1500 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: 30 Estimated - Measured - GPS Surveyed
 Sample Depth: (+1 FT) (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppb	VOC	Corrosivity
Sample: 0.0 ppb	SVOC	Reactivity Sulfide/Cyanide
	Explosives	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHOs	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description	Split Sample
Moist, brown gravelly sand. Recovery: Varies 1 to 12 inches Refusal: Varies 1 to 12 inches Building Footprint ID: EB4 Base - Southern portion of excavation Soil sample description should include: <i>Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> Water sample description should include: <i>Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL3SS-253M-2002-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/15/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe
Type/Construction			X Plastic Liner
Miscellaneous	Well Purging Form Yes - No		Mattocks
			JMC

Sample Collection: 1505 hrs Sample Type: Composite - MI - Grab If
 MI. # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO/cm	Perchlorate	QA Samples
pH: unit	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description	Split Sample
Moist, brown sand mixed with lean clay. Recovery: Varies 1 to 12 inches Refusal: Varies 1 to 12 inches Building Footprint ID: EB4 Walls- Southern portion of excavation <i>Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> <i>Water sample description should include: Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: **LL3EB4-SS-110SN-0001-SO**

RVAAP Excavation Sample, Ravenna, OH

Date: **6/16/2010**

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Board	Bowl	Hand Auger
			Push Probe	X
Type/Construction			Mattocks	JMC
Miscellaneous	Well Casing Form Yes - No			

Sample Collection: 1033 hrs Sample Type: Composite - MI - Grab _____ Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: unit	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/l	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description
 Screening sample at EB4 southeastern side wall from northern portion of excavation. Brown, moist sand mixed with brown gray lean clay.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - AS Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL3EB4-SS-110SN-0002-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/16/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
Type/Construction			Push Probe	X Plastic Liner
Miscellaneous	Well Purging Form Yes - No		Mattocks	JMC

Sample Collection: 1043 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level:	Metals	
Temperature:	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs	MS/MSD Yes / No NA
pH:	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample at EB4 northwestern side wall from northern portion of excavation. Brown, moist lean clay mixed with sand.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL3EB4-SS-110SN-0003-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/16/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop		Trowel	
	Pump	Bacon Bomb	Bowl		Hand Auger	
			Push Probe	X	Plastic Liner	
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1053 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI. # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT. (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description
 Screening sample at EB4 northeastern side wall from northern portion of excavation. Brown and gray moist lean clay mixed with clayey sand.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL3EB4-SS-110SN-0004-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/16/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
			Push Probe X Plastic Liner
Type/Construction			Mattocks JMC
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1106 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHO	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

<p>Sample Description Screening sample at EB4 base from northern portion of excavation. Brown, moist silty sand with gravel.</p> <p><i>Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i></p> <p><i>Water sample description should include: Color Odor Sheen Turbidity</i></p>	<p style="text-align: right;">Split Sample</p> <p>Split Sample ID:</p> <p>Name:</p> <p>Agency/Company:</p> <p>Address:</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
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Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL3EB4-SS-110SN-0005-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/16/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe X
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		JMC

Sample Collection: 1124 hrs Sample Type: Composite - MI - Grab
 If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs	MS/MSD Yes / No NA
pH: unit	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mv	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample at EB4 base around pipe from northern portion of excavation. Wet, brown clayey sand with gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Signature: Brenda Pratt

Reviewed by: J. Shepard (Please Print)

Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL3SS-297M-2017-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/16/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe X
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		JMC

Sample Collection: 1250 hrs Sample Type: Composite - M1 - Grab If 1 MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location Estimated - Measured - GPS Surveyed

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PTID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC X	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals X	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO/cm	PCBs X	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID LL3SS-297M-2017-ER
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: NTU	Pesticides	

Sample Description
 Moist, brown gravelly sand mixed with lean clay.

Recovery: Varies 1 to 12 inches
 Refusal: Varies 1 to 12 inches
 Building Footprint ID: EB4 Base- Northern portion of excavation

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID:
 Name:
 Agency/Company:
 Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)
 Signature: Brenda Pratt

Reviewed by: J. Shepard (Please Print)
 Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL3SS-297M-2018-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/16/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X Plastic Liner
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1240 hrs Sample Type: Composite - MI - Grab If
 MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHOs	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/l	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description	Split Sample
Moist, gray brown lean clay and sand. Recovery: Varies 1 to 12 inches Refusal: Varies 1 to 12 inches Building Footprint ID: EB4 Walls - Northern portion of excavation Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture Water sample description should include: Color Odor Sheen Turbidity	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2DB10-SS-111SN-0001-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/22/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1050 hrs

Sample Type: Composite - MI - Grab
If MI, # of increments taken: _____

Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppn	VOC	Corrosivity
Sample: 0.0 ppn	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description
Screening sample at DB-10 southeastern side wall. Brown, moist sand with gravel and trace root fibers.

Split Sample
Split Sample ID:

Name:
Agency/Company:
Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

*Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
Color Odor Sheen Turbidity*

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2DB10-SS-111SN-0002-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/22/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X Plastic Liner
Type/Construction			Mattocks	JMC
Miscellaneous	Well Parging Form Yes - No			

Sample Collection: 1053 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: _____ FT	Metals	
Temperature: _____ °C	Perchlorate	QA Samples
Sp. Conductance: _____ uMHOs	PCBs	MS/MSD Yes / No NA
pH: _____ units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: _____ Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: _____ mV	Propellants	Trip Blank ID NA
Turbidity: _____ N.T.U.	Pesticides	

<p>Sample Description Screening sample at DB-10 southwestern side wall. Brown, moist sand with trace gravel.</p> <p><i>Soil sample description should include:</i> Munsell Color Odor Staining Texture Sorting Plasticity Moisture</p> <p><i>Water sample description should include:</i> Color Odor Sheen Turbidity</p>	<p style="text-align: center;">Split Sample</p> <p>Split Sample ID: _____</p> <p>Name: _____</p> <p>Agency/Company: _____</p> <p>Address: _____</p> <p>QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks</p> <p>Parameters: Same as Above - As Listed</p>
--	--

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2DB10-SS-111SN-0003-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/22/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop		Trowel	
	Pump	Bacon Board	Bowl		Hand Auger	
			Push Probe	X	Plastic Liner	
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Parging Form Yes - No					

Sample Collection: 1100 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: Ft	Explosives X	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: unit	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg / L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description
 Screening sample at DB-10 northwestern side wall. Brown, trace maroon, loam-fine sand with gravel.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2DB10-SS-111SN-0004-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/22/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1038 hrs Sample Type: Composite - MI - Grab _____ Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level:	Explosives X	Ignitability
Temperature:	Metals	
Sp. Conductance:	Perchlorate	QA Samples
pH:	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen:	Nitrate / Nitrite	Duplicate ID NA
Redox Potential:	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity:	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description
 Screening sample at DB-10 northeastern side wall. Moist brown sand with trace gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2DB10-SS-111SN-0005-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/22/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks	JMC	
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1045 hrs Sample Type: Composite - MI - Grab _____ Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppn	VOC	Corrosivity
Sample: 0.0 ppn	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals	
Sp. Conductance: µMHO	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg / L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description
 Screening sample at DB-10 base, excluding pipe. Brown, trace gray and maroon, moist sand with trace gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2DB10-SS-111SN-0006-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/22/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	/	Sample Bottle	Scoop	X	Trowel
	Pump		Bacon Bomb	Bowl		Hand Auger
				Push Probe		Plastic Liner
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1030 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: Surface Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppb	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppb	Explosives X	Ignitability
Water Level: Ft	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: µMHOs	PCBs	MS/MSD Yes / No NA
pH: unal	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample at DB-10 base, along pipe. Moist, marooned stained sandy gravel on bedrock.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID:
 Name:
 Agency/Company:
 Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: Jeff Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2DB10-SS-111SN-0007-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/22/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	/	Sample Bottle	Scoop	X	Trowel
	Pump		Bacon Bomb	Bowl		Hand Auger
				Push Probe		Plastic Liner
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Parging Form Yes - No					

Sample Collection: 1020 hrs Sample Type: Composite - MI - Grab _____ Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: Surface Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: Ft	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHOs	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample of DB-10 maroon stained gravel. Marooned stained slag/gravel on bedrock.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID:
 Name:
 Agency/Company:
 Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)
 Signature: Brenda Pratt

Reviewed by: J. Shepard (Please Print)
 Signature: John Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2SS-315M-1286-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/22/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1338 hrs Sample Type: Composite - MI - Grab If MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Sample Depth: 0-0.1 FT (below surface) Decon: Dedicated - Each Day - Each Location Estimated - Measured - GPS Surveyed

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO/cm	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	QA Duplicate LL2SS-315M-1287-QA
Redox Potential: mV	TPH DRO / HRO	Field Duplicate LL2SS-315M-1288-SO
Turbidity: NTU	Propellants	Blind Duplicate LL2SS-315M-1289-SO
	Pesticides	

Sample Description	Split Sample
Brown and dark brown, moist, with coarse to fine sand, trace gravel. <i>JP</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed
Recovery: 1 inch Refusal: 1 inch Building Footprint ID: DB-10 Base Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture Water sample description should include: Color Odor Sheen Turbidity	

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2SS-315M-1287-QA

RVAAP Excavation Sample, Ravenna, OH

Date: 6/22/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1338 hrs Sample Type: Composite - MI - Grab If Location: Plotted on Map - Staked in Field
 MI, # of increments taken: 30 Estimated - Measured - GPS Surveyed
 Sample Depth: 0-0.1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC X	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals X	
Sp. Conductance: µMHO	Perchlorate	QA Samples
pH: unit	PCBs X	MS/MSD Yes / No NA
Dissolved Oxygen: Mg / L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description	Split Sample
Brown and dark brown, moist, with coarse to fine sand, trace gravel. <i>js</i>	/
Recovery: 1 inch Refusal: 1 inch Building Footprint ID: DB-10 Base	
Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture Water sample description should include: Color Odor Sheen Turbidity	
Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed	

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard

Date: 7/26/10

Field Sampling Report

Location ID: LL2SS-315M-1288-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/22/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop		Trowel	
	Pump	Bacon Bomb	Bowl		Hand Auger	
			Push Probe	X	Plastic Liner	
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1338 hrs **Sample Type:** Composite - MI - Grab **Location:** Plotted on Map - Staked in Field
 If MI, # of increments taken: 30 Estimated - Measured - GPS Surveyed
Sample Depth: 0-0.1 FT (below surface) **Decon:** Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC X	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals X	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHOs	PCBs X	MS/MSD Yes / <u>No</u> NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description	Split Sample
Brown and dark brown, moist, with coarse to fine sand, trace gravel. <i>JE</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed
Recovery: 1 inch Refusal: 1 inch Building Footprint ID: DB-10 Base Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture Water sample description should include: Color Odor Sheen Turbidity	

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: *Brenda Pratt* Signature: *J. Shepard* Date: 7/26/10

Field Sampling Report

Location ID: LL2SS-315M-1289-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/22/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1325 hrs Sample Type: Composite - MI - Grab If MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed
 Sample Depth: 0-0.1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
	Explosives	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	
Sp. Conductance: uMHO	PCBs	QA Samples
pH: units	Nitrate / Nitrite	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Duplicate ID NA
Redox Potential: mV	Propellants	Equipment Rinse ID NA
Turbidity: N.T.U.	Pesticides	Trip Blank ID NA

Sample Description

Brown and dark brown, moist, ~~with~~ coarse to fine sand, trace gravel.
JP

Recovery: 1 inch
 Refusal: 1 inch
 Building Footprint ID: DB-10 Base

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID:
 Name:
 Agency/Company:
 Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2SS-315M-1290-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/22/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1330 hrs Sample Type: Composite - M1 - Grab If
 M1, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed
 Sample Depth: 0-0.2 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC X	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals X	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: unit	PCBs X	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/l	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description	Split Sample
Brown moist sand with trace gravel. Recovery: 1-2 inches Refusal: 1-2 inches Building Footprint ID: DB-10 Sidewalls Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture Water sample description should include: Color Odor Sheen Turbidity	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard

Date: 7/26/10

Field Sampling Report

Location ID: LL2DB4-SS-112SN-0001-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/23/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks	JMC	
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1007_hrs Sample Type: Composite - MI - Grab if Location: Plotted on Map - Staked in Field
 MI. # of increments taken: _____ Estimated - Measured - GPS Surveyed
 Sample Depth: 0-1 FT (below surface) Deton: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description
 Screening sample at DB4 southeastern sidewall. Brown, moist medium coarse sand, trace gravel mixed with lean clay.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Signature: Brenda Pratt

Reviewed by: J. Shepard (Please Print)

Signature: Jeff Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2DB4-SS-112SN-0002-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/23/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	X
Type/Construction			Mattocks	JMC
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1320 hrs Sample Type: Composite - MI - Grab If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters	
PID / FID Readings:			
Background: 0.0 ppm	VOC	Corrosivity	
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide	
Water Level: FT	Explosives	X	Ignitability
Temperature: °C	Metals		
Sp. Conductance: uMHO/cm	Perchlorate		QA Samples
pH: unit	PCBs		MS/MSD Yes / No NA
Dissolved Oxygen: Mg/l	Nitrate / Nitrite		Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO		Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants		Trip Blank ID NA
	Pesticides		

Sample Description
 Screening sample at DB4 southwestern sidewall. Brown, moist lean clay with sand and trace gravel.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2DB4-SS-112SN-0003-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/23/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
			Push Probe X Plastic Liner
Type/Construction			Mattocks JMC
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1337 hrs Sample Type: Composite - MI - Grab If
 MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level:	Explosives X	Ignitability
Temperature:	Metals	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg / L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description
 Screening sample at DB4 base from southern portion of excavation. Brown, moist lean clay with trace sand.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2DB4-SS-112SN-0004-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/24/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Railer	Sample Bottle	Scoop		Trowel	
	Pump		Bowl		Hand Auger	
			Push Probe	X	Plastic Liner	
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1030 hrs Sample Type: Composite - MI - Grab If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location Estimated - Measured - GPS Surveyed

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: FT	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / l	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description
 Screening sample at DB4 base from northern portion of excavation. Brown and gray, moist to wet lean clay with sand, trace gravel.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2DB4-SS-112SN-0005-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/24/2010
6/24/2010 JS

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1035_hrs Sample Type: Composite - MI - Grab If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
 Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location Estimated - Measured - GPS Surveyed

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: NTU	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description
 Screening sample at DB4 northwestern sidewall. Brown, moist to wet lean clay with sand trace gravel.

Split Sample

Split Sample ID:
 Name:
 Agency/Company:
 Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2DB4-SS-112SN-0006-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/24/2010 *JS*
~~6/23/2010~~

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	/	Sample Bottle	Scoop		Trowel
	Pump		Bacon Bomb	Bowl		Hand Auger
				Push Probe	X	Plastic Liner
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1045 hrs **Sample Type:** Composite - MI - Grab If MI, # of increments taken: _____ **Location:** Plotted on Map - Staked in Field
Sample Depth: 0-1 FT (below surface) **Decon:** Dedicated - Each Day - Each Location **Estimated** - Measured - GPS Surveyed

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHOs	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg / L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description
 Screening sample at DB4 northeastern sidewall. Brown, moist to wet lean clay with sand trace gravel.

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2DB4-SS-112SN-0007-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/24/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1340 hrs

Sample Type: Composite - MI - Grab If
MI, # of increments taken: _____

Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT. (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHO-cm	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mv	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description
Screening sample at DB4 base near sump pump area on northern portion of excavation. Brown, wet lean clay with sand and trace gravel.

Split Sample ID:

Name:
Agency/Company:
Address:

*Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

*Water sample description should include:
Color Odor Sheen Turbidity*

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: LL2SS-284M-1243-SO

RVAAP Excavation Sample, Ravenna, OH

Date: 6/23/2010 and 6/24/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1445 (6/23) and 1420 (6/24) hrs Sample Type: Composite - MI - Grab If MI, # of increments taken: 30 Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: Ft	Explosives	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHOs	Perchlorate	QA Samples
pH: unit	PCBs	MS/MSD Yes / No NA
Dissolved Oxygen: Mg / L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description

Brown, moist and wet, lean clay with sand and trace gravel.

Southern half of footprint was sampled on 6/23/2010 and northern half on 6/24/2010 due to inclement weather.

Recovery: Varies from 4-12 inches

Refusal: Varies from 4-12 inches

Building Footprint ID: DB4 Base

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID:

Name:

Agency/Company:

Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: John J. Shepard (Please Print)

Signature: Brenda Pratt Signature: John Shepard Date: 6/24/10

Field Sampling Report

Location ID: LL2SS-284M-1285-S0

RVAAP Excavation Sample, Ravenna, OH

Date: 6/23/2010 and 6/24/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	/	Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
				Push Probe	X
Type/Construction			Mattocks		JMC
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1430 (6/23) and 1345 (6/24) hrs
 Sample Type: Composite - ML - Grab If MI, # of increments taken: 30
 Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed
Sample Depth: 0-1 FT (below surface)
 Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
	Explosives	Ignitability
Water Level: Ft	Metals	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs	MS/MSD Yes / <u>No</u> NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID LL2SS-284M-1285-ER
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U.	Pesticides	

Sample Description

Brown, moist and wet, lean clay with sand and trace gravel.

Southern half of footprint was sampled on 6/23/2010 and northern half on 6/24/2010 due to inclement weather.

Recovery: Varies from 4-12 inches

Refusal: Varies from 4-12 inches

Building Footprint ID: DB4 Sidewall

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID:

Name:

Agency/Company:

Address:

QA/QC Provided: MS/MSD Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)
 Reviewed by: J. Shepard (Please Print)
 Signature: Brenda Pratt
 Signature: J. Shepard
 Date: 7/26/10

Field Sampling Report

Location ID: LL3SS-Stockpile

RVAAP Excavation Sample, Ravenna, OH

Date: 6/16/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
			Push Probe X Plastic Liner
Type/Construction			Mattocks JMC
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1547 hrs

Sample Type: Composite - MI - Grab If
MI, # of increments taken:

Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppb	VOC	Corrosivity
Sample: 0.0 ppb	SVOC X	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives X	Ignitability
Temperature: °C	Metals X	
Sp. Conductance: uMHOs	Perchlorate	QA Samples
pH: units	PCBs X	MS/MSD Yes / No NA
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	Duplicate ID NA
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID NA
Turbidity: N.T.U.	Propellants	Trip Blank ID NA
	Pesticides	

Sample Description

LL3 Stockpile sample. Sampled for TCLP SVOCs, TCLP metals, explosives, and total PCBs.

Brown and gray, trace red and maroon, sandy lean clay with trace gravel.

Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
Color Odor Sheen Turbidity

Split Sample

Split Sample ID:

Name:

Agency/Company:

Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: *Brenda Pratt*

Signature: *J. Shepard* Date: 7/26/10

Field Sampling Report

Location ID: EB4A Water

RVAAP Excavation Sample, Ravenna, OH

Date: 6/16/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	X Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		JMC

Sample Collection: 1645 hrs Sample Type: Composite - MI - Grab If Location: Plotted on Map - Staked in Field
 MI, # of increments taken: Estimated - Measured - GPS Surveyed

Sample Depth: Surface Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC X	Corrosivity
Background: 0.0 ppm	SVOC X	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives X	Ignitability
Water Level: Ft	Metals X	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs X	MS/MSD Yes / No NA
pH: unit	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

Sample Description	Split Sample
Water sample from holding tank - contains water pumped from LL3 EB4A excavation area.	Split Sample ID:
	Name:
	Agency/Company:
	Address:
<i>Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i>	QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
<i>Water sample description should include: Color Odor Sheen Turbidity</i>	Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print) Reviewed by: J. Shepard (Please Print)

Signature: *Brenda Pratt* Signature: *J. Shepard* Date: 7/26/10

Field Sampling Report

Location ID: LL2SS-Stockpile

RVAAP Excavation Sample, Ravenna, OH

Date: 6/24/2010

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle Bacon Bomb	Scoop
	Pump		Bowl
			Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		JMC

Sample Collection: 1430 hrs

Sample Type: Composite - MI - Grab If
MI, # of increments taken:

Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: 0-1 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:		
Background: 0.0 ppm	VOC	Corrosivity
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
Water Level: FT	Explosives	Ignitability
Temperature: °C	Metals	
Sp. Conductance: uMHOs	Perchlorate	QA Samples
pH: units	PCBs	MS/MSD Yes / No
Dissolved Oxygen: Mg/L	Nitrate / Nitrite	Duplicate ID
Redox Potential: mV	TPH DRO / HRO	Equipment Rinse ID
Turbidity: N.T.U.	Propellants	Trip Blank ID
	Pesticides	

Sample Description

LL2 Stockpile sample. Sampled for TCLP SVOCs, TCLP metals, explosives, and total PCBs.

Brown and gray, trace red and maroon, sandy lean clay with trace gravel.

Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
Color Odor Sheen Turbidity

Split Sample

Split Sample ID:

Name:

Agency/Company:

Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: **DB4 Water 1**

RVAAP Excavation Sample, Ravenna, OH

Date: **6/29/2010**

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	X Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		JMC

Sample Collection: 1100 hrs

Sample Type: Composite - MI - Grab If
MI, # of increments taken:

Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: Surface

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: 0.0 ppm	X	
Sample: 0.0 ppm	SVOC	Reactivity Sulfide/Cyanide
	X	
Water Level:	Explosives	Ignitability
	X	
Temperature:	Metals	
	X	
Sp. Conductance:	Perchlorate	QA Samples
		MS/MSD
pH:	PCBs	Yes / No
Dissolved Oxygen:	Nitrate / Nitrite	NA
Redox Potential:	TPH DRO / HRO	Duplicate ID
Turbidity:	Propellants	Equipment Rinse ID
	Pesticides	Trip Blank ID
		NA

Sample Description
Water sample collected from southern holding tank - contains water pumped from LL2 DB4 excavation and neighboring pond.

Split Sample

Split Sample ID:

Name:

Agency/Company:

Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard Date: 7/2/2010

Field Sampling Report

Location ID: **DB4 Water 2**

RVAAP Excavation Sample, Ravenna, OH

Date: **6/29/2010**

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	X Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		JMC

Sample Collection: 1120 hrs

Sample Type: Composite - MI - Grab If
MI, # of increments taken:

Location: Plotted on Map - Staked in Field
Estimated - Measured - GPS Surveyed

Sample Depth: Surface

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC <input checked="" type="checkbox"/>	Corrosivity
Background: 0.0 ppb	SVOC <input checked="" type="checkbox"/>	Reactivity Sulfide/Cyanide
Sample: 0.0 ppb	Explosives <input checked="" type="checkbox"/>	Ignitability
Water Level: Ft	Metals <input checked="" type="checkbox"/>	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHO	PCBs <input checked="" type="checkbox"/>	MS/MSD Yes / No NA
pH: unit	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg / l	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mv	Propellants	Trip Blank ID NA
Turbidity: N.T.U	Pesticides	

Sample Description

Water sample collected from northern holding tank - contains water pumped from LL2 DB4 excavation and neighboring pond.

*Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
Color Odor Sheen Turbidity*

Split Sample

Split Sample ID:

Name:

Agency/Company:

Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Logged By: Brenda Pratt (Please Print)

Reviewed by: J. Shepard (Please Print)

Signature: Brenda Pratt

Signature: J. Shepard Date: 7/26/10

Field Sampling Report

Location ID: BF002

RVAAP Backfill Sample, Ravenna, OH

Date: 03/10/10

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	/	Sample Bottle	Scoop	X	Trowel
	Pump		Bacon Bomb	Bowl	X	Hand Auger
				Push Probe		Plastic Liner
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1500 hrs Sample Type: Composite - MI - Grab If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed

Sample Depth: Surface FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC <input checked="" type="checkbox"/>	Corrosivity
Background: 0.0 ppm	SVOC <input checked="" type="checkbox"/>	Reactivity Sulfide/Cyanide
Sample: 0.0 ppm	Explosives <input checked="" type="checkbox"/>	Ignitability
Water Level: FT	Metals <input checked="" type="checkbox"/>	
Temperature: °C	Perchlorate	QA Samples
Sp. Conductance: uMHOs	PCBs <input checked="" type="checkbox"/>	MS/MSD Yes / No NA
pH: units	Nitrate / Nitrite	Duplicate ID NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO	Equipment Rinse ID NA
Redox Potential: mV	Propellants <input checked="" type="checkbox"/>	Trip Blank ID NA
Turbidity: NTU	Pesticides <input checked="" type="checkbox"/>	

Sample Description	Split Sample
loose, moist, brown, sand Collected from Patrick Excavating <i>Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> <i>Water sample description should include: Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: B. Pratt (Please Print) Reviewed by: Jennifer Shepard (Please Print)
 Signature: *B. Pratt* Signature: *J. Shepard* Date: 3/12/10

Field Sampling Report

Location ID: **BF001**

RVAAP Backfill Sample, Ravenna, OH

Date: **03/10/10**

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge			
Method	Bailer	Sample Bottle	Scoop	X	Trowel	
	Pump	Bacon Bomb	Bowl	X	Hand Auger	
			Push Probe		Plastic Liner	
Type/Construction			Mattocks		JMC	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: 1430 hrs Sample Type: Composite - MI - Grab If MI, # of increments taken: Location: Plotted on Map - Staked in Field
 Estimated - Measured - GPS Surveyed

Sample Depth: Surface FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters							
PID / FID Readings:	VOC	X			Corrosivity				
Background: 0.0 ppm	SVOC	X			Reactivity Sulfide/Cyanide				
Sample: 0.0 ppm	Explosives	X			Ignitability				
Water Level: FT	Metals	X							
Temperature: °C	Perchlorate				QA Samples				
Sp. Conductance: uMhos	PCBs	X			MS/MSD	Yes / No			NA
pH: units	Nitrate / Nitrite				Duplicate ID				NA
Dissolved Oxygen: Mg/L	TPH DRO / HRO				Equipment Rinse ID				NA
Redox Potential: mV	Propellants	X			Trip Blank ID				NA
Turbidity: N.T.U.	Pesticides	X							

Sample Description	Split Sample
loose, moist, lt. brown, sand Collected from Rt 5 Sand and Gravel <i>Soil sample description should include: Munsell Color Odor Staining Texture Sorting Plasticity Moisture</i> <i>Water sample description should include: Color Odor Sheen Turbidity</i>	Split Sample ID: Name: Agency/Company: Address: QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks Parameters: Same as Above - As Listed

Logged By: B. Pratt (Please Print)

Reviewed by: Jennifer Shepard (Please Print)

Signature: B. Pratt

Signature: J. Shepard

Date: 3/12/10

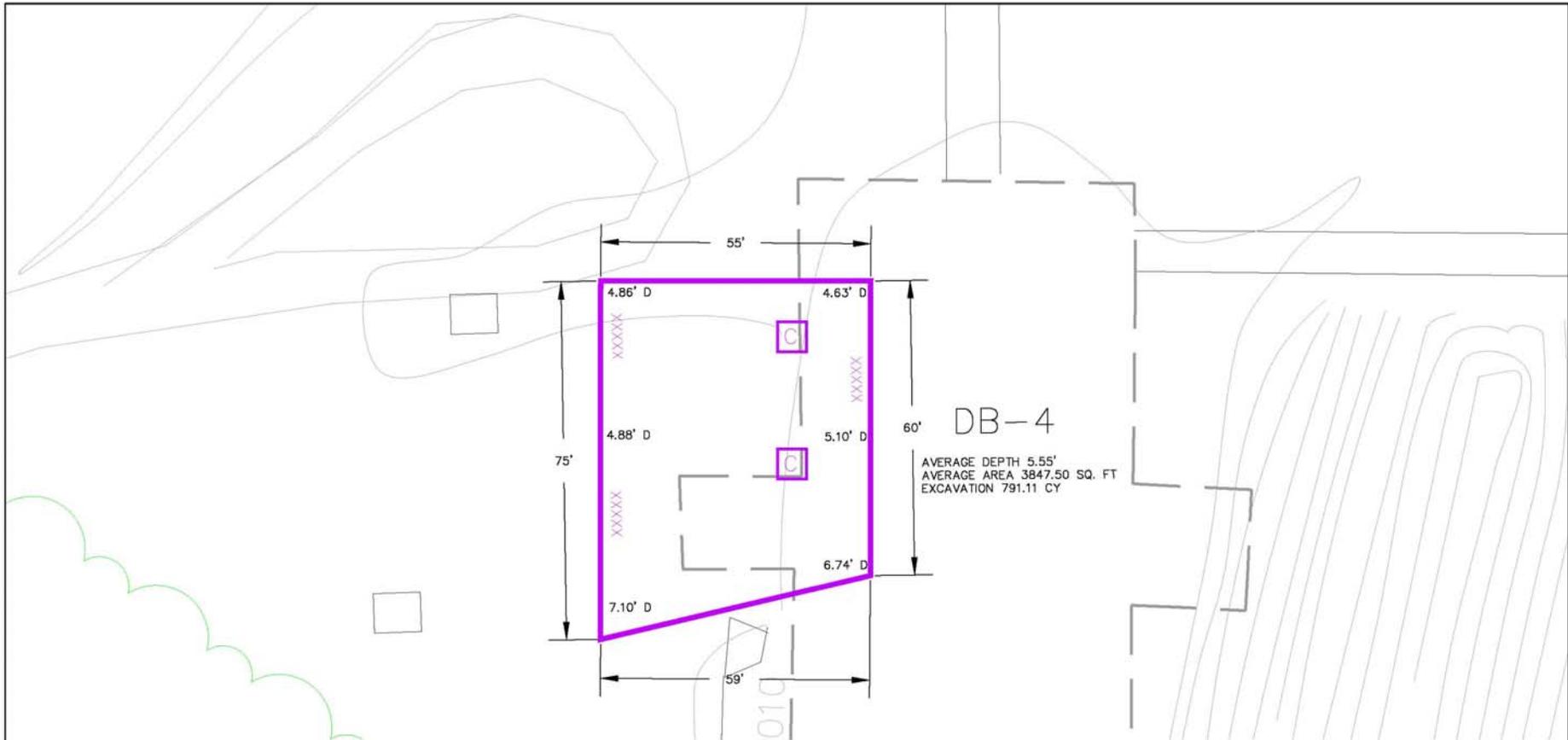
APPENDIX D-2

GPS Coordinates of Excavation Corners

Appendix D-2
GPS Coordinates of Excavation Corners
Ravenna Army Ammunition Plant
Ravenna, Ohio

Load Line	Building	Latitude	Longitude	Northing	Easting
<u>Load Line 2</u>					
DB4	DB4 -1	41.1982	-81.0270	561412.8273	2373829.4914
	DB4 -2	41.1981	-81.0269	561364.0548	2373860.7565
	DB4 -3	41.1980	-81.0271	561330.0131	2373795.9720
	DB4 -4	41.1981	-81.0273	561364.8011	2373762.6218
DB10	DB10-1	41.1993	-81.0286	561791.0637	2373386.7329
	DB10-2	41.1993	-81.0286	561794.3295	2373398.2672
	DB10-3	41.1993	-81.0285	561773.2648	2373410.5203
	DB10-4	41.1993	-81.0285	561773.4252	2373418.9769
	DB10-5	41.1991	-81.0284	561720.7643	2373442.6040
	DB10-6	41.1991	-81.0285	561715.5895	2373423.7003
<u>Load Line 3</u>					
EB4 (Southern excavation area)	EB4-A-1	41.1935	-81.0378	559646.9948	2370886.9329
	EB4-A-2	41.1936	-81.0379	559672.7270	2370866.7452
	EB4-A-3	41.1936	-81.0380	559655.5248	2370833.7624
	EB4-A-4	41.1935	-81.0379	559624.5324	2370851.2489
EB4 (Northern excavation area)	EB4-B-1	41.1935	-81.0378	559637.1489	2370890.7142
	EB4-B-2	41.1936	-81.0377	559656.4352	2370921.9647
	EB4-B-3	41.1937	-81.0377	559691.9383	2370905.5337
	EB4-B-4	41.1936	-81.0379	559673.6339	2370866.1924
EB4A (Auxiliary area - south of EB4A)	EB4A-A-1	41.1923	-81.0373	559209.9537	2371031.7614
	EB4A-A-2	41.1924	-81.0372	559223.5018	2371050.3433
	EB4A-A-3	41.1922	-81.0373	559177.5900	2371042.4500
	EB4A-A-4	41.1923	-81.0372	559195.2700	2371072.2021
EB4A (Southern excavation area)	EB4A-B-1	41.1923	-81.0372	559191.7443	2371069.7485
	EB4A-B-2	41.1923	-81.0371	559201.3195	2371094.4129
	EB4A-B-3	41.1924	-81.0372	559224.2632	2371050.5538
	EB4A-B-4	41.1924	-81.0372	559238.1814	2371071.3254
EB4A (Northern excavation area)	EB4A-C-1	41.1924	-81.0372	559239.1772	2371072.0681
	EB4A-C-2	41.1924	-81.0371	559252.0847	2371103.8936
	EB4A-C-3	41.1923	-81.0371	559204.4807	2371096.0843
	EB4A-C-4	41.1923	-81.0370	559219.4845	2371122.2968
EA6	EA6-1	41.1941	-81.0365	559872.2458	2371241.9774
	EA6-2	41.1942	-81.0364	559880.5854	2371262.4450
	EA6-3	41.1941	-81.0364	559852.4246	2371281.8956
	EA6-4	41.1940	-81.0364	559839.6235	2371261.8050
EA6A	EA6A-1	41.1929	-81.0355	559443.6431	2371518.3773
	EA6A-2	41.1928	-81.0355	559405.4852	2371539.3329
	EA6A-3	41.1928	-81.0356	559386.7190	2371503.6771
	EA6A-4	41.1929	-81.0357	559431.1323	2371483.2530
EB25	EB 25-1	41.1913	-81.0372	558823.7427	2371076.0831
	EB 25-2	41.1913	-81.0371	558832.6626	2371091.5996
	EB 25-3	41.1912	-81.0370	558795.3176	2371113.0638
	EB 25-4	41.1911	-81.0371	558781.1838	2371095.7691

APPENDIX D-3
Excavation Field Sketches

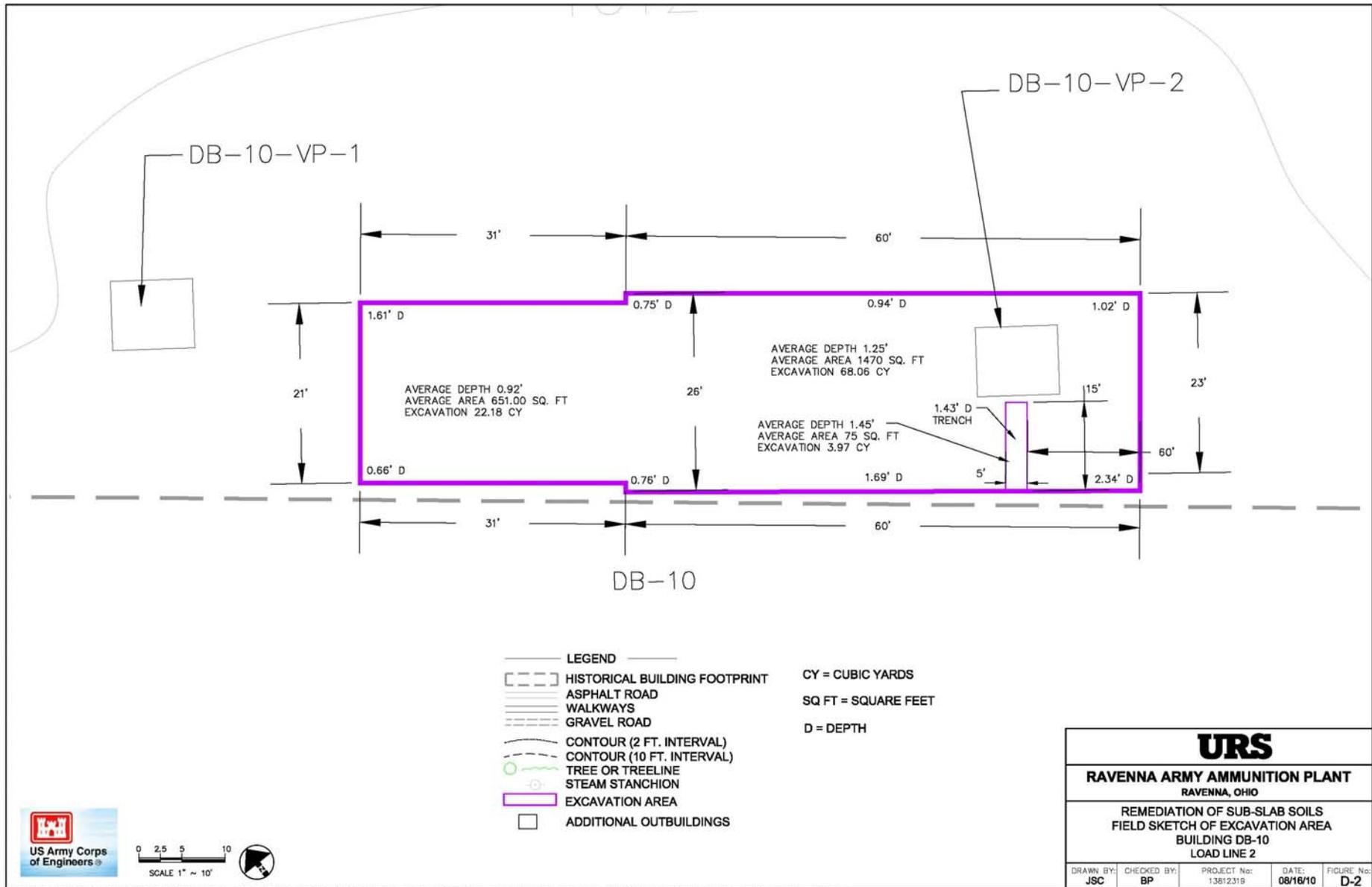


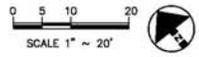
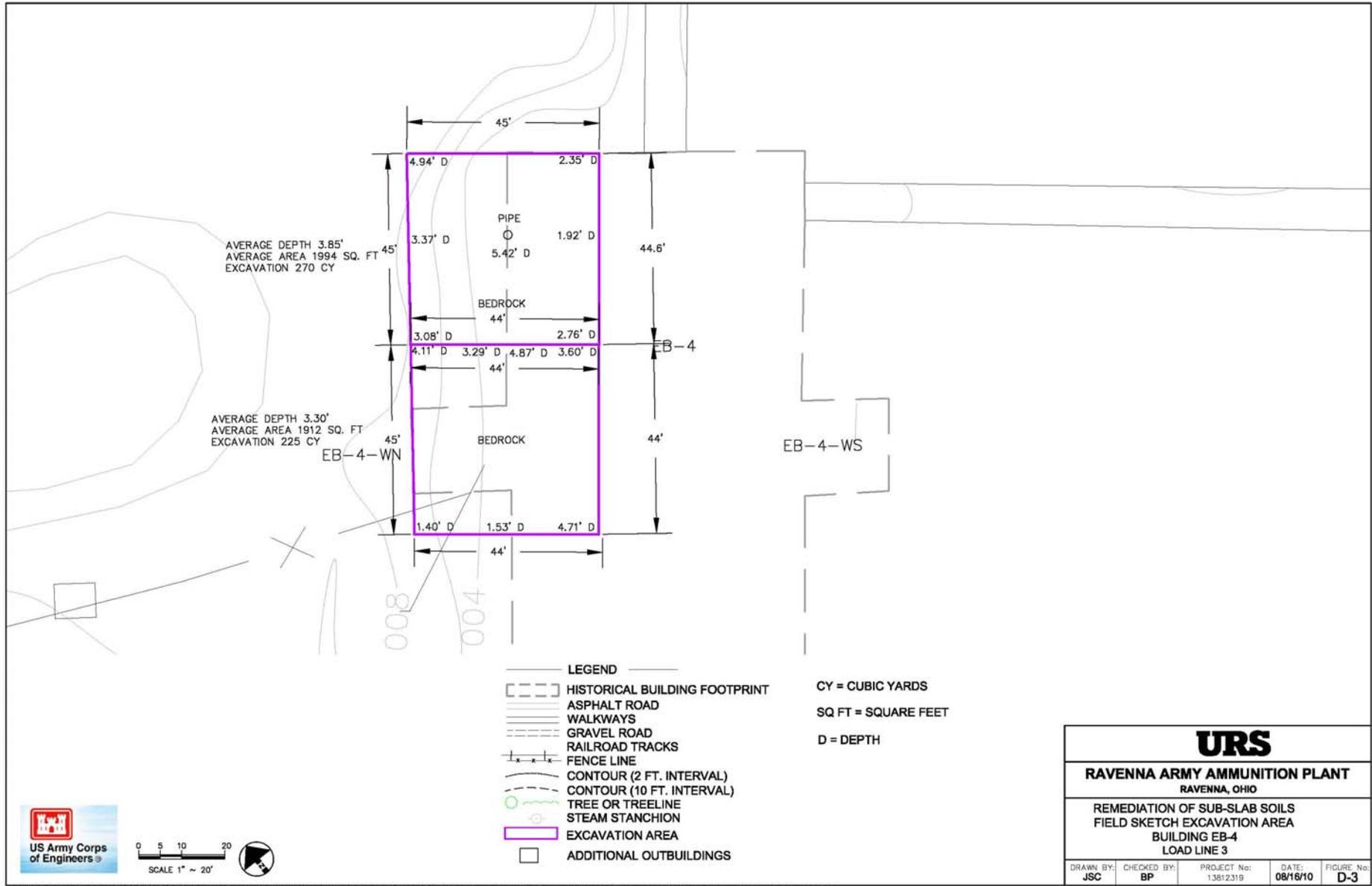
DB-4
 AVERAGE DEPTH 5.55'
 AVERAGE AREA 3847.50 SQ. FT
 EXCAVATION 791.11 CY

- LEGEND**
- HISTORICAL BUILDING FOOTPRINT
 - ASPHALT ROAD
 - WALKWAYS
 - GRAVEL ROAD
 - CONTOUR (2 FT. INTERVAL)
 - CONTOUR (10 FT. INTERVAL)
 - TREE OR TREELINE
 - STEAM STANCHION
 - EXCAVATION AREA
 - ADDITIONAL OUTBUILDINGS
 - VACUUM BAG HOUSE
 - CONCRETE DEBRIS
 - CONCRETE PIER
- CY = CUBIC YARDS
 SQ FT = SQUARE FEET
 D = DEPTH



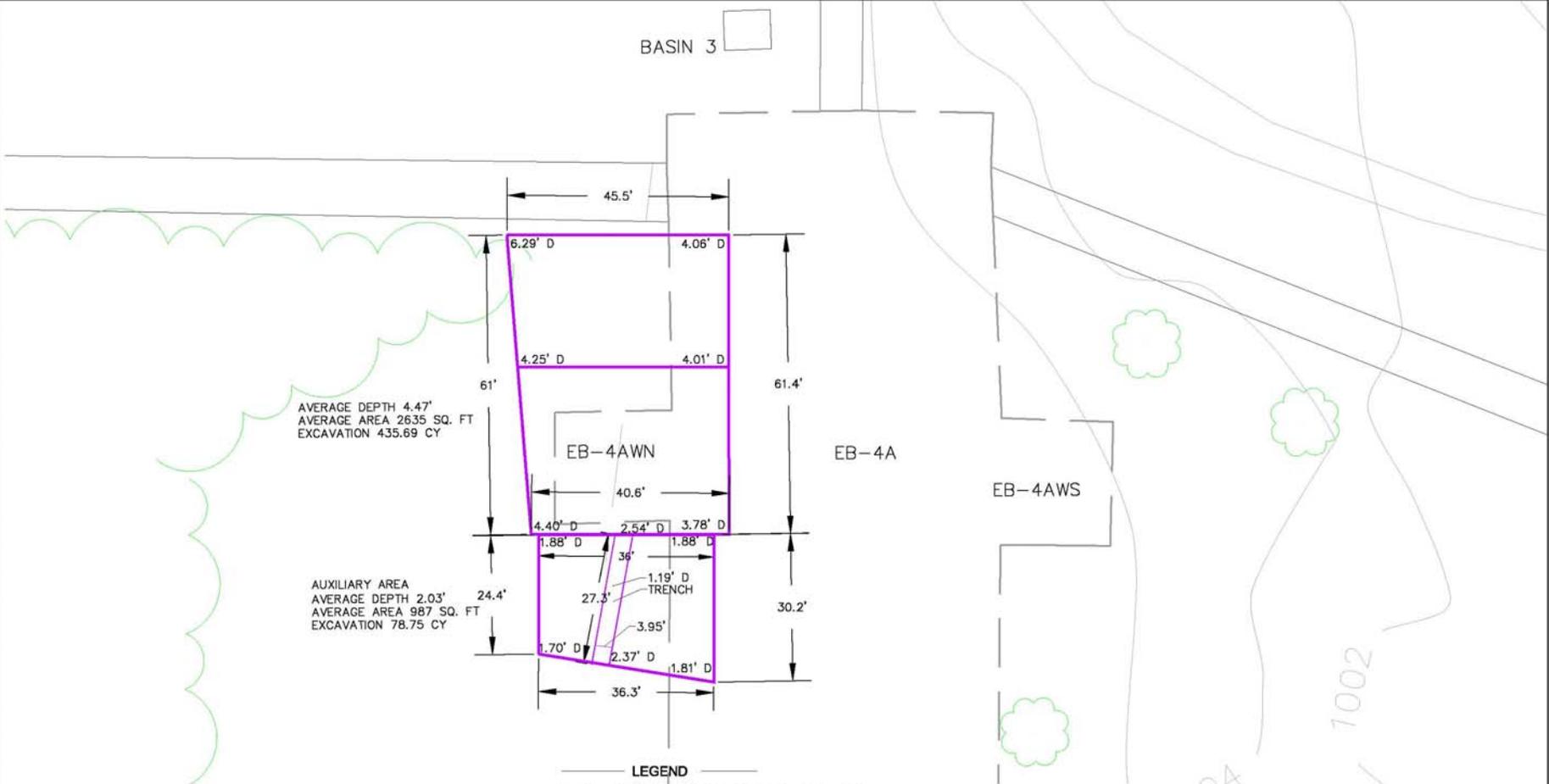
URS			
RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO			
REMEDICATION OF SUB-SLAB SOILS FIELD SKETCH OF EXCAVATION AREA BUILDING DB-4 LOAD LINE 2			
DRAWN BY: JSC	CHECKED BY: BP	PROJECT No: 13812319	DATE: 08/16/10
		FIGURE No: D-1	





URS			
RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO			
REMEDICATION OF SUB-SLAB SOILS FIELD SKETCH EXCAVATION AREA BUILDING EB-4 LOAD LINE 3			
DRAWN BY: JSC	CHECKED BY: BP	PROJECT No: 13812319	DATE: 08/16/10
		FIGURE No: D-3	

BASIN 3

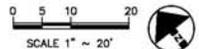


AVERAGE DEPTH 4.47'
 AVERAGE AREA 2635 SQ. FT
 EXCAVATION 435.69 CY

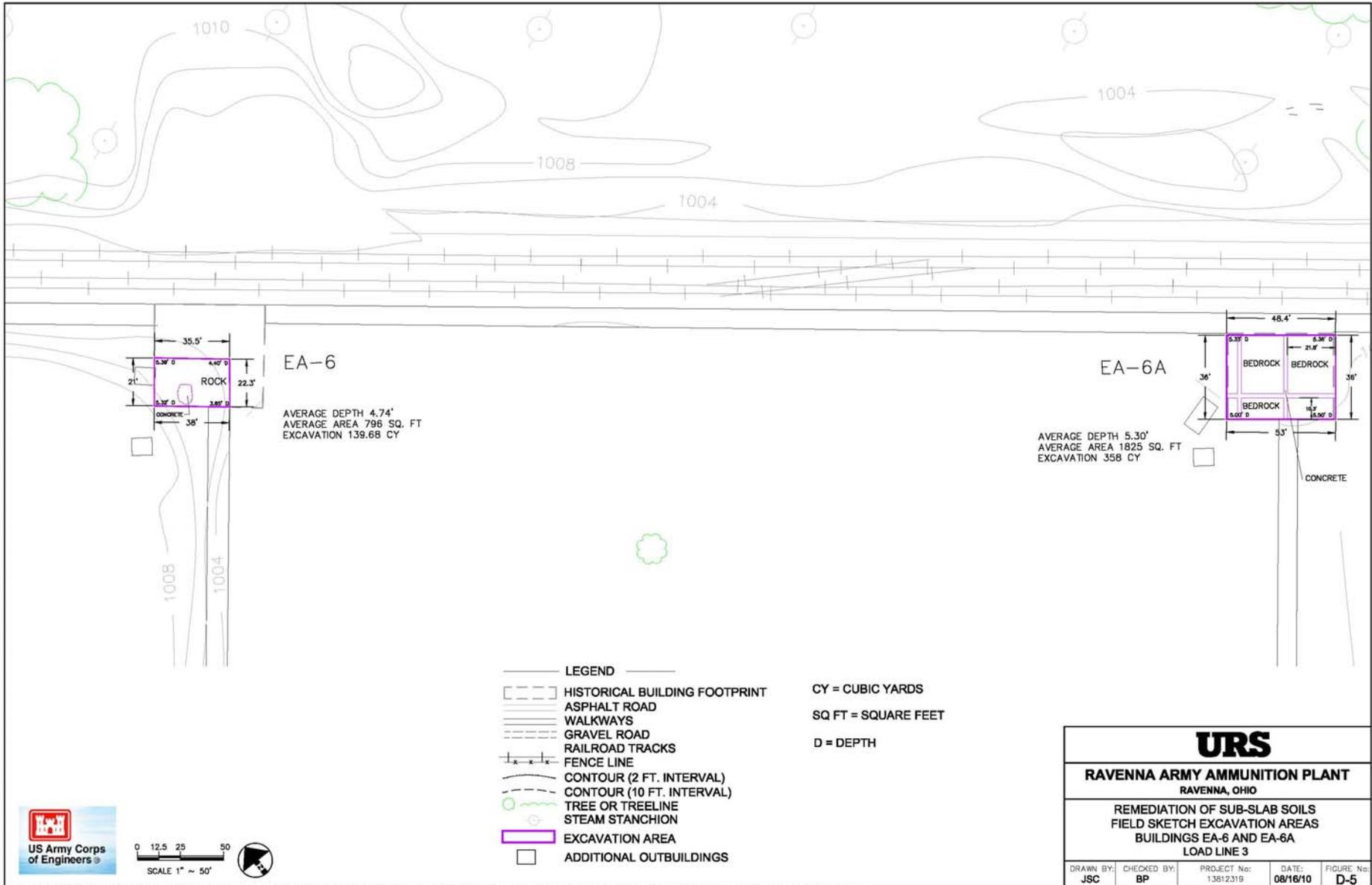
AUXILIARY AREA
 AVERAGE DEPTH 2.03'
 AVERAGE AREA 987 SQ. FT
 EXCAVATION 78.75 CY

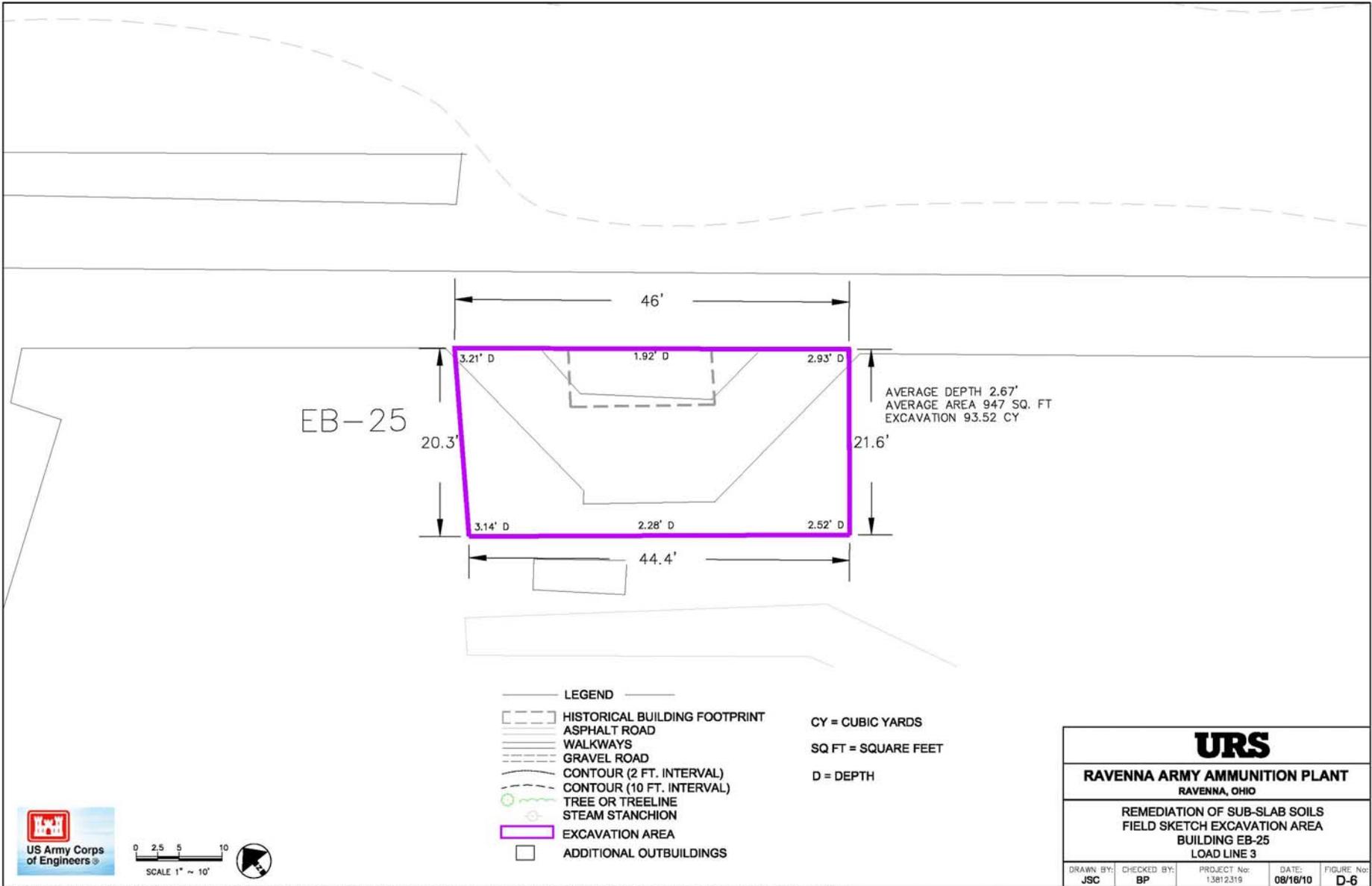
- LEGEND
- HISTORICAL BUILDING FOOTPRINT
 - ASPHALT ROAD
 - WALKWAYS
 - GRAVEL ROAD
 - CONTOUR (2 FT. INTERVAL)
 - CONTOUR (10 FT. INTERVAL)
 - TREE OR TREELINE
 - STEAM STANCHION
 - EXCAVATION AREA
 - ADDITIONAL OUTBUILDINGS

CY = CUBIC YARDS
 SQ FT = SQUARE FEET
 D = DEPTH



URS			
RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO			
REMEDICATION OF SUB-SLAB SOILS FIELD SKETCH EXCAVATION AREA BUILDING EB-4A LOAD LINE 3			
DRAWN BY: JSC	CHECKED BY: BP	PROJECT No: 13812319	DATE: 07/29/10
		FIGURE No: D-4	





APPENDIX E
Field Screening Data

Table E-1
TNT Field Screening
Laboratory Calculations
Ravenna Army Ammunition Plant
Ravenna, Ohio

Sample ID	Date Collected	Time Collected	Date Tested	DF	Abs ^{initial}	Abs ^{sample}	Result	TNT Conc. (ppm) (Cleanup Level: 878 ppm)	Comments
LL3EA6-SS-103SN-0001-SO	6/4/2010	1353	6/4/2010	1	0.016	0.079	0.46	ND	Light Yellow
LL3EA6-SS-103SN-0002-SO	6/4/2010	1338	6/4/2010	1	0.002	0.020	0.37	ND	
LL3EA6-SS-103SN-0003-SO	6/4/2010	1330	6/4/2010	1	0.234	0.471	-14.40	ND	Dark Yellow
LL3EA6-SS-103SN-0004-SO	6/4/2010	1349	6/4/2010	1	0.000	0.019	0.59	ND	
LL3EA6-SS-103SN-0005-SO	6/4/2010	1345	6/4/2010	1	0.009	0.229	5.98	6.0	
LL3EA6-SS-103SN-0005-SO DUP	6/4/2010	1345	6/4/2010	1	0.003	0.189	5.48	5.5	
LL3EA6A-SS-104SN-0001-SO	6/7/2010	1246	6/7/2010	1	0.003	0.021	0.28	ND	
LL3EA6A-SS-104SN-0002-SO	6/7/2010	1235	6/7/2010	1	0.011	0.177	4.12	4.1	Light Pink
LL3EA6A-SS-104SN-0003-SO	6/7/2010	1229	6/7/2010	1	0.286	2.985	57.00	57.0	Light Pink, Merlot
LL3EA6A-SS-104SN-0003-SO DIL 1	6/7/2010	1229	6/7/2010	10	0.032	2.876	850.77	851	
LL3EA6A-SS-104SN-0003-SO DIL 2	6/7/2010	1229	6/7/2010	50	0.013	2.587	3924.15	3,924	
LL3EA6A-SS-104SN-0003-SO DIL 3	6/7/2010	1229	6/7/2010	100	0.008	2.384	7281.73	7,282	
LL3EA6A-SS-104SN-0003-SO DIL 4	6/7/2010	1229	6/7/2010	200	0.004	2.310	14204.33	14,204	
LL3EA6A-SS-104SN-0003-SO DIL 5	6/7/2010	1229	6/7/2010	400	0.008	1.475	17869.97	17,870	
LL3EA6A-SS-104SN-0003-SO DIL 6	6/7/2010	1229	6/7/2010	800	0.007	0.517	12111.46	12,111	
LL3EA6A-SS-104SN-0004-SO	6/7/2010	1242	6/7/2010	1	0.007	0.023	-0.15	ND	
LL3EA6A-SS-104SN-0005-SO	6/7/2010	1534	6/7/2010	1	0.006	0.017	-0.22	ND	
LL3EA6A-SS-104SN-0006-SO	6/7/2010	1506	6/7/2010	1	0.000	0.004	0.12	ND	
LL3EA6A-SS-104SN-0007-SO	6/7/2010	1530	6/7/2010	1	0.012	0.020	-0.87	ND	
LL3EA6A-SS-104SN-0008-SO	6/7/2010	1538	6/7/2010	1	0.005	0.014	-0.19	ND	
LL3EA6A-SS-104SN-0009-SO	6/7/2010	1640	6/7/2010	1	0.007	0.075	1.46	1.5	Light Orange
LL3EA6A-SS-104SN-0009-SO DUP	6/7/2010	1640	6/7/2010	1	0.002	0.090	2.54	2.5	
LL3EB25-SS-105SN-0001-SO	6/8/2010	1415	6/8/2010	1	0.018	0.172	3.10	3.1	Light Pink
LL3EB25-SS-105SN-0002-SO	6/8/2010	1425	6/8/2010	1	0.016	0.025	-1.21	ND	
LL3EB25-SS-105SN-0003-SO	6/8/2010	1447	6/8/2010	1	0.007	0.022	-0.19	ND	
LL3EB25-SS-105SN-0004-SO	6/8/2010	1433	6/8/2010	1	0.015	0.022	-1.18	ND	
LL3EB25-SS-105SN-0005-SO	6/8/2010	1443	6/8/2010	1	0.012	0.119	2.20	2.2	
LL3EB25-SS-105SN-0006-SO	6/8/2010	1445	6/8/2010	1	0.006	0.008	-0.50	ND	
LL3EB25-SS-105SN-0006-SO DUP	6/8/2010	1445	6/8/2010	1	0.003	0.005	-0.22	ND	
LL3EB4A-SS-106SN-0001-SO	6/10/2010	1410	6/10/2010	1	0.012	0.124	2.35	2.4	
LL3EB4A-SS-106SN-0001-SO DUP	6/10/2010	1410	6/10/2010	1	0.006	0.080	1.73	1.7	
LL3EB4A-SS-106SN-0002-SO	6/10/2010	1419	6/10/2010	1	0.005	0.024	0.12	ND	
LL3EB4A-SS-106SN-0003-SO	6/10/2010	1439	6/10/2010	1	0.005	0.112	2.85	2.8	Light pink
LL3EB4A-SS-106SN-0004-SO	6/10/2010	1426	6/10/2010	1	0.022	0.212	3.84	3.8	Light pink
LL3EB4A-SS-106SN-0005-SO	6/10/2010	1446	6/10/2010	1	0.106	2.837	74.71	74.7	Light orange/merlot
LL3EB4A-SS-106SN-0005-SO DIL 1	6/10/2010	1446	6/10/2010	50	0.005	0.262	374.61	374.6	
LL3EB4A-SS-106SN-0006-SO	6/10/2010	1500	6/10/2010	1	0.039	1.440	39.75	39.8	Light orange/red
LL3EB4A-SS-106SN-0006-SO DIL 1	6/10/2010	1500	6/10/2010	10	0.007	0.311	87.62	87.6	
LL3EB4A-SS-107SN-0001-SO	6/14/2010	1214	6/14/2010	1	0.004	0.028	0.37	ND	
LL3EB4A-SS-107SN-0002-SO	6/14/2010	1230	6/14/2010	1	0.002	0.012	0.12	ND	
LL3EB4A-SS-107SN-0003-SO	6/14/2010	1223	6/14/2010	1	0.008	0.026	-0.19	ND	
LL3EB4A-SS-108SN-0001-SO	6/14/2010	1625	6/14/2010	1	0.003	0.010	-0.06	ND	
LL3EB4A-SS-108SN-0002-SO	6/14/2010	1636	6/14/2010	1	0.008	0.053	0.65	ND	
LL3EB4A-SS-108SN-0003-SO	6/14/2010	1639	6/14/2010	1	0.032	3.036	90.03	90.0	
LL3EB4A-SS-108SN-0003-SO DIL 1	6/14/2010	1639	6/14/2010	10	0.003	1.132	346.75	346.7	
LL3EB4A-SS-108SN-0003-SO DIL 2	6/14/2010	1639	6/14/2010	50	0.002	0.222	331.27	331.3	
LL3EB4A-SS-108SN-0004-SO	6/14/2010	1632	6/14/2010	1	0.005	0.040	0.62	ND	
LL3EB4A-SS-107SN-0001-SO DUP	6/14/2010	1214	6/14/2010	1	0.004	0.025	0.28	ND	

Table E-1
TNT Field Screening
Laboratory Calculations
Ravenna Army Ammunition Plant
Ravenna, Ohio

Sample ID	Date Collected	Time Collected	Date Tested	DF	Abs ^{-initial*}	Abs ^{-sample*}	Result	TNT Conc. (ppm) (Cleanup Level: 1646 ppm)	Comments
LL3EB4-SS-109SN-0001-SO	6/15/2010	1240	6/15/2010	1	0.008	0.035	0.09	ND	
LL3EB4-SS-109SN-0002-SO	6/15/2010	1215	6/15/2010	1	0.005	0.013	-0.22	ND	
LL3EB4-SS-109SN-0003-SO	6/15/2010	1230	6/15/2010	1	0.011	0.082	1.18	1.2	
LL3EB4-SS-109SN-0004-SO	6/15/2010	1254	6/15/2010	1	0.076	3.002	83.53	83.5	
LL3EB4-SS-109SN-0004-SO DIL 1	6/15/2010	1254	6/15/2010	5	0.017	1.175	171.36	171.4	
LL3EB4-SS-109SN-0004-SO DIL 2	6/15/2010	1254	6/15/2010	10	0.009	0.611	178.02	178.0	
LL3EB4-SS-109SN-0005-SO	6/15/2010	1310	6/15/2010	1	0.278	2.906	55.54	55.5	
LL3EB4-SS-109SN-0005-SO DIL 1	6/15/2010	1310	6/15/2010	10	0.009	0.521	150.15	150.2	
LL3EB4-SS-109SN-0006-SO	6/15/2010	1320	6/15/2010	1	0.204	3.023	68.33	68.3	
LL3EB4-SS-109SN-0006-SO DIL 1	6/15/2010	1320	6/15/2010	5	0.043	1.837	257.74	257.7	
LL3EB4-SS-109SN-0006-SO DIL 2	6/15/2010	1320	6/15/2010	10	0.025	0.923	254.80	254.8	
LL3EB4-SS-109SN-0006-SO DIL 3	6/15/2010	1320	6/15/2010	20	0.015	0.462	248.92	248.9	
LL3EB4-SS-109SN-0007-SO	6/15/2010	1331	6/15/2010	1	0.009	0.090	1.67	1.7	
LL3EB4-SS-109SN-0002-SO DUP	6/15/2010	1215	6/15/2010	1	0.001	0.008	0.12	ND	
LL3EB4-SS-110SN-0001-SO	6/16/2010	1033	6/16/2010	1	0.009	0.030	-0.19	ND	
LL3EB4-SS-110SN-0001-SO DUP	6/16/2010	1033	6/16/2010	1	0.009	0.022	-0.43	ND	
LL3EB4-SS-110SN-0002-SO	6/16/2010	1034	6/16/2010	1	0.109	2.889	75.94	75.9	
LL3EB4-SS-110SN-0002-SO DIL 1	6/16/2010	1034	6/16/2010	10	0.019	0.626	170.28	170.3	
LL3EB4-SS-110SN-0003-SO	6/16/2010	1053	6/16/2010	1	0.018	0.062	-0.31	ND	
LL3EB4-SS-110SN-0004-SO	6/16/2010	1106	6/16/2010	1	0.060	2.874	81.55	81.5	
LL3EB4-SS-110SN-0004-SO DIL 1	6/16/2010	1106	6/16/2010	10	0.012	0.484	134.98	135.0	
LL3EB4-SS-110SN-0005-SO	6/16/2010	1124	6/16/2010	1	0.019	0.568	15.23	15.2	
LL2DB10-SS-111SN-0001-SO	6/22/2010	1050	6/22/2010	1	0.076	3.011	83.81	83.8	
LL2DB10-SS-111SN-0001-SO DIL 1	6/22/2010	1050	6/22/2010	10	0.012	2.082	629.72	83.8	
LL2DB10-SS-111SN-0001-SO DIL 2	6/22/2010	1050	6/22/2010	100	0.003	0.231	678.02	83.8	
LL2DB10-SS-111SN-0002-SO	6/22/2010	1053	6/22/2010	1	0.034	0.218	2.54	2.5	Light pink
LL2DB10-SS-111SN-0003-SO	6/22/2010	1100	6/22/2010	1	0.038	0.349	6.10	6.1	Light pink/peach
LL2DB10-SS-111SN-0004-SO	6/22/2010	1038	6/22/2010	1	0.014	0.281	6.97	7.0	Light pink
LL2DB10-SS-111SN-0005-SO	6/22/2010	1045	6/22/2010	1	0.087	2.866	77.96	78.0	
LL2DB10-SS-111SN-0005-SO DIL 1	6/22/2010	1045	6/22/2010	10	0.015	0.474	128.17	128.2	
LL2DB10-SS-111SN-0006-SO	6/22/2010	1030	6/22/2010	1	0.241	2.961	61.83	61.8	Dark Red - Pipe area
LL2DB10-SS-111SN-0006-SO DIL 1	6/22/2010	1030	6/22/2010	10	0.034	3.021	893.19	893.2	
LL2DB10-SS-111SN-0006-SO DIL 2	6/22/2010	1030	6/22/2010	100	0.006	1.001	3024.77	3024.8	
LL2DB10-SS-111SN-0006-SO DIL 3	6/22/2010	1030	6/22/2010	200	0.003	0.511	3089.78	3089.8	
LL2DB10-SS-111SN-0007-SO	6/22/2010	1020	6/22/2010	1	0.025	0.294	6.01	6.0	Light blue, turned pink
LL2DB10-SS-111SN-0007-SO DUP	6/22/2010	1020	6/22/2010	1	0.015	0.160	3.10	3.1	
LL2DB4-SS-112SN-0001-SO	6/23/2010	1007	6/23/2010	1	0.002	0.020	0.37	ND	
LL2DB4-SS-112SN-0001-SO DUP	6/23/2010	1007	6/23/2010	1	0.002	0.029	0.65	ND	
LL2DB4-SS-112SN-0002-SO	6/23/2010	1320	6/23/2010	1	0.008	0.028	-0.12	ND	
LL2DB4-SS-112SN-0003-SO	6/23/2010	1337	6/23/2010	1	0.003	0.016	0.12	ND	
LL2DB4-SS-112SN-0004-SO	6/24/2010	1030	6/24/2010	1	0.270	2.918	56.90	56.9	
LL2DB4-SS-112SN-0004-SO DIL 1	6/24/2010	1030	6/24/2010	10	0.007	0.600	177.09	177.1	
LL2DB4-SS-112SN-0005-SO	6/24/2010	1035	6/24/2010	1	0.015	0.041	-0.59	ND	
LL2DB4-SS-112SN-0006-SO	6/24/2010	1045	6/24/2010	1	0.024	0.157	1.89	1.9	
LL2DB4-SS-112SN-0006-SO DUP	6/24/2010	1045	6/24/2010	1	0.018	0.198	3.90	3.9	
LL2DB4-SS-112SN-0007-SO	6/24/2010	1340	6/24/2010	1	0.086	2.979	81.58	81.6	
LL2DB4-SS-112SN-0007-SO DIL 1	6/24/2010	1340	6/24/2010	10	0.010	0.912	269.97	270.0	
LL2DB4-SS-112SN-0007-SO DIL 2	6/24/2010	1340	6/24/2010	20	0.005	0.441	260.68	260.7	

APPENDIX F
Chain of Custody/Freight Bills

COC No. A 01153

158 Starlite Drive

Marietta, OH 45750



Phone: 740-373-4071

Fax: 740-373-4835

CHAIN-OF-CUSTODY RECORD

Company Name: VLS Corp		Project Contact: Peg Scholer		Contact Phone #: 216-222-2400	
Turn Around Requirements: NORMAL		Location: RVAAP			
Project ID: 13023194000		Signature: <i>Mike Sloop</i>			
Sample I.D. No.	Comp	Grab	Date	Time	Matrix*
LL355-295M-2013-SD	X		11/10/10	1525	S
LL355-295M-2014-SD	X		↓	1525	S
LL355-295M-2014-ER		X	↓	1700	W
Hold <input type="checkbox"/> NUMBER OF CONTAINERS: 1 Explosives <input type="checkbox"/> Metals <input type="checkbox"/> SVCS <input type="checkbox"/> PCBs <input type="checkbox"/> Hex Chrome <input type="checkbox"/>					
ADDITIONAL REQUIREMENTS: Custom Analysis list - Contact Peg Scholer *Metals contained for LL355-295M-2014-ER has no preservative					
Program: <input type="checkbox"/> CWA <input type="checkbox"/> RCRA <input type="checkbox"/> DOD <input type="checkbox"/> AFCEE <input type="checkbox"/> Other					
TOTAL # (LAB USE)					
Relinquished by: (Signature)		Date		Time	
Relinquished by: <i>Mike Sloop</i>		Date: 11/10/10		Time: 1900	
Received by: (Signature)		Date		Time	
Received by: (Signature)		Date		Time	
Remarks:					

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

COC No. A 15858

158 Starlite Drive
Marietta, OH 45750



Phone: 740-373-4071
Fax: 740-373-4835

CHAIN-OF-CUSTODY RECORD

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	Explosives	Masks + Hxrc	PCBs	SVCS	TLP SVCS	TLP MTKIS	Ttl PCBs	Date	Time	Received by: (Signature)
LL255-315M-1286-50	X		6-22-10	1338	S	1	X	X	X	X	X						
LL255-284M-1287-50	X		1338		S	1	X	X	X	X	X	BP	6-22-10				
LL255-315M-1288-50	X		1338		S	1	X	X	X	X	X						
LL255-315M-1289-50	X		1325		S	1	X	X	X	X	X						
LL255-315M-1290-50	X		1330		S	1	X	X	X	X	X						
LL255-284M-1243-50	X		6-23-10	1445/1420	S	1	X	X	X	X	X						
LL255-284M-1285-50	X		1430/1345		S	1	X	X	X	X	X						
LL255-284M-1285-50	X		1000		W	8	X	X	X	X	X						
LL255-284M-1285-50	X		6-24-10	1000	W	8	X	X	X	X	X						
LL2 Stackpile	X		6-24-10	1430	S	1	X	X	X	X	X						
TOTAL # (LAB USE)																	

Company Name: **URS**

Project Contact: **Peg Schuler**

Turn Around Requirements: **Norm**

Project ID: **13812319.40000**

Sampler (print): **M. Shoop, B. Pratt**

Signature: *[Signature]*

Contact Phone #: **216-622-2400**

Location: **RVAAP**

Program

CWA

RCRA

DOD

AFCEE

Other

ADDITIONAL REQUIREMENTS

Relinquished by: *[Signature]* Date: **6-24-10** Time: **1800**

Relinquished by: *[Signature]* Date: _____ Time: _____

Microbac OVD
Received: 06/25/2010 10:31
BY: BRENDA GREENWALT

221000007170

Remarks:

Brenda Greenwalt

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

CHAIN-OF-CUSTODY RECORD

Company Name: VCS Corporation 1375 Euclid Ave Cleveland OH 44115		Contact Phone #: 216-622-2400		Location: EVAMP 224 Sub 54b																																	
Project Contact: Peg Schwler		Turn Around Requirements:		Project ID: 13812319-6000																																	
Sampler (print): Stan Sweng		Signature: <i>Stan Sweng</i>		Project ID: 13812319-6000																																	
Sample I.D. No.	Comp	Grab	Date	Time	Matrix*																																
224-SFWC-001-A-50	X	X	14/Mar/08	1605	Soil																																
224-SFWC-002-B-50				1544																																	
224-SFWC-003-C-50				1535																																	
224-SFWC-004-D-50				1520																																	
224-SFWC-005-E-50				1630																																	
224-SFWC-TB		X	14/Mar/08	1630	Water																																
<table border="1"> <tr> <th>Hold</th> <th>VOC 8260B</th> <th>SVC 8270 C</th> <th>Exp 8330 B</th> <th>TRM Metals (0010/7000)</th> <th>RCB 8082</th> <th>Topellants</th> <th>Foschidas</th> <th>Heshchidas</th> <th>Relinquished by: (Signature)</th> <th>Date</th> <th>Time</th> <th>Received by: (Signature)</th> <th>Date</th> <th>Time</th> <th>Remarks:</th> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td><i>Stan Sweng</i></td> <td>3-18-08</td> <td>1630</td> <td><i>Stan Sweng</i></td> <td>3-18-08</td> <td>1630</td> <td>191 plastic ME 1402 glass VOC</td> </tr> </table>						Hold	VOC 8260B	SVC 8270 C	Exp 8330 B	TRM Metals (0010/7000)	RCB 8082	Topellants	Foschidas	Heshchidas	Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Remarks:		X	X	X	X	X	X	X	X	<i>Stan Sweng</i>	3-18-08	1630	<i>Stan Sweng</i>	3-18-08	1630	191 plastic ME 1402 glass VOC
Hold	VOC 8260B	SVC 8270 C	Exp 8330 B	TRM Metals (0010/7000)	RCB 8082	Topellants	Foschidas	Heshchidas	Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Remarks:																						
	X	X	X	X	X	X	X	X	<i>Stan Sweng</i>	3-18-08	1630	<i>Stan Sweng</i>	3-18-08	1630	191 plastic ME 1402 glass VOC																						
<table border="1"> <tr> <th>Program</th> <th>ADDITIONAL REQUIREMENTS</th> </tr> <tr> <td> <input type="checkbox"/> CWA <input type="checkbox"/> RCRA <input type="checkbox"/> DOD <input type="checkbox"/> AFCEE <input checked="" type="checkbox"/> Other <u>USACE</u> </td> <td>USACE Louisville</td> </tr> <tr> <td></td> <td>Trap Bank</td> </tr> </table>						Program	ADDITIONAL REQUIREMENTS	<input type="checkbox"/> CWA <input type="checkbox"/> RCRA <input type="checkbox"/> DOD <input type="checkbox"/> AFCEE <input checked="" type="checkbox"/> Other <u>USACE</u>	USACE Louisville		Trap Bank																										
Program	ADDITIONAL REQUIREMENTS																																				
<input type="checkbox"/> CWA <input type="checkbox"/> RCRA <input type="checkbox"/> DOD <input type="checkbox"/> AFCEE <input checked="" type="checkbox"/> Other <u>USACE</u>	USACE Louisville																																				
	Trap Bank																																				
TOTAL # (LAB USE)																																					

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

1 From Please print and press hard.
 Date 6-24-10 Sender's FedEx Account Number 2030-0926-7
 Sender's Name B. Pratt Phone (216) 622-2400
 Company URS CORP
 Address 1375 EUCLID AVE Dept./Floor/Suite/Room _____
 City CLEVELAND State OH ZIP 44115-1826

2 Your Internal Billing Reference
 First 24 characters will appear on invoice. 1381231940000

3 To
 Recipient's Name Sample Receiving Phone (608) 356-2260
 Company CT Labs

Recipient's Address 1230 Lange Court Dept./Floor/Suite/Room _____
 We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address _____
 To request a package be held at a specific FedEx location, print FedEx address here.
 City Baraboo State WI ZIP 53913
 0355610015

4a Express Package Service Packages up to 150 lbs.
 FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.
 FedEx First Overnight Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
 FedEx 2Day Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx Express Saver Third business day.* Saturday Delivery NOT available.
 * To most locations.

4b Express Freight Service Packages over 150 lbs.
 FedEx 1Day Freight* Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx 2Day Freight Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx 3Day Freight Third business day.** Saturday Delivery NOT available.
 * Call for Confirmation. ** To most locations.

5 Packaging
 FedEx Envelope*
 FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
 FedEx Box
 FedEx Tube
 Other
 * Declared value limit \$500.

6 Special Handling Include FedEx address in Section 3.
 SATURDAY Delivery NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
 HOLD Weekday at FedEx Location NOT Available for FedEx First Overnight.
 HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
 Does this shipment contain dangerous goods? One box must be checked.
 No Yes As per attached Shipper's Declaration. Yes Shipper's Declaration not required. Dry Ice Dry Ice, 9, UN 1845 _____ x _____ kg
 Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below.
 Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check
 FedEx Acct. No. _____ Exp. Date _____
 Credit Card No. _____

Total Packages 1 Total Weight _____ Total Declared Value* \$ 0.00

*Our liability is limited to \$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.
 No Signature Required Packages may be left without obtaining a signature for delivery.
 Direct Signature Someone at recipient's address may sign for delivery. Fee applies.
 Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.
519
 Rev. Date 10/09-Part #158279-©1994-2006 FedEx-PRINTED IN U.S.A.-SRS



1 From Please print and press hard.
 Date 6-24-10 Sender's FedEx Account Number 2030-0926-7
 Sender's Name Brenda Pratt Phone (216) 622-2400
 Company URS CORP
 Address 1375 EUCLID AVE Dept./Floor/Suite/Room _____
 City CLEVELAND State OH ZIP 44115-1826

2 Your Internal Billing Reference
 First 24 characters will appear on invoice. 1381231940000

3 To
 Recipient's Name Microbac Sample Receiving Phone (800) 373-4071
 Company Microbac Labs

Recipient's Address 158 Starlite Drive Dept./Floor/Suite/Room _____
 We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address _____
 To request a package be held at a specific FedEx location, print FedEx address here.
 City Maricetta State OH ZIP 45750
 0355610015

4a Express Package Service Packages up to 150 lbs.
 FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.
 FedEx First Overnight Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
 FedEx 2Day Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx Express Saver Third business day.* Saturday Delivery NOT available.
 * To most locations.

4b Express Freight Service Packages over 150 lbs.
 FedEx 1Day Freight* Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx 2Day Freight Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx 3Day Freight Third business day.** Saturday Delivery NOT available.
 * Call for Confirmation. ** To most locations.

5 Packaging
 FedEx Envelope*
 FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
 FedEx Box
 FedEx Tube
 Other
 * Declared value limit \$500.

6 Special Handling Include FedEx address in Section 3.
 SATURDAY Delivery NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
 HOLD Weekday at FedEx Location NOT Available for FedEx First Overnight.
 HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
 Does this shipment contain dangerous goods? One box must be checked.
 No Yes As per attached Shipper's Declaration. Yes Shipper's Declaration not required. Dry Ice Dry Ice, 9, UN 1845 _____ x _____ kg
 Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. Cargo Aircraft Only

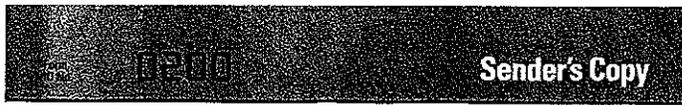
7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below.
 Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check
 FedEx Acct. No. 157805967 Exp. Date _____
 Credit Card No. _____

Total Packages 2 Total Weight _____ Total Declared Value* \$ 0.00

*Our liability is limited to \$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.
 No Signature Required Packages may be left without obtaining a signature for delivery.
 Direct Signature Someone at recipient's address may sign for delivery. Fee applies.
 Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.
519





1 From Please print and press hard.
Date 6-16-10 Sender's FedEx Account Number _____
Sender's Name Brenda Pratt Phone (216) 622-2400
Company URS Corp
Address 1375 Euclid Ave 600
City Cleveland State OH ZIP 44115

2 Your Internal Billing Reference First 24 characters will appear on invoice. 13812319 OPTIMAL 40000

3 To
Recipient's Name Microbac Phone (800) 373-4071
Company Microbac Labs
Recipient's Address 158 Starlite Drive
City Marietta State OH ZIP 45750

4a Express Package Service Packages up to 150 lbs.
 FedEx Priority Overnight Next business morning* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx Standard Overnight Next business afternoon* Saturday Delivery NOT available.
 FedEx First Overnight Earliest next business morning delivery to select locations. Saturday Delivery NOT available.
 FedEx 2Day Second business day** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx Express Saver Third business day** Saturday Delivery NOT available.
* To most locations.

4b Express Freight Service Packages over 150 lbs.
 FedEx 1Day Freight* Next business day** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx 2Day Freight Second business day** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx 3Day Freight Third business day** Saturday Delivery NOT available.
* Call for Confirmation: _____ ** To most locations.

5 Packaging
 FedEx Envelope* FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. FedEx Box FedEx Tube Other
* Declared value limit \$500.

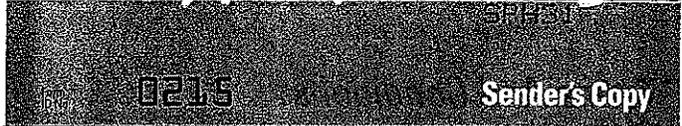
6 Special Handling Include FedEx address in Section 3.
 SATURDAY Delivery NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
 HOLD Weekday at FedEx Location NOT Available for FedEx First Overnight.
 HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
Does this shipment contain dangerous goods?
 No Yes One box must be checked. As per attached Shipper's Declaration. Yes Shipper's Declaration not required.
 Dry Ice Dry Ice, 9 UN 1845 x _____ kg
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below.
 Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check
FedEx Acct. No. 157805967 Exp. Date _____
Total Packages 3 Total Weight _____ Total Declared Value* \$ 0.00
*Our liability is limited to \$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability. FedEx Use Only



8 NEW Residential Delivery Signature Options If you require a signature, check Direct or Indirect.
 No Signature Required Package may be left without obtaining a signature for delivery.
 Direct Signature Anyone at recipient's address may sign for delivery. Fee applies.
 Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.
520

Rev. Date 8/06-Part #158281-©1994-2005 FedEx-PRINTED IN U.S.A. SRY



1 From Please print and press hard.
Date 6/16/10 Sender's FedEx Account Number 2030-0926-7
Sender's Name Jennifer Shepard Phone (216) 622-2400
Company URS CORP
Address 1375 EUCLID AVE
City CLEVELAND State OH ZIP 44115-1826

2 Your Internal Billing Reference First 24 characters will appear on invoice. 13812319 40000

3 To
Recipient's Name Sample Receiving Phone (608) 356-2760
Company CT Laboratories
Recipient's Address 1230 Lange Court
City Baraboo State WI ZIP 53913

4a Express Package Service Packages up to 150 lbs.
 FedEx Priority Overnight Next business morning* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx Standard Overnight Next business afternoon* Saturday Delivery NOT available.
 FedEx First Overnight Earliest next business morning delivery to select locations. Saturday Delivery NOT available.
 FedEx 2Day Second business day** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx Express Saver Third business day** Saturday Delivery NOT available.
* To most locations.

4b Express Freight Service Packages over 150 lbs.
 FedEx 1Day Freight* Next business day** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx 2Day Freight Second business day** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx 3Day Freight Third business day** Saturday Delivery NOT available.
* Call for Confirmation: _____ ** To most locations.

5 Packaging
 FedEx Envelope* FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. FedEx Box FedEx Tube Other
* Declared value limit \$500.

6 Special Handling Include FedEx address in Section 3.
 SATURDAY Delivery NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
 HOLD Weekday at FedEx Location NOT Available for FedEx First Overnight.
 HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
Does this shipment contain dangerous goods?
 No Yes One box must be checked. As per attached Shipper's Declaration. Yes Shipper's Declaration not required.
 Dry Ice Dry Ice, 9 UN 1845 x _____ kg
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below.
 Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check
FedEx Acct. No. _____ Exp. Date _____
Total Packages _____ Total Weight _____ Total Declared Value* \$ _____ .00
*Our liability is limited to \$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.



8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.
 No Signature Required Package may be left without obtaining a signature for delivery.
 Direct Signature Someone at recipient's address may sign for delivery. Fee applies.
 Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.
519

Rev. Date 10/06-Part #158279-©1994-2006 FedEx-PRINTED IN U.S.A. SRS

1 From Please print and press hard. Date 4/10/10 Sender's FedEx Account Number 2030-0926-7 Sender's Name Jennifer Shepard Phone (216) 622-2400 Company URS Corp. Address 1375 Euclid Ave. City Cleveland State OH ZIP 44115-1826

2 Your Internal Billing Reference First 24 characters will appear on invoice. 0355610015

3 To Recipient's Name Sample Receiving Microbac Laboratories, Inc. Phone (800) 373-4071 Company Ohio Valley Division Address 15B Starlite Drive City Marietta State OH ZIP 45750

4a Express Package Service FedEx Priority Overnight Next business morning. FedEx Standard Overnight Next business afternoon. FedEx First Overnight Earliest next business morning.

4b Express Freight Service FedEx 1Day Freight Next business day. FedEx 2Day Freight Second business day. FedEx 3Day Freight Third business day.

5 Packaging FedEx Envelope, FedEx Pak, FedEx Box, FedEx Tube, Other

6 Special Handling and Delivery Signature Options SATURDAY Delivery, No Signature Required, Direct Signature, Indirect Signature. Does this shipment contain dangerous goods?

7 Payment Bill to: Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check. Total Packages 1 Total Weight 5.5 lbs. Total Declared Value \$.00



From Please print and press hard. Date 4/10/10 Sender's FedEx Account Number 2030-0926-7 Sender's Name Jennifer Shepard Phone (216) 622-2400 Company URS CORP. Address 1375 EUCLID AVE. City CLEVELAND State OH ZIP 44115-1826

Your Internal Billing Reference First 24 characters will appear on invoice. 13012319.47000

To Recipient's Name Sample Receiving Microbac Laboratories, Ohio Valley Division Phone (800) 373-4071 Address 15B Starlite Drive City Marietta State OH ZIP 45750

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4b Express Freight Service FedEx 1Day Freight Next business day. FedEx 2Day Freight Second business day. FedEx 3Day Freight Third business day.

5 Packaging FedEx Envelope, FedEx Pak, FedEx Box, FedEx Tube, Other

6 Special Handling SATURDAY Delivery, HOLD Weekday, HOLD Saturday. Does this shipment contain dangerous goods?

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8 Residential Delivery Signature Options No Signature Required, Direct Signature, Indirect Signature. Rev. Date 10/06/Part #158279-0194-2008 FedEx-PRINTED IN U.S.A.-SRS

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Date 6-29-10 Sender's FedEx Account Number 869001 07 0000 (SENDER'S FED EX ACCOUNT NUMBER ONLY)

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4a Express Package Service * To most locations. Packages up to 150 lbs.

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Next business morning.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight**
Next business afternoon.* Saturday Delivery NOT available.
- FedEx First Overnight**
Earliest next business morning delivery to select locations.*
- FedEx 2Day**
Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver**
Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. Packages over 150 lbs.

- FedEx 1Day Freight**
Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. CALL 1.800.352.8897
- FedEx 2Day Freight**
Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 3Day Freight**
Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit \$500.

- FedEx Envelope*
- FedEx Pak*
- FedEx Box
- FedEx Tube
- Other

6 Special Handling and Delivery Signature Options

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- No Signature Required**
Package may be left without obtaining a signature for delivery.
- Direct Signature**
Someone at recipient's address may sign for delivery. Fee applies.
- Indirect Signature**
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

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- Yes** As per attached Shipper's Declaration.
- Yes** Shipper's Declaration not required.
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- Cargo Aircraft Only**

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APPENDIX G
Data Validation and
Chemical Quality Assurance Reports



**U.S. Army Corps of Engineers
Louisville District**

**Ravenna Army Ammunition Plant
Load Lines 2 & 3 June 2010 Sampling
Ravenna, Ohio**

**Final Data Validation Report
Validated Sample Delivery Groups:
L10060255 & L10060743**

September 2011

**Prepared for:
U.S. Army Corps of Engineers
Louisville District
Contract No. W912QR-08-D-0001
Delivery Order 0022**

**Prepared by:
MEC^x, LP
12269 East Vassar Drive
Aurora, Colorado 80014**

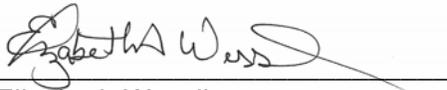


CONTRACTOR STATEMENT OF INDEPENDENT TECHNICAL REVIEW

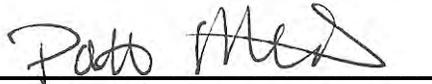
MEC^x, LP (MEC^x) has completed the Data Validation Report for Multiple Sample Delivery Groups from the Ravenna Army Ammunition Plant Load Lines 2 & 3 June 2010 Sampling in Ravenna, Ohio. Notice is hereby given that an independent technical review has been conducted to determine the usability and bias of the analytical data.

Significant concerns and the resolution are as follows:

None



Elizabeth Wessling
Senior Environmental Chemist
MEC^x Independent Technical Review Team Leader



Patti Meeks, Ph.D.
Senior Environmental Chemist
MEC^x Independent Technical Review Team Member

Executive Summary

The overall objective of the project described in this document was to determine if contaminants are present in the soils below the floor slabs of Load Lines 2 and 3. A total of twenty primary, two field duplicate, and two blind field duplicate multi-incremental soil samples and three equipment rinsate samples were collected by URS Corporation in June 2010.

The following analyses were performed for all primary samples by Microbac Laboratories, Inc. (Microbac) in Marietta, Ohio:

- United States Environmental Protection Agency (USEPA) SW-846 Method 6010B and 6020 for eight metals
- USEPA SW-846 Method 7471A for mercury
- USEPA SW-846 Method 8270C for four semivolatile compounds (SVOCs)
- USEPA SW-846 Method 8082 for polychlorinated biphenyls (PCBs)
- USEPA SW-846 Method 8330B for two explosive compounds
- USEPA SW-846 Method 7196A for hexavalent chromium

No data were rejected. All data is usable for its intended purposes as qualified by MEC^X. Specific concerns regarding the data are noted below:

- For the PCB samples validated at Level IV, the confirmation column chromatograms exhibited significantly more matrix interference with unresolved baseline areas than the original chromatograms. In instances where more than one result exists for samples that were reviewed by ADR or validated at Level III, the final data user should review the PCB chromatograms; prior to selecting the final valid results.
- Although required by the method, 7196A, no matrix spike analyses or sample replicate analysis was performed for hexavalent chromium.
- The reporting limits for the following nondetected analytes exceeded the project criteria. Unless otherwise noted below, the MDLs also exceeded the project criteria:
 - Due to dilutions for matrix interference, cadmium in six samples
 - Due to dilutions to report one or more analytes within the linear range of the calibration, all nondetected Aroclor results in four samples
 - All SVOC results in 18 samples
 - RDX in four samples; however, the MDL exceeded the project criteria in only three of these samples
 - 2,4,6-Trinitrotoluene in three samples; however, the MDLs only marginally exceeded the project criteria in these three samples

Acronyms and Abbreviations

ADR	Automated Data Review
°C	Degrees Celsius
CCB	Continuing Calibration Blank
CCC	Calibration Check Compounds
CCV	Continuing Calibration Verification
%D	Percent Difference
DoD	Department of Defense
EDD	Electronic Data Deliverable
FWQAPP	Facility-Wide Quality Assurance Project Plan
GC/MS	Gas Chromatography/Mass Spectrometry
ICSA	Interference Check Sample A
ICSAB	Interference Check Sample AB
ICP	Inductively Coupled Plasma
ICP/MS	Inductively Coupled Plasma/Mass Spectrometer
ICV	Initial Calibration Verification
LCG	Louisville Chemistry Guidance
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MEC ^x	MEC ^x , LP
Microbac	Microbac Laboratories, Inc.
MRL	Method Reporting Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MDL	Method Detection Limit
PCB	Polychlorinated Biphenyl
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
QSM	Quality Systems Manual
RL	Reporting Limit
RPD	Relative Percent Difference
RRF	Relative Response Factor
RSD	Relative Standard Deviation
RVAAP	Ravenna Army Ammunition Plant
SAIC	Science Applications International Corporation
SDG	Sample Delivery Group
SPCC	System Performance Check Compound
SVOC	Semivolatile Organic Compounds
USACE	United State Army Corps of Engineers
USEPA	United State Environmental Protection Agency

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1. INTRODUCTION

1.1 PROJECT OVERVIEW

The overall objective of the project described in this document was to determine if contaminants are present in the soils below the floor slabs of Load Lines 2 and 3. A total of twenty primary, two field duplicate, and two blind field duplicate multi-incremental soil samples and three equipment rinsate samples were collected by URS Corporation in June 2010.

The following analyses were performed for all primary samples by Microbac Laboratories, Inc. (Microbac) in Marietta, Ohio:

- United States Environmental Protection Agency (USEPA) SW-846 Method 6010B and 6020 for eight metals
- USEPA SW-846 Method 7471A for mercury
- USEPA SW-846 Method 8270C for four semivolatile compounds (SVOCs)
- USEPA SW-846 Method 8082 for polychlorinated biphenyls (PCBs)
- USEPA SW-846 Method 8330B for two explosive compounds
- USEPA SW-846 Method 7196A for hexavalent chromium

This report describes findings of data validation performed by MEC^X, LP (MEC^X) on the site samples reported in two sample delivery groups (SDGs) from Microbac.

1.2 PREVIOUS ACTIVITIES AND DATA

The following summary was adapted from the Facility-Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant, Ravenna, Ohio (FWQAPP) prepared by Science Applications International Corporation (SAIC), March 2001.

Located in northeastern Ohio on approximately 21,000 acres, Ravenna Army Ammunitions Plant (RVAAP) was established in 1940 to load, store, and demilitarize conventional artillery ammunition, bombs, mines, fuses and boosters, primers and percussion elements. Originally RVAAP operated as two separate units, the Portage Ordnance Depot and the Ravenna Ordnance Plant. During World War II, a contractor operated the Ravenna Ordnance Depot and the government operated the Portage Ordnance Depot. Ordnance production and storage for World War II continued until August 1945, at which time the facility was renamed the Ravenna Arsenal, and the government assumed control of all operations. Then, from 1951 to 1999, the entire facility was operated by contractors. Ordnance production at the facility was phased out and sent to Plum Brook Ordnance Works in Sandusky, Ohio and Keystone Ordnance Works in Meadville, Pennsylvania. All production at the facility had ceased by 1957 and the plant was placed on standby. In 1961, the plant was operational for seven months, processing and performing explosive melt-out of bombs. After deactivation late in 1961, the facility was renamed RVAAP. From mid-1968 until 1971, the plant was reactivated to load, assemble, and pack munitions on three load lines and two component lines. Operations ceased at Load Lines 1, 2, 3, and 4 in 1971; however, the Lines were reactivated to perform demilitarization

operations for several months in 1973 and 1974. In 1992, RVAAP was again placed on "Inactive" status. Salvage and demolition operations started in 1998 and administrative control of the facility was transferred to the Ohio Army National Guard in 1999.

Since 1978, approximately 20 environmental condition investigations have been performed at RVAAP. Only a portion of these investigations are discussed below.

In 1989, the USEPA contracted Jacobs Engineering to perform a Resource Conservation and Recovery Act Facility Assessment. Thirty-one soli areas of concern were identified during the assessment, 13 of which were recommended for no further action. In 1996 the United States Army Corps of Engineers (USACE) performed a facility-wide preliminary assessment and conducted Phase I remedial investigations at 11 areas of concern. Salvage and demolition operations were performed in 1998. Monitoring wells were installed in 1999 and a Phase II remedial investigation was performed at Load Line 1 by the USACE in 2000.

Operations at the Load Lines consisted of melting and loading energetic compounds into large caliber shells which also produced explosive dust, spills, and vapors that collected on the floors and walls of the buildings; therefore, the buildings and lines were periodically washed down. Wastewater from this process was collected in concrete sumps, then discharged to a drainage ditch or settling pond. Building demolition began in 2001. The slabs and foundations were left intact on Load Lines 2 - 4 in order to prevent water infiltration to the contaminated soils below. Soils and dry sediments outside the footprints of the buildings that were contaminated by the wash-down processes were removed by Shaw Engineering in 2003. Floor slabs at Load Lines 2 -4 were subsequently removed and the soil samples described in this report were collected from beneath the floor slabs at Load Lines 2 and 3.

2. DESCRIPTION OF WORK PERFORMED

This section describes the data verification and data validation procedures used during the evaluation of the site samples reported in SDGs L10060255 and L10060743 from Microbac.

2.1 DATA VALIDATION PROCESS

A total of twenty primary, two field duplicate, and two blind field duplicate multi-incremental soil samples and three equipment rinsate samples were collected in association with the field effort. Level IV validation was performed on 10% of the total number of primary samples collected. Primary samples with associated QA samples were chosen for Level IV validation. All remaining primary samples were assessed by Automated Data Review (ADR).

Table 1. Validated sample identification table

Sample	SDG	Collected	Val Level	Analyses
LL2SS-315M-1286-SO	L10060743	6/22/2010	IV	6010B, 6020, 7196A, 8082, 8270C SIM, 8330B
LL3SS-293M-2005-SO	L10060255	6/4/2010	IV	6010B, 6020, 7196A, 8082, 8270C SIM, 8330B
LL3SS-294M-2008-SO	L10060255	6/8/2010	IV	6010B, 6020, 7196A, 8082, 8270C SIM, 8330B

Table 2. Field duplicate and blind field duplicate identification table

Parent Sample	Duplicate Sample	Blind Duplicate
LL2SS-315M-1286-SO	LL2SS-315M-1288-SO	LL2SS-315M-1289-SO
LL3SS-294M-2008-SO	LL3SS-294M-2010-SO	LL3SS-294M-2011-SO

Data validators assessed results based on the FWQAPP, Quality Assurance Project Plan Addendum for the Sampling of Soils Below Floor Slabs at LLS-2, 3, 4, and Excavation and Transportation of Contaminated Soils to Load Line 4 (QAPP Addendum) prepared by URS 2008, Louisville Chemistry Guideline Version 5 (LCG), Department of Defense Quality Systems Manual for Environmental Laboratories Version 3 (DoD QSM) for hexavalent chromium criteria, the specific EPA methods, the National Functional Guidelines for Organic Data Review (1994), and the National Functional Guidelines for Inorganic Data Review (1994). The following were reviewed for Level IV validation:

- Sample management (collection techniques, sample containers, preservation, handling, transport, chain-of-custody, holding times),
- Calibration data summary forms (initial and continuing),
- Method blank sample results,
- Laboratory control sample (LCS) or LCS/LCS duplicate (LCS/LCSD) recoveries and/or precision,
- Surrogate recoveries (if applicable),
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries and precision,
- Field QA/QC sample results,

- Other QC indicators as applicable,
- Gas Chromatography/Mass Spectrometry (GC/MS) tuning, if a GC/MS is used,
- Internal standards performance,
- Retention time windows,
- Sample results verification,
- Target compound identification,
- Raw data.

All validated samples were initially assessed using ADR and the ADR Library provided by P. Schuler of URS. The ADR library was subsequently modified by MEC^x based upon direction from the USACE Louisville Chemist to resolve conflicts between the various documents and QC criteria.

2.2 DATA VALIDATION QUALIFIERS

Data qualifiers, as defined below, were applied following the FWQAPP, DoD QSM and the LCG:

- U Nondetected at the limit of detection
The analyte was analyzed for but not definitively detected.
- J Estimated
The identification of the analyte is acceptable but the quality assurance criteria indicate that the quantitative values may be outside the normal expected range of precision. Additionally used to identify detects reported below the reporting limit.
- N Identity Presumptive and Tentative
There is presumptive evidence that the analyte is present but it has not been confirmed. There is an indication that the reported analyte is present; however, all quality control requirements necessary for confirmation were not met.
- R Rejected
Data are considered to be rejected and shall not be used for environmental decisions.

2.3 DATA VALIDATION FLAGGING CODES

The qualification codes in the following table may have been used to flag the data described in this document: Sample qualifications are summarized in Appendix B. All qualifications and associated qualification codes have been entered into the electronic data deliverables (EDD) received from the laboratories.

Table 3. Qualification code reference table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient was noncompliant.
R	Calibration RRF was noncompliant.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Not applicable	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	ICPMS tuning was noncompliant
T	Presumed contamination as indicated by the trip blank results.	Not applicable.
+	False positive – reported compound was not present.	False positive – reported compound was not present.
-	False negative – compound was present but not reported.	False negative – compound was present but not reported.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
\$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*II, *III	A deficiency was found that has been described in the "Sample Management," section (*II) or the "Method Analyses" section (*III).	A deficiency was found that has been described in the "Sample Management," section (*II) or the "Method Analyses" section (*III).

3. DATA ACQUISITION ACTIVITIES

3.1 SAMPLE COLLECTION

Multi-incremental soil samples were collected in June 2010. The samples were submitted under chain of custody to the primary laboratory, Microbac.

Unless otherwise noted below, the chains of custody were appropriately signed by both field and/or laboratory personnel with all samples and analyses accounted for, cooler custody seals intact, and within the temperature limits of $4\pm 2^{\circ}\text{C}$. All documentation regarding sample handling as presented in the case narratives, chains of custody, correspondence, and sample condition upon receipt forms was evaluated with the following remaining deficiencies. No further requests were made to the primary contractor or the laboratories, and no data were qualified.

SDG	Issue
L10060320	Although not requested on the chain of custody, hexavalent chromium was reported for LL2SS-295M-2013-SO and LL2SS-295M-2014-SO.
L10060266	One container was received without a sample label. Through the process of elimination, the laboratory determined it was for LL3SS-297M-2017-ER explosives.

3.2 SAMPLE ANALYSIS

Microbac, the primary laboratory, analyzed a total of 20 primary soil, two field duplicate, two blind field duplicate multi-incremental soil samples, and three equipment rinsates by USEPA SW-846 Method 6010B and 6020 for aluminum, antimony, arsenic, barium, cadmium, chromium, lead, and manganese, USEPA SW-846 Method 8270C for benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, and dibenz(a,h)anthracene, USEPA SW-846 Method 8082 for the standard seven PCBs, USEPA SW-846 Method 8330B for RDX and 2,4,6-trinitrotoluene, and USEPA Method 7196A for hexavalent chromium.

3.3 DATA COMPLETENESS

Data completeness for the project described in this report was found to be generally acceptable as no deliverables were missing.

3.4 METHOD REQUIREMENTS

All method preservation requirements were met.

3.5 HOLDING TIME REQUIREMENTS

The soil extraction and analytical holding times for the analyses as defined in FWQAPP Table 4-1 and LCG Appendix D are as follows:

Method	Analysis	Extraction Holding Time	Analysis Holding Time
SW-846 Methods 6010B/6020	Metals	N/A	180 days
SW-846 Method 8270C	SVOCs	14 days	40 days
SW-846 Method 8082	PCBs	14 days	40 days
SW-846 Method 8330B	Explosives	14 days	40 days
SW-846 Method 7196A	Hexavalent chromium	30 days	7 days

All extraction and analytical holding times were met.

3.6 DETECTION LIMIT REQUIREMENTS

The following reporting limits for nondetected analytes exceeded the criteria listed in Tables 3-3 through 3.9 of the FWQAPP and Appendix A of the QAPP Addendum. All samples were assessed, including those samples not validated. Unless otherwise noted below, the MDLs also exceeded the project criteria:

- Due to dilutions for matrix interference, cadmium in six samples
- Due to dilutions to report one or more analytes within the linear range of the calibration, all nondetected Aroclor results in four samples
- All SVOC results in 18 samples
- RDX in four samples; however, the MDL exceeded the project criteria in only three of these samples
- 2,4,6-Trinitrotoluene in three samples; however, the MDLs only marginally exceeded the project criteria in these three samples

The FWQAPP did not list a reporting limit criterion for hexavalent chromium; therefore, it was assessed against the total chromium criterion.

4. DATA QUALITY EVALUATION

This section summarizes the data quality of validated samples for each analytical method evaluated.

4.1 EXPLOSIVES

Twenty primary, two field duplicate, two blind field duplicate soil samples, and three equipment rinsate samples were analyzed by Microbac for two explosive compounds by USEPA SW-846 Method 8330B.

- MDL studies were not evaluated as part of this project.
- Calibration
 - Initial calibration linear regression r values were ≥ 0.990 .
 - The second source initial calibration verification standard (ICV) for both the primary and confirmation calibrations were within the control limits listed in LCG Table 5 of 85-115%.
 - The continuing calibration verification (CCV) standard percent differences (%Ds) were within the control limits listed in LCG Table 5 of $\leq 15\%$.
 - The method reporting limit (MRL) standard recoveries were within the control limit listed in LCG Table 5 of $\pm 30\%$.
 - No MDL check was analyzed; however, as detects were reported in the site samples for both analytes, no qualifications were required.
- Blanks: There were no target compound detects above the control limits listed in LCG Table 5, of one-half the reporting limit for target compounds.
- Blank Spikes and Laboratory Control Samples: Recoveries were within the control limits listed in LCG Appendix C. LCS/LCSD relative percent differences (RPDs) were within the control limit listed in FWQAPP Table 3-1 of $\leq 35\%$.
- Surrogate Recovery: Surrogate results were not assessed for samples analyzed at dilutions of 10x or greater, as they were considered to be diluted out. The remaining surrogate recoveries were within the control limits listed in LCG Table 5 of 50-150%.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on a validated sample. LL3SS-253M-1185-SO was the parent sample for MS/MSD analyses performed in SDG L10060526. Recoveries are not assessed for analytes with native concentrations greater than 4x the spiked amount. The MS/MSD recoveries were within the control limits listed in FWQAPP Table 3-1 of 40-140%. All RPDs were within the laboratory control limit of 35%.

- **Compound Identification:** Compound identification was verified for those samples validated at a Level IV. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification.
- **Compound Quantification and Reported Detection Limits:** Compound quantification was verified for those samples validated at a Level IV. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Any result reported between the MDL and the reporting limit was qualified as estimated, "J."

Due to extract color, LL3SS-293M-2005-SO was analyzed at a 2x dilution and LL2SS-315M-1286-SO was analyzed at a 10x dilution.

The laboratory confirmed detects on a second column. In accordance with LCG, the higher of the two values was accepted and the lower results rejected, "R." Rejected analytes were coded with a "D" qualification code.

- **Target compound confirmation** was performed for detects in the validated samples. Intercolumn %Ds were within the control limit listed in LCG Table 5 of $\leq 40\%$.
- **System Performance:** Review of the raw data indicated no problems with system performance.
- There were no manual integrations performed for data reviewed at Level IV.
- **Field QC Samples:** Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - **Field Blanks and Equipment Rinsates:** There were no field QC samples associated with the validated samples in these SDGs. There were three equipment rinsates collected and analyzed for explosives. There were no detects above the MDL in any of the equipment rinsate samples.
 - **Field Duplicates:** Two field duplicates and two blind field duplicate pairs were collected and analyzed for explosive compounds. Qualifications are not applied to field duplicate outliers as none are specified in the LCG. Except as noted below, RPDs were within the control limits in FWQAPP Table 3-1 of $\leq 50\%$. The RPD is applicable only when the sample results are $\geq 5\times$ the reporting limit. For results less than the reporting limit, a control limit of \pm the reporting limit is used. See Appendix A for comparisons of all samples and analytes.

Table 4. Explosives field duplicate outliers

Primary Sample	Duplicate Sample	Analyte	RPD
LL2SS-315M-1286-SO	LL2SS-315M-1288-SO	RDX	N/A
LL3SS-294M-2008-SO	LL3SS-294M-2010-SO	RDX	N/A

N/A indicates the \pm reporting limit control limit was applied.

Table 5. Explosives Blind field duplicate outliers

Primary Sample	Blind Duplicate	Analyte	RPD
LL3SS-294M-2008-SO	LL3SS-294M-2011-SO	2,4,6-trinitrotoluene	N/A

N/A indicates the \pm reporting limit control limit was applied.

4.2 POLYCHLORINATED BIPHENYLS (PCBS)

Twenty primary, two field duplicate, two blind field duplicate soil samples, and three equipment rinsate samples were analyzed by Microbac for PCBs by USEPA SW-846 Method 8082.

- MDL studies were not evaluated as part of this project.
- Calibration: Calibration criteria were met.
 - Initial calibration relative standard deviations (RSDs) were $\leq 20\%$.
 - The second source initial calibration verification standard (ICV) was within the control limits listed in LCG Table 3 of 85-115%.
 - The continuing calibration verification (CCV) standard %Ds affecting retained sample data were within the control limits listed in LCG Table 3 of $\leq 15\%$.
 - The MRL standard recoveries affecting retained sample data were within the control limits listed in LCG Table 3 of 70-130%.
 - MDL checks standards were analyzed in association with the samples in this SDG. No summary results were provided; however, a representative Aroclor was noted to be detected.
- Blanks: The method blanks had no target compound detects above the control limits listed in LCG Table 3, of one-half the reporting limit for target compounds.
- Blank Spikes and Laboratory Control Samples: LCS recoveries were within the control limits listed in LCG Appendix C of 53-143% and 71-134%, respectively, for Aroclor 1016 and Aroclor 1260, with the exception of one LCSD recovery on column A marginally below the QC limits at 69.3%. As the LCS recovery and the RPD were acceptable, no qualifications were assigned.
- Surrogate Recovery: The surrogate recoveries for the retained sample data were within the control limits listed in LCG Table 3 of 50-150%.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on the samples of these SDGs. The laboratory case narrative indicated this was due to insufficient sample volume. Evaluation of method accuracy and precision was based on the LCS/LCSD results.

- Compound Identification: Compound identification was verified for the sample validated at Level IV. Review of the sample chromatograms, standards, and retention times indicated no problems with target compound identification.
- Compound Quantification and Reported Detection Limits: Compound quantification was verified for the samples validated at a Level IV. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Any result reported between the MDL and the reporting limit was qualified as estimated, "J."

The samples were analyzed on two analytical columns for target compound confirmation; however, the laboratory did not provide summary information for intercolumn %Ds. The reviewer calculated intercolumn %Ds for the detects in the samples validated at Level IV, and all were $\leq 40\%$.

In accordance with LCG, the laboratory reported the higher of the two values unless there was an indication of chromatographic interference in the higher concentration result. For the samples validated at Level IV, the confirmation column chromatograms exhibited significantly more matrix interference with unresolved baseline areas than the original chromatograms; therefore, it was the reviewer's professional opinion that the original lower concentration results were the more valid results. The confirmations results were rejected, "R," and coded with a "D" qualification code as duplicate data.

- System Performance: Review of the raw data indicated no problems with system performance.
- Manual integrations were performed for some Aroclor peaks in the samples validated at Level IV. The manual integrations were deemed acceptable by the reviewer.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: There were no field QC samples associated with the validated samples in these SDGs. There were three equipment rinsates collected and analyzed for PCBs. There were no detects above the MDL in any of the equipment rinsate samples.
 - Field Duplicates: Two field duplicate and two blind filed duplicate pairs were collected and analyzed for PCBs. Rejected results were not assessed. Qualifications are not applied to field duplicate outliers as none are specified in the LCG. Except as noted below, the RPDs were within the control limits in FWQAPP Table 3-1 of $\leq 50\%$. The RPD is applicable only when the sample results are $\geq 5\times$ the reporting limit. For results less than the reporting limit, a control limit of \pm the reporting limit is used. See Appendix A for comparisons of all samples and analytes.

Table 6. PCB blind field duplicate outliers

Primary Sample	Blind Duplicate	Analyte	RPD
LL3SS-294M-2008-SO	LL3SS-294M-2011-SO	Aroclor-1254	N/A

N/A indicates the \pm reporting limit control limit was applied.

4.3 SEMIVOLATILE ORGANIC COMPOUNDS (SVOCS)

Twenty primary, two field duplicate, two blind field duplicate soil samples, and three equipment rinsate samples were analyzed by Microbac for four semivolatile compounds by USEPA Method 8270C.

- MDL studies were not evaluated as part of this project.
- GC/MS Tuning: The DFTPP tunes met the method abundance criteria. The samples were analyzed within 12 hours of the DFTPP injection time.
- Calibration: Calibration criteria affecting sample results were met.
 - Initial calibration average relative response factors (RRFs) and ICV and CCV RRFs were within method control limits of ≥ 0.050 for system performance check compounds (SPCCs). All initial calibration %RSDs were within the method control limits listed in the LCG Table 2, of $\leq 30\%$ for calibration check compounds (CCCs) and $\leq 15\%$ for remaining compounds, or linear regression r values ≥ 0.995 .
 - All second source initial calibration verification standard recoveries were within the control limits listed in the LCG Table 2 of 70-130%.
 - The continuing calibration %Ds affecting sample data were within the method control limits of $\leq 20\%$ listed in the LCG Table 2.
 - MRL standard recoveries affecting sample data were within the control limits of 70-130% listed in the LCG Table 2.
 - MDL checks are required once per quarter per instrument as per LCG Table 5. The quarterly MDL check standard result was not provided.
- Blanks: The method blanks had no target compound detects above the control limits listed in the LCG Table 2 of one-half the reporting limit for target compounds, and no common laboratory contaminants.
- Blank Spikes and Laboratory Control Samples: The LCS recoveries and RPDs for the LCS/LCSD pair were within the control limits listed in the FWQAPP Table 3-1 of 45-135% and $\leq 35\%$, respectively.
- Surrogate Recovery: With exceptions listed in the table below, surrogate recoveries were within the control limits of 50-150% listed in the LCG Table 2. Recoveries are not evaluated for samples analyzed at dilutions of 10x or greater, as the surrogates are

considered diluted out. Results in the table below were qualified as estimated, "UJ," and coded with an "S" qualification code.

Samples qualified for surrogate recovery outliers			
Sample	Surrogate	Recovery	Qualified Analytes
LL3SS-294M-2008-SO	2,4,6-Tribromophenol	24.9%	All target analytes
	2-Fluorophenol	23.2%	
	2-Fluorobiphenyl	17.7%	
	Nitrobenzene-d5	19.0%	
	Phenol-d5	24.4%	
	Terphenyl-D14	22.7%	

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on a sample from these SDGs.
- Internal Standards Performance: The internal standard area counts and retention times affecting sample data were within the LCG Table 2 control limits established by the midpoint initial calibration standard: ± 30 seconds for retention times and -50% / +100% for internal standard areas.
- Compound Identification: Compound identification was verified for the samples validated at Level IV. Review of the sample chromatograms, retention times, and spectra indicated no problems with target compound identification.
- Compound Quantification and Reported Detection Limits: Compound quantification was verified for the samples validated at a Level IV. According to the case narratives for these SDGs, sample LL3SS-293M-2005-SO was analyzed at a 10x dilution and sample LL2SS-315M-1286-SO was analyzed at a 5x dilution due to extract appearance and viscosity. LL2SS-315M-1286-SO was not reanalyzed undiluted in order to report nondetected dibenzo(a,h)anthracene at a lower reporting limit. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Any result reported between the MDL and the reporting limit was qualified as estimated, "J," by the laboratory.
- System Performance: Review of the raw data indicated no problems with system performance.
- Some routine manual integrations were performed for calibration and QC data associated with the sample data. All manual integrations reviewed at Level IV were deemed appropriate by the reviewer.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

- Field Blanks and Equipment Rinsates: There were no field QC samples associated with the validated samples in these SDGs. There were three equipment rinsates collected and analyzed for SVOCs. There were no detects above the MDL in any of the equipment rinsate samples.
- Field Duplicate Samples: Two field duplicate pairs and two blind field duplicate pairs were analyzed in these SDGs. Qualifications are not applied to field duplicate outliers as none are specified in the LCG. Parent sample LL3SS-294M-2008-SO and its associated field duplicate and blind field duplicate had no target compound detects. Parent sample LL2SS-315M-1286-SO and its field duplicate were both analyzed at the same dilution; however, the blind duplicate was not analyzed at a dilution, and results were approximately half those of the parent sample. RPDs were within the control limits in FWQAPP Table 3-1 of $\leq 50\%$. The RPD is applicable only when the sample results are $\geq 5\times$ the reporting limit. For results less than the reporting limit, a control limit of \pm the reporting limit was used. See Appendix A for comparisons of all samples and analytes.

4.4 METALS

Twenty primary, two field duplicate, two blind field duplicate soil samples, and three equipment rinsate samples were analyzed by Microbac for eight metals by USEPA Methods 6010B and 6020.

- MDL studies were not evaluated as part of this project.
- Calibration: Calibration criteria were met.
 - Initial calibration: Linear regression r values were within the control limit listed in the LCG Tables 7 and 9 of ≥ 0.995 .
 - The %RSDs for the ICV and continuing calibration verification (CCV) standards were within the control limit listed in the LCG Table 7 of $< 5\%$. The ICV and CCV recoveries were within the control limits listed in LCG Table 7 of 90-110%.
 - MRL recoveries were within the control limits listed in the LCG Tables 7 and 9 of 70-130%. Samples with results that were greater than $10\times$ the reporting limit were not qualified for MRL recovery outliers as it was the reviewer's professional opinion that at those concentrations, the CCV recoveries were more indicative of the instrument performance relative to the sample.
 - MDL Verification: MDL check samples were analyzed and all target analytes were detected.
- Blanks: The method blanks and continuing calibration blanks (CCBs) had no applicable detects above the control limit listed in the LCG Tables 7 and 9 of one-half the MRL.

- Interference Check Samples: ICP and ICPMS interference check sample A (ICSA) and AB (ICSAB) recoveries were within the control limits listed in QAPP Table 7 of 80-120%. Cadmium was reported in the ICSA associated with LL2SS-315M-1286-SO at -1.55 µg/L. As the iron concentration in LL2SS-315M-1286-SO was sufficient to cause matrix interference, cadmium detected in the sample was qualified as estimated with a potential negative bias, “J-,” and the result was coded with an “I” qualification code.
- Blank Spikes and Laboratory Control Samples: Recoveries were within the control limits listed in LCG Appendix C of 80-120%.
- Laboratory Duplicates: Except as noted below, laboratory duplicate RPDs were within the control limits listed in the FWQAPP Table 3-1 of ≤25% for soil. The duplicate criterion was only applied when the original sample result was nominally ≥5× the reporting limit. In cases where the original sample result was <5× the reporting limit, the reasonable control limit of ± the reporting limit was applied. As per the National Functional Guidelines, all samples in an SDG were qualified for associated RPD outliers.

The RPD for lead in the duplicate analysis of LL2SS-315M-1286-SO was 26%; therefore, lead detected in the sample was qualified as estimated, “J,” and coded with an “E” qualification code. Acceptable laboratory duplicate analyses were performed on ADR reviewed sample LL3SS-295M-2014-SO.

- Matrix Spike/Matrix Spike Duplicate: Except as noted below, recoveries were within the control limits listed in FWQAPP Table 3-1 of 75-125%. Matrix spike control limits were not applied when the native sample concentration exceeded the spiked amount by a factor of four or more. As per the National Functional Guidelines, all samples in an SDG were qualified for associated recovery outliers.

A matrix spike analysis was performed on LL2SS-315M-1286-SO for arsenic and lead. The recovery for lead was 135%; therefore, lead detected in the sample was qualified as estimated, “J,” and the result was coded with a “Q” qualification code. Matrix spike analyses were also performed on ADR reviewed sample LL3SS-295M-2014-SO for the 6010 analytes.

- Serial Dilution: Except as noted below, serial dilution %Ds were within the control limit listed in LCG Table 7 of ≤10%. The serial dilution control limit is only applicable when the original sample concentration is minimally ≥50× the MDL for ICP analytes. As per the National Functional Guidelines, all samples in an SDG were qualified for associated %D outliers.

A serial dilution analysis was performed on LL3SS-293M-2005-SO for arsenic and lead. The %D for arsenic was 10.9%; therefore, arsenic detected in the sample was qualified as estimated with a potential negative bias, “J-,” and the result was coded with an “A”

qualification code. A serial dilution analysis was also performed on ADR reviewed sample LL3SS-295M-2014-SO for the 6010 analytes. The aluminum %D was 10.9%.

- Internal Standards: Internal standard recoveries associated with the samples validated at Level IV were acceptable.
- Sample Result Verification: For Level IV validation, calculations were verified and the sample results reported on the sample result summary were verified against the raw data. Any result reported between the MDL and the reporting limit was qualified as estimated, "J."

Cadmium in LL3SS-294M-2008-SO and arsenic in LL2SS-315M-1286-SO were reported from a 5x dilutions due to matrix interference.

- Manual Integrations: Not applicable to these analyses.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: There were no field QC samples associated with the validated samples in these SDGs. There were three equipment rinsates collected and analyzed for metals. There were detects above the reporting limit for manganese and chromium in LL2SS-284M-1285-ER. There were no other detects above the MDL in the equipment rinsate samples.
 - Field Duplicate Samples: Two field duplicates and two blind field duplicates were analyzed for metals. Qualifications are not applied to field duplicate outliers as none are specified in the LCG. Except as noted in the table below, RPDs were within the control limits in FWQAPP Table 3-1 of ≤50%. The RPD is applicable only when the sample results are ≥5x the reporting limit. For results less than the reporting limit, a control limit of ± the reporting limit is used. See Appendix A for comparisons of all samples and analytes.

Table 7. Metals field duplicate outliers

Primary Sample	Duplicate Sample	Analyte	RPD
LL2SS-315M-1286-SO	LL2SS-315M-1288-SO	arsenic	N/A

N/A indicates that the ± reporting limit control limit was used.

Table 8. Metals blind field duplicate outliers

Primary Sample	Blind Duplicate	Analyte	RPD
LL2SS-315M-1286-SO	LL2SS-315M-1289-SO	chromium	68%
LL3SS-294M-2008-SO	LL3SS-294M-2011-SO	lead	52%

4.5 GENERAL CHEMISTRY - HEXAVALENT CHROMIUM

Twenty primary, two field duplicate, two blind field duplicate soil samples, and three equipment rinsate samples were analyzed by Microbac for hexavalent chromium by USEPA Method 7196A.

- MDL studies were not evaluated as part of this project.
- Calibration: Except as noted below, calibration criteria were met.
 - Initial calibration: The hexavalent chromium linear regression r values were within the control limit listed in the DoD QSM Table B-8 of ≥ 0.995 .
 - The hexavalent chromium ICV and CCV recoveries were within the control limits listed in DoD QSM Tables B-8 of 90-110%.
 - Hexavalent chromium MRL recoveries were within the control limits listed in the LCG Table 7 (for metals) of 70-130%.
 - MDL Verification: MDL verification standards were not analyzed.
- Blanks: Method blanks and CCBs had no applicable detects above the control limit listed in the DoD QSM Table B-8 of one-half the MRL.
- Blank Spikes and Laboratory Control Samples: Hexavalent chromium recoveries were within the laboratory-established control limits of 90-110%.
- Laboratory Duplicates: No laboratory duplicate analyses were performed in association with the samples in the validated SDGs.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD or matrix spike analyses were performed in association with the validated SDGs. The method, 7196A, requires one matrix spike or laboratory duplicate per 20 environmental samples. As no site sample-specific QC analyses were performed, the nondetected results for hexavalent chromium in the validated samples were qualified as estimated, "UJ." The qualified results were coded with a "Q" qualification code. Acceptable MS/MSD analyses were performed on ADR reviewed sample LL3SS-253M-1185-SO.
- Sample Result Verification: For Level IV validation, calculations were verified and the sample results reported on the sample result summary were verified against the raw data. Any result reported between the MDL and the reporting limit was qualified as estimated, "J."
- Manual Integrations: Manual integrations are not applicable to this analysis.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the

field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

- Field Blanks and Equipment Rinsates: There were no field QC samples associated with the validated samples in these SDGs. There were three equipment rinsates collected and analyzed for hexavalent chromium. There were no detects above the MDL in the equipment rinsate samples.
- Field Duplicate Samples: Two field duplicate and two blind field duplicate pairs were analyzed for hexavalent chromium. Qualifications are not applied to field duplicate outliers as none are specified in the LCG. The RPDs were within the control limits in FWQAPP Table 3-1 of $\leq 50\%$. The RPD is applicable only when the sample results are $\geq 5\times$ the reporting limit. For results less than the reporting limit, a control limit of \pm the reporting limit is used. See Appendix A for comparisons of all samples and analytes.

5. DATA USABILITY

5.1 REJECTED DATA

Table 9, below, lists the number of analytes qualified for quality control outliers. A summary of the qualifications applied to the data can be found in Appendix A.

As noted in Table 9 below, no data were rejected. In instances where a data point had multiple results, the reviewer chose the most technically sound result to report and rejected the remaining data points. These rejected data points do not affect data quality or usability and are not included in Table 9.

5.2 DATA USABILITY

As the data validated in this report are not inclusive of the entire field effort, no field completeness value was calculated. As noted in Table 9 below no data were rejected; therefore, all data is usable for its intended purposes as qualified by MEC^X.

The analytical completeness goal for the project that was established in the FWQAPP was 90% for each method. All data from the primary dataset was included in Table 9 below. Data with reporting limits that exceeded the established criteria and data estimated for quality control outliers or for detects between the MDL and the RL were included in Table 9 for informational purposes only. The following table summarizes the calculated completeness for the project. Please note that the laboratory reported one extra analyte, silver, in one sample.

Table 9. Analytical completeness for the entire primary dataset

Analysis	Samples Analyzed	Analytes per Sample	Number of Results					Percent Complete
			Total	Rejected	MDLs /RLs Exceeding Criteria	Estimated for QC Outliers	Estimated for Detects <RL	
Explosives	27	2	93*	0	6/7	29*	2*	100%
PCBs	27	7	282*	0	30/30	62*	1*	100%
SVOCs	27	4	112*	0	72/72	72	26	100%
Metals	27	8	217	0	6/6	45	3	100%
Hexavalent Chromium	27	1	27	0	0/0	3	0	100%
Totals			731	0	114/115	211	32	100%

*Samples not validated at Level IV may have more than one result for each analyte as the laboratory reported both the primary column and confirmation column results. This number is inclusive of all results not rejected as duplicate data.

5.3 PRIMARY AND FIELD DUPLICATE SAMPLE COMPARISON SUMMARY

Primary and field duplicate sample comparisons were considered to be in good agreement. About 8% of the field duplicate and blind field duplicate pair results were above the FWQAPP control limit of 50%, or +/- the reporting limit for results $\leq 5 \times$ the reporting limit. Explosives and metals each had three pair results that exceeded the control limit. The outlier results were split between the two sets of duplicates – LL2SS-315M had three outliers and LL3SS-294M had four outliers.

Rejected data were not included in the comparison and results entered in the “Total Analytes” column below do not include rejected results. The field duplicate and blind field duplicate samples were assessed only by ADR; therefore, before the results could be compared to the primary sample results, the reviewer validated the explosive and PCB data to determine which results (primary column or confirmation column) to report.

Table 10. Primary/field duplicate sample comparison summary

Method	Number of Analytes	Primary/Field Duplicate Pairs	Total Analytes	Results within control limits	Results exceeding control limits
Explosives	2	2	4	2	2
PCBs	7	2	14	14	0
SVOCs	4	2	8	8	0
Metals	8	2	16	15	1
Hexavalent chromium	1	2	2	2	0
Totals			44	41	3

Table 11. Primary/blind field duplicate sample comparison summary

Method	Number of Analytes	Primary/Field Duplicate Pairs	Total Analytes	Results within control limits	Results exceeding control limits
Explosives	2	2	4	3	1
PCBs	7	2	14	13	1
SVOCs	4	2	8	8	0
Metals	8	2	16	14	2
Hexavalent chromium	1	2	2	2	0
Totals			44	40	4

6. CONCLUSIONS AND RECOMMENDATIONS

6.1 SPECIFIC DATA CONCERNS

- For the PCB samples validated at Level IV, the confirmation column chromatograms exhibited significantly more matrix interference with unresolved baseline areas than the original chromatograms. In instances where more than one result exists for samples that were reviewed by ADR or validated at Level III, the final data user should review the PCB chromatograms; prior to selecting the final valid results.
- Although required by the method, 7196A, no matrix spike analyses or sample replicate analysis was performed for hexavalent chromium.
- The reporting limits for the following nondetected analytes exceeded the project criteria. Unless otherwise noted below, the MDLs also exceeded the project criteria:
 - Due to dilutions for matrix interference, cadmium in six samples
 - Due to dilutions to report one or more analytes within the linear range of the calibration, all nondetected Aroclor results in four samples
 - All SVOC results in 18 samples
 - RDX in four samples; however, the MDL exceeded the project criteria in only three of these samples
 - 2,4,6-Trinitrotoluene in three samples; however, the MDLs only marginally exceeded the project criteria in these three samples

6.2 RECOMMENDATIONS

In order to avoid repetition of the issues noted above:

- The laboratory should be requested to perform a hexavalent chromium matrix spike or matrix spike/matrix spike duplicate analyses on at least one site sample in each SDG.

7. REFERENCES

Contract Laboratory Program National Functional Guidelines for Organic Data Review. United States Environmental Protection Agency Contract Laboratory Program (CLP). February 1994.

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Department of Defense Quality Systems Manual for Environmental Laboratories, Version 3. DoD Data Quality Workgroup. January 2006.

Facility-Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant, Ravenna, Ohio. SAIC. March 2001.

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Louisville Chemistry Guideline, Version 5, Environmental Engineering Branch, United States Army Corps of Engineers, Louisville District. June 2002.

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Shell for Analytical Chemistry Requirements. United State Army Corps of Engineers. February 2001.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Revision 6. United States Environmental Protection Agency. February 2007.

APPENDIX A

Qualified Sample Result Forms

Qualification Code Reference Table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient was noncompliant.
R	Calibration RRF was noncompliant.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Not applicable	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	ICPMS tuning was noncompliant
T	Presumed contamination as indicated by the trip blank results.	Not applicable
+	False positive – reported compound was not present.	False positive – reported compound was not present.
-	False negative – compound was present but not reported.	False negative – compound was present but not reported.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
\$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*II, *III	A deficiency was found that has been described in the "Sample Management," section (*II) or the "Method Analyses" section (*III).	A deficiency was found that has been described in the "Sample Management," section (*II) or the "Method Analyses" section (*III).

Validated Sample Result Forms: L10060255

Analysis Method 6010B

Sample Name	LL3SS-261M-1200-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	6140	14	7	mg/kg			
Barium	7440-39-3	37.6	0.35	0.07	mg/kg			
Cadmium	7440-43-9	0.175	0.35	0.175	mg/kg	U	U	
Chromium	7440-47-3	16.2	0.175	0.084	mg/kg			
Manganese	7439-96-5	554	0.35	0.175	mg/kg			

Sample Name	LL3SS-261M-2007-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	4780	14.4	7.22	mg/kg			
Barium	7440-39-3	38.5	0.361	0.0722	mg/kg			
Cadmium	7440-43-9	0.0361	0.0722	0.0361	mg/kg	U	U	
Chromium	7440-47-3	12.7	0.18	0.0866	mg/kg			
Manganese	7439-96-5	379	0.361	0.18	mg/kg			

Sample Name	LL3SS-293M-2005-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-01	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	5380	14.5	7.23	mg/kg			
Barium	7440-39-3	36.4	0.361	0.0723	mg/kg			
Cadmium	7440-43-9	0.0361	0.0723	0.0361	mg/kg	U	U	
Chromium	7440-47-3	15.3	0.181	0.0867	mg/kg			
Manganese	7439-96-5	505	0.361	0.181	mg/kg			

Analysis Method 6010B

Sample Name	LL3SS-293M-2006-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	5300	14	7	mg/kg			
Barium	7440-39-3	36.6	0.35	0.07	mg/kg			
Cadmium	7440-43-9	0.175	0.35	0.175	mg/kg	U	U	
Chromium	7440-47-3	14.1	0.175	0.084	mg/kg			
Manganese	7439-96-5	447	0.35	0.175	mg/kg			

Sample Name	LL3SS-294M-2008-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-05	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	7900	15.2	7.58	mg/kg			
Barium	7440-39-3	64	0.379	0.0758	mg/kg			
Cadmium	7440-43-9	0.19	0.379	0.19	mg/kg	U	U	
Chromium	7440-47-3	14.9	0.19	0.091	mg/kg			
Manganese	7439-96-5	784	0.379	0.19	mg/kg			

Sample Name	LL3SS-294M-2010-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-06	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	7870	13.6	6.81	mg/kg			
Barium	7440-39-3	63.1	0.341	0.0681	mg/kg			
Cadmium	7440-43-9	0.17	0.341	0.17	mg/kg	U	U	
Chromium	7440-47-3	15.1	0.17	0.0817	mg/kg			
Manganese	7439-96-5	779	0.341	0.17	mg/kg			

Analysis Method 6010B

Sample Name	LL3SS-294M-2011-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-07	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	8190	15.3	7.65	mg/kg			
Barium	7440-39-3	64.7	0.382	0.0765	mg/kg			
Cadmium	7440-43-9	0.191	0.382	0.191	mg/kg	U	U	
Chromium	7440-47-3	14.4	0.191	0.0918	mg/kg			
Manganese	7439-96-5	805	0.382	0.191	mg/kg			

Sample Name	LL3SS-294M-2012-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-08	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	6540	14	7.01	mg/kg			
Barium	7440-39-3	52	0.351	0.0701	mg/kg			
Cadmium	7440-43-9	0.0351	0.0701	0.0351	mg/kg	U	U	
Chromium	7440-47-3	14.3	0.175	0.0842	mg/kg			
Manganese	7439-96-5	515	0.351	0.175	mg/kg			

Analysis Method 6020

Sample Name	LL3SS-261M-1200-SO	AnalysisType: RE						
Lab Sample Name:	L10060255-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.304	0.102	0.0508	mg/kg			
Arsenic	7440-38-2	12.3	0.285	0.143	mg/kg			
Lead	7439-92-1	18.7	0.19	0.0951	mg/kg			

Sample Name	LL3SS-261M-2007-SO	AnalysisType: RE						
Lab Sample Name:	L10060255-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.442	0.1	0.05	mg/kg			
Arsenic	7440-38-2	11.6	0.291	0.145	mg/kg			
Lead	7439-92-1	31.9	0.194	0.097	mg/kg			

Sample Name	LL3SS-293M-2005-SO	AnalysisType: RE						
Lab Sample Name:	L10060255-01	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.358	0.0953	0.0476	mg/kg			
Arsenic	7440-38-2	17.1	0.292	0.146	mg/kg		J-	A
Lead	7439-92-1	24.7	0.195	0.0975	mg/kg			

Sample Name	LL3SS-293M-2006-SO	AnalysisType: RE						
Lab Sample Name:	L10060255-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.383	0.0982	0.0491	mg/kg			
Arsenic	7440-38-2	13.4	0.301	0.151	mg/kg			
Lead	7439-92-1	19.8	0.201	0.1	mg/kg			

Analysis Method 6020

Sample Name	LL3SS-294M-2008-SO	AnalysisType: RE						
Lab Sample Name:	L10060255-05	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.288	0.1	0.0501	mg/kg			
Arsenic	7440-38-2	11.9	0.291	0.145	mg/kg			
Lead	7439-92-1	27.7	0.194	0.0968	mg/kg			

Sample Name	LL3SS-294M-2010-SO	AnalysisType: RE						
Lab Sample Name:	L10060255-06	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.281	0.0945	0.0472	mg/kg			
Arsenic	7440-38-2	12	0.292	0.146	mg/kg			
Lead	7439-92-1	16.7	0.195	0.0974	mg/kg			

Sample Name	LL3SS-294M-2011-SO	AnalysisType: RE						
Lab Sample Name:	L10060255-07	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.304	0.1	0.0502	mg/kg			
Arsenic	7440-38-2	10.7	0.297	0.149	mg/kg			
Lead	7439-92-1	16.3	0.198	0.0991	mg/kg			

Sample Name	LL3SS-294M-2012-SO	AnalysisType: RE						
Lab Sample Name:	L10060255-08	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.401	0.0955	0.0477	mg/kg			
Arsenic	7440-38-2	11.2	0.297	0.148	mg/kg			
Lead	7439-92-1	45.9	0.395	0.198	mg/kg			

Analysis Method 8082

Sample Name	LL3SS-261M-1200-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.32	16.6	8.32	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.32	16.6	8.32	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.32	16.6	8.32	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.32	16.6	8.32	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.32	16.6	8.32	ug/kg	U	U	
Aroclor-1254	11097-69-1	88.3	16.6	8.32	ug/kg	Q		
Aroclor-1254	11097-69-1	79.1	16.6	8.32	ug/kg			
Aroclor-1260	11096-82-5	8.32	16.6	8.32	ug/kg	U	U	

Sample Name	LL3SS-261M-2007-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.23	16.5	8.23	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.23	16.5	8.23	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.23	16.5	8.23	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.23	16.5	8.23	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.23	16.5	8.23	ug/kg	U	U	
Aroclor-1254	11097-69-1	632	16.5	8.23	ug/kg			
Aroclor-1254	11097-69-1	681	16.5	8.23	ug/kg	Q		
Aroclor-1260	11096-82-5	8.23	16.5	8.23	ug/kg	U	U	

Analysis Method 8082

Sample Name	LL3SS-293M-2005-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-01	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.25	16.5	8.25	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.25	16.5	8.25	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.25	16.5	8.25	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.25	16.5	8.25	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.25	16.5	8.25	ug/kg	U	U	
Aroclor-1254	11097-69-1	113	16.5	8.25	ug/kg			
Aroclor-1254	11097-69-1	132	16.5	8.25	ug/kg	Q	R	D
Aroclor-1260	11096-82-5	8.25	16.5	8.25	ug/kg	U	U	

Sample Name	LL3SS-293M-2006-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.11	16.2	8.11	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.11	16.2	8.11	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.11	16.2	8.11	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.11	16.2	8.11	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.11	16.2	8.11	ug/kg	U	U	
Aroclor-1254	11097-69-1	72.1	16.2	8.11	ug/kg	Q	J+	S
Aroclor-1254	11097-69-1	91.8	16.2	8.11	ug/kg			
Aroclor-1260	11096-82-5	8.11	16.2	8.11	ug/kg	U	U	

Analysis Method 8082

Sample Name	LL3SS-294M-2008-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-05	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1254	11097-69-1	36.8	16.6	8.28	ug/kg	Q	R	D
Aroclor-1254	11097-69-1	27.9	16.6	8.28	ug/kg			
Aroclor-1260	11096-82-5	8.28	16.6	8.28	ug/kg	U	U	

Sample Name	LL3SS-294M-2010-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-06	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.26	16.5	8.26	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.26	16.5	8.26	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.26	16.5	8.26	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.26	16.5	8.26	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.26	16.5	8.26	ug/kg	U	U	
Aroclor-1254	11097-69-1	17.6	16.5	8.26	ug/kg	Q	R	D
Aroclor-1254	11097-69-1	14.7	16.5	8.26	ug/kg	J	J	
Aroclor-1260	11096-82-5	8.26	16.5	8.26	ug/kg	U	U	

Analysis Method 8082

Sample Name	LL3SS-294M-2011-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-07	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.37	16.7	8.37	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.37	16.7	8.37	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.37	16.7	8.37	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.37	16.7	8.37	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.37	16.7	8.37	ug/kg	U	U	
Aroclor-1254	11097-69-1	76	16.7	8.37	ug/kg			
Aroclor-1254	11097-69-1	82.5	16.7	8.37	ug/kg	Q	R	D
Aroclor-1260	11096-82-5	8.37	16.7	8.37	ug/kg	U	U	

Sample Name	LL3SS-294M-2012-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-08	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1254	11097-69-1	189	16.6	8.28	ug/kg			
Aroclor-1254	11097-69-1	228	16.6	8.28	ug/kg	Q	J+	C
Aroclor-1260	11096-82-5	8.28	16.6	8.28	ug/kg	U	U	

Analysis Method 8270C

Sample Name	LL3SS-261M-1200-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	323	161	80.7	ug/kg		J-	S
Benzo(a)pyrene	50-32-8	249	161	80.7	ug/kg		J-	S
Benzo(b)fluoranthene	205-99-2	200	161	80.7	ug/kg		J-	S
Dibenzo(a,h)Anthracene	53-70-3	80.7	161	80.7	ug/kg	U	UJ	S

Sample Name	LL3SS-261M-2007-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	1110	811	405	ug/kg		J-	S
Benzo(a)pyrene	50-32-8	854	811	405	ug/kg		J-	S
Benzo(b)fluoranthene	205-99-2	618	811	405	ug/kg	J	J	S
Dibenzo(a,h)Anthracene	53-70-3	405	811	405	ug/kg	U	UJ	S

Sample Name	LL3SS-293M-2005-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-01	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	7570	1650	824	ug/kg			
Benzo(a)pyrene	50-32-8	5880	1650	824	ug/kg			
Benzo(b)fluoranthene	205-99-2	4600	1650	824	ug/kg			
Dibenzo(a,h)Anthracene	53-70-3	847	1650	824	ug/kg	J	J	

Analysis Method 8270C

Sample Name	LL3SS-293M-2006-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	8660	1620	809	ug/kg		J-	S
Benzo(a)pyrene	50-32-8	6620	1620	809	ug/kg		J-	S
Benzo(b)fluoranthene	205-99-2	6240	1620	809	ug/kg		J-	S
Dibenzo(a,h)Anthracene	53-70-3	944	1620	809	ug/kg	J	J	S

Sample Name	LL3SS-294M-2008-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-05	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	80.2	160	80.2	ug/kg	U	UJ	S
Benzo(a)pyrene	50-32-8	80.2	160	80.2	ug/kg	U	UJ	S
Benzo(b)fluoranthene	205-99-2	80.2	160	80.2	ug/kg	U	UJ	S
Dibenzo(a,h)Anthracene	53-70-3	80.2	160	80.2	ug/kg	U	UJ	S

Sample Name	LL3SS-294M-2010-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-06	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	81.4	163	81.4	ug/kg	U	UJ	S
Benzo(a)pyrene	50-32-8	81.4	163	81.4	ug/kg	U	UJ	S
Benzo(b)fluoranthene	205-99-2	81.4	163	81.4	ug/kg	U	UJ	S
Dibenzo(a,h)Anthracene	53-70-3	81.4	163	81.4	ug/kg	U	UJ	S

Analysis Method 8270C

Sample Name		LL3SS-294M-2011-SO		AnalysisType: RES				
Lab Sample Name:		L10060255-07		Validation Level: ADR				
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	82.3	165	82.3	ug/kg	U	UJ	S
Benzo(a)pyrene	50-32-8	82.3	165	82.3	ug/kg	U	UJ	S
Benzo(b)fluoranthene	205-99-2	82.3	165	82.3	ug/kg	U	UJ	S
Dibenzo(a,h)Anthracene	53-70-3	82.3	165	82.3	ug/kg	U	UJ	S

Sample Name		LL3SS-294M-2012-SO		AnalysisType: RES				
Lab Sample Name:		L10060255-08		Validation Level: ADR				
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	129	163	81.3	ug/kg	J	J	
Benzo(a)pyrene	50-32-8	130	163	81.3	ug/kg	J	J	
Benzo(b)fluoranthene	205-99-2	108	163	81.3	ug/kg	J	J	
Dibenzo(a,h)Anthracene	53-70-3	81.3	163	81.3	ug/kg	U	U	

Analysis Method 8330

Sample Name	LL3SS-261M-1200-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	27.4	1.25	0.5	mg/kg			
2,4,6-Trinitrotoluene	118-96-7	28.1	1.25	0.5	mg/kg			
RDX	121-82-4	0.5	1.25	0.5	mg/kg	U	U	
RDX	121-82-4	0.5	1.25	0.5	mg/kg	U	U	

Sample Name	LL3SS-261M-2007-SO	AnalysisType: CFDL						
Lab Sample Name:	L10060255-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	39	1.24	0.495	mg/kg			
2,4,6-Trinitrotoluene	118-96-7	38.6	1.24	0.495	mg/kg			
RDX	121-82-4	0.495	1.24	0.495	mg/kg	U	U	
RDX	121-82-4	0.495	1.24	0.495	mg/kg	U	U	

Sample Name	LL3SS-293M-2005-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-01	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	9.28	0.482	0.193	mg/kg		R	D
2,4,6-Trinitrotoluene	118-96-7	9.56	0.482	0.193	mg/kg			
RDX	121-82-4	0.193	0.482	0.193	mg/kg	U	U	
RDX	121-82-4	0.193	0.482	0.193	mg/kg	U	R	D

Analysis Method 8330

Sample Name	LL3SS-293M-2006-SO	AnalysisType: CF						
Lab Sample Name:	L10060255-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	4.79	0.246	0.0983	mg/kg			
2,4,6-Trinitrotoluene	118-96-7	4.74	0.246	0.0983	mg/kg			
RDX	121-82-4	0.0983	0.246	0.0983	mg/kg	U	U	
RDX	121-82-4	0.0983	0.246	0.0983	mg/kg	U	U	

Sample Name	LL3SS-294M-2008-SO	AnalysisType: CF						
Lab Sample Name:	L10060255-05	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	0.765	0.248	0.0992	mg/kg			
2,4,6-Trinitrotoluene	118-96-7	0.763	0.248	0.0992	mg/kg		R	D
RDX	121-82-4	1.44	0.248	0.0992	mg/kg			
RDX	121-82-4	1.28	0.248	0.0992	mg/kg		R	D

Sample Name	LL3SS-294M-2010-SO	AnalysisType: CF						
Lab Sample Name:	L10060255-06	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	0.843	0.251	0.1	mg/kg		J+	S
2,4,6-Trinitrotoluene	118-96-7	0.842	0.251	0.1	mg/kg			
RDX	121-82-4	0.591	0.251	0.1	mg/kg		J+	S
RDX	121-82-4	0.469	0.251	0.1	mg/kg			

Analysis Method 8330

Sample Name		LL3SS-294M-2011-SO		AnalysisType: RES				
Lab Sample Name:		L10060255-07		Validation Level: ADR				
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	2.34	0.246	0.0985	mg/kg			
2,4,6-Trinitrotoluene	118-96-7	2.35	0.246	0.0985	mg/kg			
RDX	121-82-4	2.22	0.246	0.0985	mg/kg			
RDX	121-82-4	2.19	0.246	0.0985	mg/kg			

Sample Name		LL3SS-294M-2012-SO		AnalysisType: CFDL				
Lab Sample Name:		L10060255-08		Validation Level: ADR				
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	13.7	0.47	0.188	mg/kg			
2,4,6-Trinitrotoluene	118-96-7	13.5	0.47	0.188	mg/kg			
RDX	121-82-4	2.6	0.47	0.188	mg/kg			
RDX	121-82-4	2.6	0.47	0.188	mg/kg			

Analysis Method SM3500Cr-D 7196A

Sample Name	LL3SS-261M-1200-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0496	0.0992	0.0496	mg/kg	U	U	

Sample Name	LL3SS-261M-2007-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0489	0.0979	0.0489	mg/kg	U	U	

Sample Name	LL3SS-293M-2005-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-01	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0483	0.0966	0.0483	mg/kg	U	UJ	Q

Sample Name	LL3SS-293M-2006-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0492	0.0984	0.0492	mg/kg	U	U	

Sample Name	LL3SS-294M-2008-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-05	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0491	0.0982	0.0491	mg/kg	U	UJ	Q

Sample Name	LL3SS-294M-2010-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-06	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0503	0.101	0.0503	mg/kg	U	U	

Analysis Method *SM3500Cr-D 7196A*

Sample Name	LL3SS-294M-2011-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-07	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0499	0.0997	0.0499	mg/kg	U	U	

Sample Name	LL3SS-294M-2012-SO	AnalysisType: RES						
Lab Sample Name:	L10060255-08	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0503	0.101	0.0503	mg/kg	U	U	

Validated Sample Result Forms: L10060320

Analysis Method 6010B

Sample Name	LL3SS-295M-2013-SO	AnalysisType: DL						
Lab Sample Name:	L10060320-01	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	9990	69	34.5	mg/kg		J+	Q
Barium	7440-39-3	61.9	0.345	0.069	mg/kg			
Cadmium	7440-43-9	0.0345	0.069	0.0345	mg/kg	U	U	
Chromium	7440-47-3	17.6	0.173	0.0828	mg/kg			
Manganese	7439-96-5	536	0.345	0.173	mg/kg		J-	Q

Sample Name	LL3SS-295M-2014-ER	AnalysisType: RES						
Lab Sample Name:	L10060320-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	0.05	0.1	0.05	mg/L	U	U	
Barium	7440-39-3	0.0038	0.01	0.0025	mg/L	J	UJ	B
Cadmium	7440-43-9	0.00025	0.0005	0.00025	mg/L	U	U	
Chromium	7440-47-3	0.0025	0.005	0.0025	mg/L	U	U	
Manganese	7439-96-5	0.005	0.01	0.005	mg/L	U	U	

Sample Name	LL3SS-295M-2014-SO	AnalysisType: RES						
Lab Sample Name:	L10060320-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	9920	15.2	7.58	mg/kg		J+	Q
Barium	7440-39-3	57.1	0.379	0.0758	mg/kg			
Cadmium	7440-43-9	0.379	0.758	0.379	mg/kg	U	U	
Chromium	7440-47-3	17	0.19	0.091	mg/kg			
Manganese	7439-96-5	318	0.379	0.19	mg/kg		J-	Q

Analysis Method 6020

Sample Name	LL3SS-295M-2013-SO	AnalysisType: RE						
Lab Sample Name:	L10060320-01	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.464	0.101	0.0503	mg/kg			
Arsenic	7440-38-2	14.6	0.291	0.145	mg/kg			
Lead	7439-92-1	31.2	0.194	0.0968	mg/kg			

Sample Name	LL3SS-295M-2014-ER	AnalysisType: RES						
Lab Sample Name:	L10060320-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.0005	0.001	0.0005	mg/L	U	U	
Arsenic	7440-38-2	0.0005	0.001	0.0005	mg/L	U	U	
Lead	7439-92-1	0.0005	0.001	0.0005	mg/L	U	U	

Sample Name	LL3SS-295M-2014-SO	AnalysisType: RE						
Lab Sample Name:	L10060320-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	1.2	0.0973	0.0486	mg/kg			
Arsenic	7440-38-2	12.7	0.301	0.151	mg/kg			
Lead	7439-92-1	18.9	0.201	0.1	mg/kg			

Analysis Method 8082

Sample Name	LL3SS-295M-2013-SO	AnalysisType: RES						
Lab Sample Name:	L10060320-01	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.15	16.3	8.15	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.15	16.3	8.15	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.15	16.3	8.15	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.15	16.3	8.15	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.15	16.3	8.15	ug/kg	U	U	
Aroclor-1254	11097-69-1	339	16.3	8.15	ug/kg			
Aroclor-1254	11097-69-1	361	16.3	8.15	ug/kg	Q	J+	S
Aroclor-1260	11096-82-5	8.15	16.3	8.15	ug/kg	U	U	

Sample Name	LL3SS-295M-2014-ER	AnalysisType: RES						
Lab Sample Name:	L10060320-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	0.255	0.51	0.255	ug/L	U	U	
Aroclor-1221	11104-28-2	0.255	0.51	0.255	ug/L	U	U	
Aroclor-1232	11141-16-5	0.255	0.51	0.255	ug/L	U	U	
Aroclor-1242	53469-21-9	0.255	0.51	0.255	ug/L	U	U	
Aroclor-1248	12672-29-6	0.255	0.51	0.255	ug/L	U	U	
Aroclor-1254	11097-69-1	0.255	0.51	0.255	ug/L	U	U	
Aroclor-1260	11096-82-5	0.255	0.51	0.255	ug/L	U	U	

Analysis Method 8082

Sample Name	LL3SS-295M-2014-SO	AnalysisType:	RES					
Lab Sample Name:	L10060320-02	Validation Level:	ADR					
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.32	16.6	8.32	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.32	16.6	8.32	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.32	16.6	8.32	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.32	16.6	8.32	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.32	16.6	8.32	ug/kg	U	U	
Aroclor-1254	11097-69-1	70.1	16.6	8.32	ug/kg			
Aroclor-1254	11097-69-1	73.1	16.6	8.32	ug/kg	Q	J+	C
Aroclor-1260	11096-82-5	8.32	16.6	8.32	ug/kg	U	U	

Analysis Method 8270C

Sample Name	LL3SS-295M-2013-SO	AnalysisType: RES						
Lab Sample Name:	L10060320-01	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	80.1	160	80.1	ug/kg	U	UJ	S
Benzo(a)pyrene	50-32-8	80.1	160	80.1	ug/kg	U	UJ	S
Benzo(b)fluoranthene	205-99-2	80.1	160	80.1	ug/kg	U	UJ	S
Dibenzo(a,h)Anthracene	53-70-3	80.1	160	80.1	ug/kg	U	UJ	S

Sample Name	LL3SS-295M-2014-ER	AnalysisType: RES						
Lab Sample Name:	L10060320-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	2.55	10.2	2.55	ug/L	U	U	
Benzo(a)pyrene	50-32-8	2.55	10.2	2.55	ug/L	U	U	
Benzo(b)fluoranthene	205-99-2	2.55	10.2	2.55	ug/L	U	U	
Dibenzo(a,h)Anthracene	53-70-3	2.55	10.2	2.55	ug/L	U	U	

Sample Name	LL3SS-295M-2014-SO	AnalysisType: RES						
Lab Sample Name:	L10060320-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	79.8	160	79.8	ug/kg	U	U	
Benzo(a)pyrene	50-32-8	79.8	160	79.8	ug/kg	U	U	
Benzo(b)fluoranthene	205-99-2	79.8	160	79.8	ug/kg	U	U	
Dibenzo(a,h)Anthracene	53-70-3	79.8	160	79.8	ug/kg	U	U	

Analysis Method 8330

Sample Name	LL3SS-295M-2013-SO	AnalysisType: RES						
Lab Sample Name:	L10060320-01	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	13.1	0.249	0.0995	mg/kg	I		
2,4,6-Trinitrotoluene	118-96-7	13.1	1.24	0.498	mg/kg			
2,4,6-Trinitrotoluene	118-96-7	13.1	1.24	0.498	mg/kg			
RDX	121-82-4	0.498	1.24	0.498	mg/kg	U	U	
RDX	121-82-4	0.0995	0.249	0.0995	mg/kg	U	U	
RDX	121-82-4	0.498	1.24	0.498	mg/kg	U	U	

Sample Name	LL3SS-295M-2014-ER	AnalysisType: RES						
Lab Sample Name:	L10060320-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	0.255	1.02	0.255	ug/L	U	U	
RDX	121-82-4	0.255	1.02	0.255	ug/L	U	U	

Sample Name	LL3SS-295M-2014-SO	AnalysisType: RES						
Lab Sample Name:	L10060320-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	787	0.247	0.0988	mg/kg	I	J-	S
2,4,6-Trinitrotoluene	118-96-7	1090	49.4	19.8	mg/kg			
2,4,6-Trinitrotoluene	118-96-7	985	0.247	0.0988	mg/kg	I		
2,4,6-Trinitrotoluene	118-96-7	1100	49.4	19.8	mg/kg			
RDX	121-82-4	0.288	0.247	0.0988	mg/kg		J-	S
RDX	121-82-4	19.8	49.4	19.8	mg/kg	U	U	
RDX	121-82-4	19.8	49.4	19.8	mg/kg	U	U	
RDX	121-82-4	0.194	0.247	0.0988	mg/kg	J	J	

Analysis Method *SM3500Cr-D 7196A*

Sample Name	LL3SS-295M-2013-SO	AnalysisType: RES						
Lab Sample Name:	L10060320-01	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0499	0.0999	0.0499	mg/kg	U	U	

Sample Name	LL3SS-295M-2014-ER	AnalysisType: RES						
Lab Sample Name:	L10060320-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent	7440-47-3	0.005	0.01	0.005	mg/L	U	U	

Sample Name	LL3SS-295M-2014-SO	AnalysisType: RES						
Lab Sample Name:	L10060320-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0483	0.0967	0.0483	mg/kg	U	U	

Validated Sample Result Forms: L10060526

Analysis Method 6010B

Sample Name	LL3SS-253M-1185-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-05	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	5840	15.1	7.56	mg/kg		J+	Q
Barium	7440-39-3	39.1	0.378	0.0756	mg/kg			
Cadmium	7440-43-9	0.376	0.0756	0.0378	mg/kg			
Chromium	7440-47-3	16.6	0.189	0.0907	mg/kg			
Manganese	7439-96-5	542	0.378	0.189	mg/kg		J-	Q

Sample Name	LL3SS-253M-2002-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-08	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	5090	14.2	7.08	mg/kg		J+	Q
Barium	7440-39-3	33	0.354	0.0708	mg/kg			
Cadmium	7440-43-9	0.14	0.0708	0.0354	mg/kg			
Chromium	7440-47-3	15	0.177	0.0849	mg/kg			
Manganese	7439-96-5	384	0.354	0.177	mg/kg		J-	Q

Sample Name	LL3SS-292M-2003-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	11800	15.1	7.54	mg/kg		J+	Q
Barium	7440-39-3	60.1	0.377	0.0754	mg/kg			
Cadmium	7440-43-9	0.306	0.0754	0.0377	mg/kg			
Chromium	7440-47-3	19	0.189	0.0905	mg/kg			
Manganese	7439-96-5	375	0.377	0.189	mg/kg		J-	Q

Analysis Method 6010B

Sample Name	LL3SS-292M-2004-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	11500	13.6	6.81	mg/kg		J+	Q
Barium	7440-39-3	81.1	0.34	0.0681	mg/kg			
Cadmium	7440-43-9	0.278	0.0681	0.034	mg/kg			
Chromium	7440-47-3	17.6	0.17	0.0817	mg/kg			
Manganese	7439-96-5	413	0.34	0.17	mg/kg		J-	Q

Sample Name	LL3SS-296M-2015-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-01	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	9430	15.1	7.54	mg/kg		J+	Q
Barium	7440-39-3	51.7	0.377	0.0754	mg/kg			
Cadmium	7440-43-9	0.0531	0.0754	0.0377	mg/kg	J	J	
Chromium	7440-47-3	15.6	0.188	0.0904	mg/kg			
Manganese	7439-96-5	359	0.377	0.188	mg/kg		J-	Q

Sample Name	LL3SS-296M-2016-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	11400	15.5	7.73	mg/kg		J+	Q
Barium	7440-39-3	68.3	0.386	0.0773	mg/kg			
Cadmium	7440-43-9	0.0645	0.0773	0.0386	mg/kg	J	J	
Chromium	7440-47-3	17.4	0.193	0.0927	mg/kg			
Manganese	7439-96-5	370	0.386	0.193	mg/kg		J-	Q

Analysis Method 6010B

Sample Name		LL3SS-297M-2017-ER		AnalysisType: RES				
Lab Sample Name:		L10060526-12		Validation Level: ADR				
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	0.05	0.1	0.05	mg/L	U	U	
Barium	7440-39-3	0.0025	0.01	0.0025	mg/L	U	U	
Cadmium	7440-43-9	0.00025	0.0005	0.00025	mg/L	U	U	
Chromium	7440-47-3	0.0025	0.005	0.0025	mg/L	U	U	
Manganese	7439-96-5	0.005	0.01	0.005	mg/L	U	U	

Sample Name		LL3SS-297M-2017-SO		AnalysisType: RES				
Lab Sample Name:		L10060526-09		Validation Level: ADR				
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	6120	15.4	7.68	mg/kg		J+	Q
Barium	7440-39-3	39.1	0.384	0.0768	mg/kg			
Cadmium	7440-43-9	0.79	0.0768	0.0384	mg/kg			
Chromium	7440-47-3	17.3	0.192	0.0922	mg/kg			
Manganese	7439-96-5	407	0.384	0.192	mg/kg		J-	Q

Sample Name		LL3SS-297M-2018-SO		AnalysisType: RES				
Lab Sample Name:		L10060526-10		Validation Level: ADR				
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	8300	14.3	7.13	mg/kg		J+	Q
Barium	7440-39-3	49.5	0.356	0.0713	mg/kg			
Cadmium	7440-43-9	0.219	0.0713	0.0356	mg/kg			
Chromium	7440-47-3	16.5	0.178	0.0856	mg/kg			
Manganese	7439-96-5	467	0.356	0.178	mg/kg		J-	Q

Analysis Method 6020

Sample Name	LL3SS-253M-1185-SO	AnalysisType: RE						
Lab Sample Name:	L10060526-05	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.471	0.0993	0.0497	mg/kg			
Arsenic	7440-38-2	14.8	0.288	0.144	mg/kg		J-	Q
Lead	7439-92-1	35.2	0.192	0.0961	mg/kg		J	Q

Sample Name	LL3SS-253M-2002-SO	AnalysisType: RE						
Lab Sample Name:	L10060526-08	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.45	0.0995	0.0498	mg/kg			
Arsenic	7440-38-2	10.3	0.293	0.147	mg/kg		J-	Q
Lead	7439-92-1	21.2	0.196	0.0978	mg/kg		J	Q

Sample Name	LL3SS-292M-2003-SO	AnalysisType: RE						
Lab Sample Name:	L10060526-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.346	0.101	0.0505	mg/kg			
Arsenic	7440-38-2	13	0.284	0.142	mg/kg		J-	Q
Lead	7439-92-1	13.4	0.19	0.0948	mg/kg		J	Q

Sample Name	LL3SS-292M-2004-SO	AnalysisType: RE						
Lab Sample Name:	L10060526-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.36	0.0997	0.0499	mg/kg			
Arsenic	7440-38-2	12	0.295	0.148	mg/kg		J-	Q
Lead	7439-92-1	15.6	0.197	0.0984	mg/kg		J	Q

Analysis Method 6020

Sample Name	LL3SS-296M-2015-SO	AnalysisType: RE						
Lab Sample Name:	L10060526-01	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.354	0.101	0.0505	mg/kg			
Arsenic	7440-38-2	14.5	0.293	0.147	mg/kg		J-	Q
Lead	7439-92-1	15.7	0.196	0.0978	mg/kg		J	Q

Sample Name	LL3SS-296M-2016-SO	AnalysisType: RE						
Lab Sample Name:	L10060526-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.322	0.0994	0.0497	mg/kg			
Arsenic	7440-38-2	13.9	0.294	0.147	mg/kg		J-	Q
Lead	7439-92-1	16.4	0.196	0.0978	mg/kg		J	Q

Sample Name	LL3SS-297M-2017-ER	AnalysisType: RES						
Lab Sample Name:	L10060526-12	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.0005	0.001	0.0005	mg/L	U	U	
Arsenic	7440-38-2	0.0005	0.001	0.0005	mg/L	U	U	
Lead	7439-92-1	0.0005	0.001	0.0005	mg/L	U	U	

Sample Name	LL3SS-297M-2017-SO	AnalysisType: RE						
Lab Sample Name:	L10060526-09	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	1.11	0.0981	0.049	mg/kg			
Arsenic	7440-38-2	10.5	0.295	0.148	mg/kg		J-	Q
Lead	7439-92-1	125	3.94	1.97	mg/kg		J	Q

Analysis Method 6020

Sample Name	LL3SS-297M-2018-SO	AnalysisType: RE						
Lab Sample Name:	L10060526-10	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.654	0.0985	0.0493	mg/kg			
Arsenic	7440-38-2	11.8	0.296	0.148	mg/kg		J-	Q
Lead	7439-92-1	19.2	0.197	0.0985	mg/kg		J	Q

Analysis Method 8082

Sample Name	LL3SS-253M-1185-SO	AnalysisType:	RES					
Lab Sample Name:	L10060526-05	Validation Level:	ADR					
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.12	16.2	8.12	ug/kg	U	U	
Aroclor-1016	12674-11-2	81.2	162	81.2	ug/kg	U	U	
Aroclor-1221	11104-28-2	81.2	162	81.2	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.12	16.2	8.12	ug/kg	U	U	
Aroclor-1232	11141-16-5	81.2	162	81.2	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.12	16.2	8.12	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.12	16.2	8.12	ug/kg	U	U	
Aroclor-1242	53469-21-9	81.2	162	81.2	ug/kg	U	U	
Aroclor-1248	12672-29-6	81.2	162	81.2	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.12	16.2	8.12	ug/kg	U	U	
Aroclor-1254	11097-69-1	1280	162	81.2	ug/kg			
Aroclor-1254	11097-69-1	1150	16.2	8.12	ug/kg	I		
Aroclor-1254	11097-69-1	1250	162	81.2	ug/kg			
Aroclor-1260	11096-82-5	81.2	162	81.2	ug/kg	U	U	
Aroclor-1260	11096-82-5	8.12	16.2	8.12	ug/kg	U	U	

Analysis Method 8082

Sample Name	LL3SS-253M-2002-SO	AnalysisType:	CF					
Lab Sample Name:	L10060526-08	Validation Level:	ADR					
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1016	12674-11-2	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1254	11097-69-1	67	16.6	8.28	ug/kg			
Aroclor-1254	11097-69-1	68.3	16.6	8.28	ug/kg			
Aroclor-1260	11096-82-5	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1260	11096-82-5	8.28	16.6	8.28	ug/kg	U	U	

Analysis Method 8082

Sample Name	LL3SS-292M-2003-SO	AnalysisType:	CF					
Lab Sample Name:	L10060526-03	Validation Level:	ADR					
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.19	16.4	8.19	ug/kg	U	UJ	S
Aroclor-1016	12674-11-2	8.19	16.4	8.19	ug/kg	U	UJ	S
Aroclor-1221	11104-28-2	8.19	16.4	8.19	ug/kg	U	UJ	S
Aroclor-1221	11104-28-2	8.19	16.4	8.19	ug/kg	U	UJ	S
Aroclor-1232	11141-16-5	8.19	16.4	8.19	ug/kg	U	UJ	S
Aroclor-1232	11141-16-5	8.19	16.4	8.19	ug/kg	U	UJ	S
Aroclor-1242	53469-21-9	8.19	16.4	8.19	ug/kg	U	UJ	S
Aroclor-1242	53469-21-9	8.19	16.4	8.19	ug/kg	U	UJ	S
Aroclor-1248	12672-29-6	8.19	16.4	8.19	ug/kg	U	UJ	S
Aroclor-1248	12672-29-6	8.19	16.4	8.19	ug/kg	U	UJ	S
Aroclor-1254	11097-69-1	19.3	16.4	8.19	ug/kg		J-	S
Aroclor-1254	11097-69-1	23.1	16.4	8.19	ug/kg		J-	S
Aroclor-1260	11096-82-5	8.19	16.4	8.19	ug/kg	U	UJ	S
Aroclor-1260	11096-82-5	8.19	16.4	8.19	ug/kg	U	UJ	S

Analysis Method 8082

Sample Name	LL3SS-292M-2004-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.09	16.2	8.09	ug/kg	U	UJ	H
Aroclor-1016	12674-11-2	8.09	16.2	8.09	ug/kg	U	UJ	H
Aroclor-1221	11104-28-2	8.09	16.2	8.09	ug/kg	U	UJ	H
Aroclor-1221	11104-28-2	8.09	16.2	8.09	ug/kg	U	UJ	H
Aroclor-1232	11141-16-5	8.09	16.2	8.09	ug/kg	U	UJ	H
Aroclor-1232	11141-16-5	8.09	16.2	8.09	ug/kg	U	UJ	H
Aroclor-1242	53469-21-9	8.09	16.2	8.09	ug/kg	U	UJ	H
Aroclor-1242	53469-21-9	8.09	16.2	8.09	ug/kg	U	UJ	H
Aroclor-1248	12672-29-6	8.09	16.2	8.09	ug/kg	U	UJ	H
Aroclor-1248	12672-29-6	8.09	16.2	8.09	ug/kg	U	UJ	H
Aroclor-1254	11097-69-1	104	16.2	8.09	ug/kg		J-	H
Aroclor-1254	11097-69-1	94.2	16.2	8.09	ug/kg		J-	H
Aroclor-1260	11096-82-5	8.09	16.2	8.09	ug/kg	U	UJ	H
Aroclor-1260	11096-82-5	8.09	16.2	8.09	ug/kg	U	UJ	H

Analysis Method 8082

Sample Name	LL3SS-296M-2015-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-01	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.23	16.5	8.23	ug/kg	U	UJ	H
Aroclor-1016	12674-11-2	8.23	16.5	8.23	ug/kg	U	UJ	H
Aroclor-1221	11104-28-2	8.23	16.5	8.23	ug/kg	U	UJ	H
Aroclor-1221	11104-28-2	8.23	16.5	8.23	ug/kg	U	UJ	H
Aroclor-1232	11141-16-5	8.23	16.5	8.23	ug/kg	U	UJ	H
Aroclor-1232	11141-16-5	8.23	16.5	8.23	ug/kg	U	UJ	H
Aroclor-1242	53469-21-9	8.23	16.5	8.23	ug/kg	U	UJ	H
Aroclor-1242	53469-21-9	8.23	16.5	8.23	ug/kg	U	UJ	H
Aroclor-1248	12672-29-6	8.23	16.5	8.23	ug/kg	U	UJ	H
Aroclor-1248	12672-29-6	8.23	16.5	8.23	ug/kg	U	UJ	H
Aroclor-1254	11097-69-1	24.7	16.5	8.23	ug/kg		J-	H
Aroclor-1254	11097-69-1	19.9	16.5	8.23	ug/kg		J-	H
Aroclor-1260	11096-82-5	8.23	16.5	8.23	ug/kg	U	UJ	H
Aroclor-1260	11096-82-5	8.23	16.5	8.23	ug/kg	U	UJ	H

Analysis Method 8082

Sample Name		LL3SS-296M-2016-SO		AnalysisType: RES				
Lab Sample Name:		L10060526-02		Validation Level: ADR				
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.07	16.1	8.07	ug/kg	U	UJ	H
Aroclor-1016	12674-11-2	8.07	16.1	8.07	ug/kg	U	UJ	H
Aroclor-1221	11104-28-2	8.07	16.1	8.07	ug/kg	U	UJ	H
Aroclor-1221	11104-28-2	8.07	16.1	8.07	ug/kg	U	UJ	H
Aroclor-1232	11141-16-5	8.07	16.1	8.07	ug/kg	U	UJ	H
Aroclor-1232	11141-16-5	8.07	16.1	8.07	ug/kg	U	UJ	H
Aroclor-1242	53469-21-9	8.07	16.1	8.07	ug/kg	U	UJ	H
Aroclor-1242	53469-21-9	8.07	16.1	8.07	ug/kg	U	UJ	H
Aroclor-1248	12672-29-6	8.07	16.1	8.07	ug/kg	U	UJ	H
Aroclor-1248	12672-29-6	8.07	16.1	8.07	ug/kg	U	UJ	H
Aroclor-1254	11097-69-1	41	16.1	8.07	ug/kg		J-	H
Aroclor-1254	11097-69-1	47.3	16.1	8.07	ug/kg		J-	H
Aroclor-1260	11096-82-5	8.07	16.1	8.07	ug/kg	U	UJ	H
Aroclor-1260	11096-82-5	8.07	16.1	8.07	ug/kg	U	UJ	H

Sample Name		LL3SS-297M-2017-ER		AnalysisType: RES				
Lab Sample Name:		L10060526-12		Validation Level: ADR				
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	0.25	0.5	0.25	ug/L	U	U	
Aroclor-1221	11104-28-2	0.25	0.5	0.25	ug/L	U	U	
Aroclor-1232	11141-16-5	0.25	0.5	0.25	ug/L	U	U	
Aroclor-1242	53469-21-9	0.25	0.5	0.25	ug/L	U	U	
Aroclor-1248	12672-29-6	0.25	0.5	0.25	ug/L	U	U	
Aroclor-1254	11097-69-1	0.25	0.5	0.25	ug/L	U	U	
Aroclor-1260	11096-82-5	0.25	0.5	0.25	ug/L	U	U	

Analysis Method 8082

Sample Name	LL3SS-297M-2017-SO	AnalysisType:	CFDL					
Lab Sample Name:	L10060526-09	Validation Level:	ADR					
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	163	326	163	ug/kg	U	U	
Aroclor-1016	12674-11-2	8.15	16.3	8.15	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.15	16.3	8.15	ug/kg	U	U	
Aroclor-1221	11104-28-2	163	326	163	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.15	16.3	8.15	ug/kg	U	U	
Aroclor-1232	11141-16-5	163	326	163	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.15	16.3	8.15	ug/kg	U	U	
Aroclor-1242	53469-21-9	163	326	163	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.15	16.3	8.15	ug/kg	U	U	
Aroclor-1248	12672-29-6	163	326	163	ug/kg	U	U	
Aroclor-1254	11097-69-1	2900	326	163	ug/kg			
Aroclor-1254	11097-69-1	2800	326	163	ug/kg			
Aroclor-1254	11097-69-1	2340	16.3	8.15	ug/kg	I		
Aroclor-1260	11096-82-5	163	326	163	ug/kg	U	U	
Aroclor-1260	11096-82-5	8.15	16.3	8.15	ug/kg	U	U	

Analysis Method 8082

Sample Name	LL3SS-297M-2018-SO	AnalysisType:	RES					
Lab Sample Name:	L10060526-10	Validation Level:	ADR					
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1016	12674-11-2	82.8	166	82.8	ug/kg	U	U	
Aroclor-1221	11104-28-2	82.8	166	82.8	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1232	11141-16-5	82.8	166	82.8	ug/kg	U	U	
Aroclor-1242	53469-21-9	82.8	166	82.8	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.28	16.6	8.28	ug/kg	U	U	
Aroclor-1248	12672-29-6	82.8	166	82.8	ug/kg	U	U	
Aroclor-1254	11097-69-1	962	166	82.8	ug/kg			
Aroclor-1254	11097-69-1	844	16.6	8.28	ug/kg	I		
Aroclor-1254	11097-69-1	947	166	82.8	ug/kg			
Aroclor-1260	11096-82-5	82.8	166	82.8	ug/kg	U	U	
Aroclor-1260	11096-82-5	8.28	16.6	8.28	ug/kg	U	U	

Analysis Method 8270C

Sample Name	LL3SS-253M-1185-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-05	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	124	164	82.2	ug/kg	J	J	S
Benzo(a)pyrene	50-32-8	147	164	82.2	ug/kg	J	J	S
Benzo(b)fluoranthene	205-99-2	124	164	82.2	ug/kg	J	J	S
Dibenzo(a,h)Anthracene	53-70-3	86.2	164	82.2	ug/kg	J	J	S

Sample Name	LL3SS-253M-2002-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-08	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	89.7	159	79.6	ug/kg	J	J	S
Benzo(a)pyrene	50-32-8	95.9	159	79.6	ug/kg	J	J	S
Benzo(b)fluoranthene	205-99-2	79.6	159	79.6	ug/kg	U	UJ	S
Dibenzo(a,h)Anthracene	53-70-3	79.6	159	79.6	ug/kg	U	UJ	S

Sample Name	LL3SS-292M-2003-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	81.4	163	81.4	ug/kg	U	UJ	S
Benzo(a)pyrene	50-32-8	81.4	163	81.4	ug/kg	U	UJ	S
Benzo(b)fluoranthene	205-99-2	81.4	163	81.4	ug/kg	U	UJ	S
Dibenzo(a,h)Anthracene	53-70-3	81.4	163	81.4	ug/kg	U	UJ	S

Analysis Method 8270C

Sample Name	LL3SS-292M-2004-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	88.9	163	81.7	ug/kg	J	J	S
Benzo(a)pyrene	50-32-8	81.7	163	81.7	ug/kg	U	UJ	S
Benzo(b)fluoranthene	205-99-2	81.7	163	81.7	ug/kg	U	UJ	S
Dibenzo(a,h)Anthracene	53-70-3	81.7	163	81.7	ug/kg	U	UJ	S

Sample Name	LL3SS-296M-2015-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-01	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	82.8	166	82.8	ug/kg	U	UJ	S
Benzo(a)pyrene	50-32-8	82.8	166	82.8	ug/kg	U	UJ	S
Benzo(b)fluoranthene	205-99-2	82.8	166	82.8	ug/kg	U	UJ	S
Dibenzo(a,h)Anthracene	53-70-3	82.8	166	82.8	ug/kg	U	UJ	S

Sample Name	LL3SS-296M-2016-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	82.1	164	82.1	ug/kg	U	UJ	S
Benzo(a)pyrene	50-32-8	82.1	164	82.1	ug/kg	U	UJ	S
Benzo(b)fluoranthene	205-99-2	82.1	164	82.1	ug/kg	U	UJ	S
Dibenzo(a,h)Anthracene	53-70-3	82.1	164	82.1	ug/kg	U	UJ	S

Analysis Method 8270C

Sample Name	LL3SS-297M-2017-ER	AnalysisType: RES						
Lab Sample Name:	L10060526-12	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	2.55	10.2	2.55	ug/L	U	U	
Benzo(a)pyrene	50-32-8	2.55	10.2	2.55	ug/L	U	U	
Benzo(b)fluoranthene	205-99-2	2.55	10.2	2.55	ug/L	U	U	
Dibenzo(a,h)Anthracene	53-70-3	2.55	10.2	2.55	ug/L	U	U	

Sample Name	LL3SS-297M-2017-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-09	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	91	161	80.4	ug/kg	J	J	S
Benzo(a)pyrene	50-32-8	93	161	80.4	ug/kg	J	J	S
Benzo(b)fluoranthene	205-99-2	88.5	161	80.4	ug/kg	J	J	S
Dibenzo(a,h)Anthracene	53-70-3	85.2	161	80.4	ug/kg	J	J	S

Sample Name	LL3SS-297M-2018-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-10	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	105	165	82.6	ug/kg	J	J	S
Benzo(a)anthracene	56-55-3	80.2	160	80.2	ug/kg	U	UJ	S
Benzo(a)pyrene	50-32-8	105	165	82.6	ug/kg	J	J	S
Benzo(a)pyrene	50-32-8	80.2	160	80.2	ug/kg	U	UJ	S
Benzo(b)fluoranthene	205-99-2	80.2	160	80.2	ug/kg	U	UJ	S
Benzo(b)fluoranthene	205-99-2	98.5	165	82.6	ug/kg	J	J	S
Dibenzo(a,h)Anthracene	53-70-3	80.2	160	80.2	ug/kg	U	UJ	S
Dibenzo(a,h)Anthracene	53-70-3	82.6	165	82.6	ug/kg	U	UJ	S

Analysis Method 8330

Sample Name	LL3SS-253M-1185-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-05	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	38.5	0.25	0.0998	mg/kg	I	J-	Q
2,4,6-Trinitrotoluene	118-96-7	37.5	2.5	0.998	mg/kg		J-	S
2,4,6-Trinitrotoluene	118-96-7	37.3	2.5	0.998	mg/kg		J-	S
RDX	121-82-4	0.0998	0.25	0.0998	mg/kg	U	U	

Sample Name	LL3SS-253M-2002-SO	AnalysisType: CF						
Lab Sample Name:	L10060526-08	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	0.168	0.252	0.101	mg/kg	J	J	
2,4,6-Trinitrotoluene	118-96-7	0.195	0.252	0.101	mg/kg	J	J	
RDX	121-82-4	0.101	0.252	0.101	mg/kg	U	U	

Sample Name	LL3SS-292M-2003-SO	AnalysisType: CF						
Lab Sample Name:	L10060526-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	0.341	0.248	0.099	mg/kg		J-	H
2,4,6-Trinitrotoluene	118-96-7	0.334	0.248	0.099	mg/kg		J-	H
RDX	121-82-4	0.099	0.248	0.099	mg/kg	U	UJ	H

Sample Name	LL3SS-292M-2004-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	6.55	0.248	0.0992	mg/kg		J-	H
2,4,6-Trinitrotoluene	118-96-7	6.61	0.248	0.0992	mg/kg		J-	H
RDX	121-82-4	0.0992	0.248	0.0992	mg/kg	U	UJ	H

Analysis Method 8330

Sample Name	LL3SS-296M-2015-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-01	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	1.47	0.247	0.0988	mg/kg		J-	H
2,4,6-Trinitrotoluene	118-96-7	1.47	0.247	0.0988	mg/kg		J-	H
RDX	121-82-4	0.0988	0.247	0.0988	mg/kg	U	UJ	H

Sample Name	LL3SS-296M-2016-SO	AnalysisType: CF						
Lab Sample Name:	L10060526-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	0.471	0.249	0.0994	mg/kg		J-	H
2,4,6-Trinitrotoluene	118-96-7	0.496	0.249	0.0994	mg/kg		J-	H
RDX	121-82-4	0.0994	0.249	0.0994	mg/kg	U	UJ	H

Sample Name	LL3SS-297M-2017-ER	AnalysisType: RES						
Lab Sample Name:	L10060526-12	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	0.255	1.02	0.255	ug/L	U	U	
RDX	121-82-4	0.255	1.02	0.255	ug/L	U	U	

Sample Name	LL3SS-297M-2017-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-09	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	28.8	2.46	0.985	mg/kg		J-	S
2,4,6-Trinitrotoluene	118-96-7	29.3	2.46	0.985	mg/kg		J-	S
RDX	121-82-4	0.985	2.46	0.985	mg/kg	U	U	

Analysis Method 8330

Sample Name	LL3SS-297M-2018-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-10	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	2.66	0.252	0.101	mg/kg			
2,4,6-Trinitrotoluene	118-96-7	2.72	0.252	0.101	mg/kg			
RDX	121-82-4	0.101	0.252	0.101	mg/kg	U		U

Analysis Method *SM3500Cr-D 7196A*

Sample Name	LL3SS-253M-1185-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-05	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.1	0.201	0.1	mg/kg	U	U	

Sample Name	LL3SS-253M-2002-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-08	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0488	0.0976	0.0488	mg/kg	U	U	

Sample Name	LL3SS-292M-2003-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0506	0.101	0.0506	mg/kg	U	U	

Sample Name	LL3SS-292M-2004-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0505	0.101	0.0505	mg/kg	U	U	

Sample Name	LL3SS-296M-2015-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-01	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0507	0.101	0.0507	mg/kg	U	U	

Sample Name	LL3SS-296M-2016-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0497	0.0994	0.0497	mg/kg	U	U	

Analysis Method *SM3500Cr-D 7196A*

Sample Name	LL3SS-297M-2017-ER	AnalysisType: RES						
Lab Sample Name:	L10060526-12	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent	7440-47-3	0.005	0.01	0.005	mg/L	U	U	

Sample Name	LL3SS-297M-2017-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-09	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0964	0.193	0.0964	mg/kg	U	U	

Sample Name	LL3SS-297M-2018-SO	AnalysisType: RES						
Lab Sample Name:	L10060526-10	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0491	0.0981	0.0491	mg/kg	U	U	

Validated Sample Result Forms: L10060743

Analysis Method 6010B

Sample Name	LL2SS-284M-1243-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-05	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	9500	13.9	6.95	mg/kg			
Barium	7440-39-3	82.9	0.348	0.0695	mg/kg			
Cadmium	7440-43-9	0.321	0.0695	0.0348	mg/kg			
Chromium	7440-47-3	17.4	0.174	0.0834	mg/kg			
Manganese	7439-96-5	477	0.348	0.174	mg/kg			

Sample Name	LL2SS-284M-1285-ER	AnalysisType: RES						
Lab Sample Name:	L10060743-07	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	0.05	0.1	0.05	mg/L	U	U	
Barium	7440-39-3	0.0025	0.01	0.0025	mg/L	U	U	
Cadmium	7440-43-9	0.00025	0.0005	0.00025	mg/L	U	U	
Chromium	7440-47-3	0.109	0.005	0.0025	mg/L			
Manganese	7439-96-5	0.0937	0.01	0.005	mg/L			
Silver	7440-22-4	0.002	0.004	0.002	mg/L	U	U	

Sample Name	LL2SS-284M-1285-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-06	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	7700	14.8	7.39	mg/kg			
Barium	7440-39-3	56.8	0.369	0.0739	mg/kg			
Cadmium	7440-43-9	0.0731	0.0739	0.0369	mg/kg	J	J	
Chromium	7440-47-3	13.3	0.185	0.0886	mg/kg			
Manganese	7439-96-5	403	0.369	0.185	mg/kg			

Analysis Method 6010B

Sample Name	LL2SS-315M-1286-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-01	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	3250	15.3	7.66	mg/kg			
Barium	7440-39-3	32.3	0.383	0.0766	mg/kg			
Cadmium	7440-43-9	0.388	0.0766	0.0383	mg/kg		J-	I
Chromium	7440-47-3	19.8	0.191	0.0919	mg/kg			
Manganese	7439-96-5	308	0.383	0.191	mg/kg			

Sample Name	LL2SS-315M-1288-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	3030	15.3	7.66	mg/kg			
Barium	7440-39-3	34.9	0.383	0.0766	mg/kg			
Cadmium	7440-43-9	0.385	0.0766	0.0383	mg/kg			
Chromium	7440-47-3	13.9	0.192	0.0919	mg/kg			
Manganese	7439-96-5	322	0.383	0.192	mg/kg			

Sample Name	LL2SS-315M-1289-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	3010	15.1	7.54	mg/kg			
Barium	7440-39-3	29.4	0.377	0.0754	mg/kg			
Cadmium	7440-43-9	0.322	0.0754	0.0377	mg/kg			
Chromium	7440-47-3	9.72	0.188	0.0904	mg/kg			
Manganese	7439-96-5	322	0.377	0.188	mg/kg			

Analysis Method 6010B

Sample Name	LL2SS-315M-1290-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	3580	15	7.52	mg/kg			
Barium	7440-39-3	32.3	0.376	0.0752	mg/kg			
Cadmium	7440-43-9	0.452	0.0752	0.0376	mg/kg			
Chromium	7440-47-3	15.5	0.188	0.0902	mg/kg			
Manganese	7439-96-5	315	0.376	0.188	mg/kg			

Analysis Method 6020

Sample Name	LL2SS-284M-1243-SO	AnalysisType: RE						
Lab Sample Name:	L10060743-05	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.347	0.0995	0.0497	mg/kg			
Arsenic	7440-38-2	15	0.291	0.146	mg/kg			
Lead	7439-92-1	26.2	0.194	0.097	mg/kg		J	Q

Sample Name	LL2SS-284M-1285-ER	AnalysisType: RES						
Lab Sample Name:	L10060743-07	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.0005	0.001	0.0005	mg/L	U	U	
Arsenic	7440-38-2	0.0005	0.001	0.0005	mg/L	U	U	
Lead	7439-92-1	0.0005	0.001	0.0005	mg/L	U	U	

Sample Name	LL2SS-284M-1285-SO	AnalysisType: RE						
Lab Sample Name:	L10060743-06	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.355	0.101	0.0504	mg/kg			
Arsenic	7440-38-2	13.7	1.51	0.757	mg/kg			
Lead	7439-92-1	17.3	0.202	0.101	mg/kg		J	Q

Sample Name	LL2SS-315M-1286-SO	AnalysisType: RE						
Lab Sample Name:	L10060743-01	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.973	0.0958	0.0479	mg/kg			
Arsenic	7440-38-2	5.03	1.5	0.748	mg/kg			
Lead	7439-92-1	34.6	0.2	0.0998	mg/kg		J	Q, E

Analysis Method 6020

Sample Name	LL2SS-315M-1288-SO	AnalysisType: RE						
Lab Sample Name:	L10060743-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	1.2	0.0986	0.0493	mg/kg			
Arsenic	7440-38-2	3.51	1.48	0.741	mg/kg			
Lead	7439-92-1	38.2	0.198	0.0988	mg/kg		J	Q

Sample Name	LL2SS-315M-1289-SO	AnalysisType: RE						
Lab Sample Name:	L10060743-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	1.17	0.0992	0.0496	mg/kg			
Arsenic	7440-38-2	4.01	1.49	0.746	mg/kg			
Lead	7439-92-1	30.3	0.199	0.0994	mg/kg		J	Q

Sample Name	LL2SS-315M-1290-SO	AnalysisType: RE						
Lab Sample Name:	L10060743-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Antimony	7440-36-0	0.608	0.0999	0.05	mg/kg			
Arsenic	7440-38-2	8.41	1.5	0.752	mg/kg			
Lead	7439-92-1	73	1	0.502	mg/kg		J	Q

Analysis Method 8082

Sample Name	LL2SS-284M-1243-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-05	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.3	16.6	8.3	ug/kg	U	U	
Aroclor-1016	12674-11-2	8.3	16.6	8.3	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.3	16.6	8.3	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.3	16.6	8.3	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.3	16.6	8.3	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.3	16.6	8.3	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.3	16.6	8.3	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.3	16.6	8.3	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.3	16.6	8.3	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.3	16.6	8.3	ug/kg	U	U	
Aroclor-1254	11097-69-1	379	16.6	8.3	ug/kg			
Aroclor-1254	11097-69-1	406	16.6	8.3	ug/kg			
Aroclor-1260	11096-82-5	8.3	16.6	8.3	ug/kg	U	U	
Aroclor-1260	11096-82-5	8.3	16.6	8.3	ug/kg	U	U	

Sample Name	LL2SS-284M-1285-ER	AnalysisType: RES						
Lab Sample Name:	L10060743-07	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	0.266	0.532	0.266	ug/L	U	U	
Aroclor-1221	11104-28-2	0.266	0.532	0.266	ug/L	U	U	
Aroclor-1232	11141-16-5	0.266	0.532	0.266	ug/L	U	U	
Aroclor-1242	53469-21-9	0.266	0.532	0.266	ug/L	U	U	
Aroclor-1248	12672-29-6	0.266	0.532	0.266	ug/L	U	U	
Aroclor-1254	11097-69-1	0.266	0.532	0.266	ug/L	U	U	
Aroclor-1260	11096-82-5	0.266	0.532	0.266	ug/L	U	U	

Analysis Method 8082

Sample Name	LL2SS-284M-1285-SO	AnalysisType:	RES						
Lab Sample Name:	L10060743-06	Validation Level:	ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code	
Aroclor-1016	12674-11-2	8.16	16.3	8.16	ug/kg	U	U		
Aroclor-1016	12674-11-2	8.16	16.3	8.16	ug/kg	U	U		
Aroclor-1221	11104-28-2	8.16	16.3	8.16	ug/kg	U	U		
Aroclor-1221	11104-28-2	8.16	16.3	8.16	ug/kg	U	U		
Aroclor-1232	11141-16-5	8.16	16.3	8.16	ug/kg	U	U		
Aroclor-1232	11141-16-5	8.16	16.3	8.16	ug/kg	U	U		
Aroclor-1242	53469-21-9	8.16	16.3	8.16	ug/kg	U	U		
Aroclor-1242	53469-21-9	8.16	16.3	8.16	ug/kg	U	U		
Aroclor-1248	12672-29-6	8.16	16.3	8.16	ug/kg	U	U		
Aroclor-1248	12672-29-6	8.16	16.3	8.16	ug/kg	U	U		
Aroclor-1254	11097-69-1	131	16.3	8.16	ug/kg				
Aroclor-1254	11097-69-1	116	16.3	8.16	ug/kg				
Aroclor-1260	11096-82-5	8.16	16.3	8.16	ug/kg	U	U		
Aroclor-1260	11096-82-5	8.16	16.3	8.16	ug/kg	U	U		

Analysis Method 8082

Sample Name		LL2SS-315M-1286-SO		AnalysisType: RES				
Lab Sample Name:		L10060743-01		Validation Level: IV				
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.17	16.3	8.17	ug/kg	U	U	
Aroclor-1016	12674-11-2	8.17	16.3	8.17	ug/kg	U	R	D
Aroclor-1221	11104-28-2	8.17	16.3	8.17	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.17	16.3	8.17	ug/kg	U	R	D
Aroclor-1232	11141-16-5	8.17	16.3	8.17	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.17	16.3	8.17	ug/kg	U	R	D
Aroclor-1242	53469-21-9	8.17	16.3	8.17	ug/kg	U	R	D
Aroclor-1242	53469-21-9	8.17	16.3	8.17	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.17	16.3	8.17	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.17	16.3	8.17	ug/kg	U	R	D
Aroclor-1254	11097-69-1	508	16.3	8.17	ug/kg		R	D
Aroclor-1254	11097-69-1	480	16.3	8.17	ug/kg			
Aroclor-1260	11096-82-5	8.17	16.3	8.17	ug/kg	U	U	
Aroclor-1260	11096-82-5	8.17	16.3	8.17	ug/kg	U	R	D

Analysis Method 8082

Sample Name	LL2SS-315M-1288-SO	AnalysisType:	RES					
Lab Sample Name:	L10060743-02	Validation Level:	ADR					
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.05	16.1	8.05	ug/kg	U	U	
Aroclor-1016	12674-11-2	8.05	16.1	8.05	ug/kg	U	R	D
Aroclor-1221	11104-28-2	8.05	16.1	8.05	ug/kg	U	R	D
Aroclor-1221	11104-28-2	8.05	16.1	8.05	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.05	16.1	8.05	ug/kg	U	R	D
Aroclor-1232	11141-16-5	8.05	16.1	8.05	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.05	16.1	8.05	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.05	16.1	8.05	ug/kg	U	R	D
Aroclor-1248	12672-29-6	8.05	16.1	8.05	ug/kg	U	R	D
Aroclor-1248	12672-29-6	8.05	16.1	8.05	ug/kg	U	U	
Aroclor-1254	11097-69-1	516	16.1	8.05	ug/kg			
Aroclor-1254	11097-69-1	546	16.1	8.05	ug/kg		R	D
Aroclor-1260	11096-82-5	8.05	16.1	8.05	ug/kg	U	R	D
Aroclor-1260	11096-82-5	8.05	16.1	8.05	ug/kg	U	U	

Analysis Method 8082

Sample Name	LL2SS-315M-1289-SO	AnalysisType:	CF					
Lab Sample Name:	L10060743-03	Validation Level:	ADR					
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.09	16.2	8.09	ug/kg	U	R	D
Aroclor-1016	12674-11-2	8.09	16.2	8.09	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.09	16.2	8.09	ug/kg	U	R	D
Aroclor-1221	11104-28-2	8.09	16.2	8.09	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.09	16.2	8.09	ug/kg	U	R	D
Aroclor-1232	11141-16-5	8.09	16.2	8.09	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.09	16.2	8.09	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.09	16.2	8.09	ug/kg	U	R	D
Aroclor-1248	12672-29-6	8.09	16.2	8.09	ug/kg	U	R	D
Aroclor-1248	12672-29-6	8.09	16.2	8.09	ug/kg	U	U	
Aroclor-1254	11097-69-1	351	16.2	8.09	ug/kg			
Aroclor-1254	11097-69-1	393	16.2	8.09	ug/kg		R	D
Aroclor-1260	11096-82-5	8.09	16.2	8.09	ug/kg	U	R	D
Aroclor-1260	11096-82-5	8.09	16.2	8.09	ug/kg	U	U	

Analysis Method 8082

Sample Name	LL2SS-315M-1290-SO	AnalysisType:	RES					
Lab Sample Name:	L10060743-04	Validation Level:	ADR					
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor-1016	12674-11-2	8.07	16.1	8.07	ug/kg	U	U	
Aroclor-1016	12674-11-2	80.7	161	80.7	ug/kg	U	U	
Aroclor-1016	12674-11-2	80.7	161	80.7	ug/kg	U	U	
Aroclor-1221	11104-28-2	80.7	161	80.7	ug/kg	U	U	
Aroclor-1221	11104-28-2	80.7	161	80.7	ug/kg	U	U	
Aroclor-1221	11104-28-2	8.07	16.1	8.07	ug/kg	U	U	
Aroclor-1232	11141-16-5	80.7	161	80.7	ug/kg	U	U	
Aroclor-1232	11141-16-5	8.07	16.1	8.07	ug/kg	U	U	
Aroclor-1232	11141-16-5	80.7	161	80.7	ug/kg	U	U	
Aroclor-1242	53469-21-9	80.7	161	80.7	ug/kg	U	U	
Aroclor-1242	53469-21-9	8.07	16.1	8.07	ug/kg	U	U	
Aroclor-1242	53469-21-9	80.7	161	80.7	ug/kg	U	U	
Aroclor-1248	12672-29-6	80.7	161	80.7	ug/kg	U	U	
Aroclor-1248	12672-29-6	80.7	161	80.7	ug/kg	U	U	
Aroclor-1248	12672-29-6	8.07	16.1	8.07	ug/kg	U	U	
Aroclor-1254	11097-69-1	861	16.1	8.07	ug/kg	I		
Aroclor-1254	11097-69-1	1050	161	80.7	ug/kg		J+	S
Aroclor-1254	11097-69-1	987	161	80.7	ug/kg		J+	S
Aroclor-1260	11096-82-5	80.7	161	80.7	ug/kg	U	U	
Aroclor-1260	11096-82-5	8.07	16.1	8.07	ug/kg	U	U	
Aroclor-1260	11096-82-5	80.7	161	80.7	ug/kg	U	U	

Analysis Method 8270C

Sample Name	LL2SS-284M-1243-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-05	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	102	163	81.5	ug/kg	J	J	S
Benzo(a)pyrene	50-32-8	101	163	81.5	ug/kg	J	J	S
Benzo(b)fluoranthene	205-99-2	83.8	163	81.5	ug/kg	J	J	S
Dibenzo(a,h)Anthracene	53-70-3	81.5	163	81.5	ug/kg	U	UJ	S

Sample Name	LL2SS-284M-1285-ER	AnalysisType: RES						
Lab Sample Name:	L10060743-07	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	2.72	10.9	2.72	ug/L	U	U	
Benzo(a)pyrene	50-32-8	2.72	10.9	2.72	ug/L	U	U	
Benzo(b)fluoranthene	205-99-2	2.72	10.9	2.72	ug/L	U	U	
Dibenzo(a,h)Anthracene	53-70-3	2.72	10.9	2.72	ug/L	U	U	

Sample Name	LL2SS-284M-1285-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-06	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	81.3	163	81.3	ug/kg	U	UJ	S
Benzo(a)pyrene	50-32-8	81.3	163	81.3	ug/kg	U	UJ	S
Benzo(b)fluoranthene	205-99-2	81.3	163	81.3	ug/kg	U	UJ	S
Dibenzo(a,h)Anthracene	53-70-3	81.3	163	81.3	ug/kg	U	UJ	S

Analysis Method 8270C

Sample Name	LL2SS-315M-1286-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-01	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	1010	819	410	ug/kg			
Benzo(a)pyrene	50-32-8	1130	819	410	ug/kg			
Benzo(b)fluoranthene	205-99-2	957	819	410	ug/kg			
Dibenzo(a,h)Anthracene	53-70-3	410	819	410	ug/kg	U		U

Sample Name	LL2SS-315M-1288-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	821	802	401	ug/kg			
Benzo(a)pyrene	50-32-8	864	802	401	ug/kg			
Benzo(b)fluoranthene	205-99-2	751	802	401	ug/kg	J		J
Dibenzo(a,h)Anthracene	53-70-3	401	802	401	ug/kg	U		U

Sample Name	LL2SS-315M-1289-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	420	163	81.7	ug/kg			
Benzo(a)pyrene	50-32-8	452	163	81.7	ug/kg			
Benzo(b)fluoranthene	205-99-2	358	163	81.7	ug/kg			
Dibenzo(a,h)Anthracene	53-70-3	153	163	81.7	ug/kg	J		J

Analysis Method 8270C

Sample Name	LL2SS-315M-1290-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	372	159	79.3	ug/kg			
Benzo(a)pyrene	50-32-8	420	159	79.3	ug/kg			
Benzo(b)fluoranthene	205-99-2	343	159	79.3	ug/kg			
Dibenzo(a,h)Anthracene	53-70-3	145	159	79.3	ug/kg	J	J	

Analysis Method 8330

Sample Name	LL2SS-284M-1243-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-05	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	5.39	0.247	0.0987	mg/kg			
2,4,6-Trinitrotoluene	118-96-7	5.49	0.247	0.0987	mg/kg			
RDX	121-82-4	0.0987	0.247	0.0987	mg/kg	U	U	

Sample Name	LL2SS-284M-1285-ER	AnalysisType: RES						
Lab Sample Name:	L10060743-07	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	0.266	1.06	0.266	ug/L	U	U	
RDX	121-82-4	0.266	1.06	0.266	ug/L	U	U	

Sample Name	LL2SS-284M-1285-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-06	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	2.05	0.249	0.0995	mg/kg			
2,4,6-Trinitrotoluene	118-96-7	2.08	0.249	0.0995	mg/kg			
RDX	121-82-4	0.0995	0.249	0.0995	mg/kg	U	U	

Sample Name	LL2SS-315M-1286-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-01	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	45.3	2.48	0.993	mg/kg		R	D
2,4,6-Trinitrotoluene	118-96-7	46.4	2.48	0.993	mg/kg			
RDX	121-82-4	9.65	2.48	0.993	mg/kg			
RDX	121-82-4	9.08	2.48	0.993	mg/kg		R	D

Analysis Method 8330

Sample Name	LL2SS-315M-1288-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	51.8	4.93	1.97	mg/kg			
2,4,6-Trinitrotoluene	118-96-7	52.4	4.93	1.97	mg/kg			
RDX	121-82-4	17.9	4.93	1.97	mg/kg			
RDX	121-82-4	18.2	4.93	1.97	mg/kg			

Sample Name	LL2SS-315M-1289-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	60.8	2.47	0.988	mg/kg		J-	S
2,4,6-Trinitrotoluene	118-96-7	61.4	2.47	0.988	mg/kg		J-	S
RDX	121-82-4	7.81	2.47	0.988	mg/kg		J-	S
RDX	121-82-4	7.19	2.47	0.988	mg/kg		J-	S

Sample Name	LL2SS-315M-1290-SO	AnalysisType: CFDL						
Lab Sample Name:	L10060743-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
2,4,6-Trinitrotoluene	118-96-7	15	1.25	0.501	mg/kg		J-	S
2,4,6-Trinitrotoluene	118-96-7	14.6	1.25	0.501	mg/kg		J-	S
RDX	121-82-4	2.24	1.25	0.501	mg/kg		J-	S
RDX	121-82-4	1.32	1.25	0.501	mg/kg		J-	S

Analysis Method SM3500Cr-D 7196A

Sample Name	LL2SS-284M-1243-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-05	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.242	0.484	0.242	mg/kg	U	U	
Sample Name	LL2SS-284M-1285-ER	AnalysisType: RES						
Lab Sample Name:	L10060743-07	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent	7440-47-3	0.005	0.01	0.005	mg/L	U	U	
Sample Name	LL2SS-284M-1285-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-06	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0493	0.0985	0.0493	mg/kg	U	U	
Sample Name	LL2SS-315M-1286-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-01	Validation Level: IV						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0488	0.0977	0.0488	mg/kg	U	UJ	Q
Sample Name	LL2SS-315M-1288-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-02	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0479	0.0957	0.0479	mg/kg	U	U	
Sample Name	LL2SS-315M-1289-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-03	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0999	0.2	0.0999	mg/kg	U	U	

Analysis Method *SM3500Cr-D 7196A*

Sample Name	LL2SS-315M-1290-SO	AnalysisType: RES						
Lab Sample Name:	L10060743-04	Validation Level: ADR						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Chromium, Hexavalent, Leachable	7440-47-3	0.0488	0.0976	0.0488	mg/kg	U	U	

APPENDIX B

Sample Qualification Summary

Sample	Analyte	Result	RL	MDL	Units	Qualifier	Code	Val Level
LL2SS-284M-1243-SO	Lead	26.2	0.194	0.097	mg/kg	J	Q	ADR
LL2SS-284M-1243-SO	Benzo(a)anthracene	102	163	81.5	ug/kg	J	S	ADR
LL2SS-284M-1243-SO	Benzo(a)pyrene	101	163	81.5	ug/kg	J	S	ADR
LL2SS-284M-1243-SO	Benzo(b)fluoranthene	83.8	163	81.5	ug/kg	J	S	ADR
LL2SS-284M-1243-SO	Dibenzo(a,h)Anthracene	81.5	163	81.5	ug/kg	UJ	S	ADR
LL2SS-284M-1285-SO	Lead	17.3	0.202	0.101	mg/kg	J	Q	ADR
LL2SS-284M-1285-SO	Benzo(a)anthracene	81.3	163	81.3	ug/kg	UJ	S	ADR
LL2SS-284M-1285-SO	Benzo(a)pyrene	81.3	163	81.3	ug/kg	UJ	S	ADR
LL2SS-284M-1285-SO	Benzo(b)fluoranthene	81.3	163	81.3	ug/kg	UJ	S	ADR
LL2SS-284M-1285-SO	Dibenzo(a,h)Anthracene	81.3	163	81.3	ug/kg	UJ	S	ADR
LL2SS-315M-1286-SO	Lead	34.6	0.2	0.0998	mg/kg	J	Q, E	IV
LL2SS-315M-1286-SO	Cadmium	0.388	0.0766	0.0383	mg/kg	J-	I	IV
LL2SS-315M-1286-SO	Hexavalent chromium	0.0488	0.0977	0.0488	mg/kg	UJ	Q	IV
LL2SS-315M-1288-SO	Lead	38.2	0.198	0.0988	mg/kg	J	Q	ADR
LL2SS-315M-1289-SO	Lead	30.3	0.199	0.0994	mg/kg	J	Q	ADR
LL2SS-315M-1289-SO	2,4,6-Trinitrotoluene	61.4	2.47	0.988	mg/kg	J-	S	ADR
LL2SS-315M-1289-SO	2,4,6-Trinitrotoluene	60.8	2.47	0.988	mg/kg	J-	S	ADR
LL2SS-315M-1289-SO	RDX	7.19	2.47	0.988	mg/kg	J-	S	ADR
LL2SS-315M-1289-SO	RDX	7.81	2.47	0.988	mg/kg	J-	S	ADR
LL2SS-315M-1290-SO	Lead	73	1	0.502	mg/kg	J	Q	ADR
LL2SS-315M-1290-SO	Aroclor-1254	1050	161	80.7	ug/kg	J+	S	ADR
LL2SS-315M-1290-SO	Aroclor-1254	987	161	80.7	ug/kg	J+	S	ADR
LL2SS-315M-1290-SO	2,4,6-Trinitrotoluene	15	1.25	0.501	mg/kg	J-	S	ADR
LL2SS-315M-1290-SO	2,4,6-Trinitrotoluene	14.6	1.25	0.501	mg/kg	J-	S	ADR
LL2SS-315M-1290-SO	RDX	2.24	1.25	0.501	mg/kg	J-	S	ADR
LL2SS-315M-1290-SO	RDX	1.32	1.25	0.501	mg/kg	J-	S	ADR
LL3SS-253M-1185-SO	Arsenic	14.8	0.288	0.144	mg/kg	J-	Q	ADR
LL3SS-253M-1185-SO	Lead	35.2	0.192	0.0961	mg/kg	J	Q	ADR
LL3SS-253M-1185-SO	2,4,6-Trinitrotoluene	37.5	2.5	0.998	mg/kg	J-	S	ADR
LL3SS-253M-1185-SO	2,4,6-Trinitrotoluene	37.3	2.5	0.998	mg/kg	J-	S	ADR
LL3SS-253M-1185-SO	2,4,6-Trinitrotoluene	38.5	0.25	0.0998	mg/kg	J-	Q	ADR
LL3SS-253M-1185-SO	Aluminum	5840	15.1	7.56	mg/kg	J+	Q	ADR
LL3SS-253M-1185-SO	Manganese	542	0.378	0.189	mg/kg	J-	Q	ADR
LL3SS-253M-1185-SO	Benzo(a)anthracene	124	164	82.2	ug/kg	J	S	ADR
LL3SS-253M-1185-SO	Benzo(a)pyrene	147	164	82.2	ug/kg	J	S	ADR
LL3SS-253M-1185-SO	Benzo(b)fluoranthene	124	164	82.2	ug/kg	J	S	ADR
LL3SS-253M-1185-SO	Dibenzo(a,h)Anthracene	86.2	164	82.2	ug/kg	J	S	ADR
LL3SS-253M-2002-SO	Arsenic	10.3	0.293	0.147	mg/kg	J-	Q	ADR
LL3SS-253M-2002-SO	Lead	21.2	0.196	0.0978	mg/kg	J	Q	ADR
LL3SS-253M-2002-SO	Aluminum	5090	14.2	7.08	mg/kg	J+	Q	ADR
LL3SS-253M-2002-SO	Manganese	384	0.354	0.177	mg/kg	J-	Q	ADR
LL3SS-253M-2002-SO	Benzo(a)anthracene	89.7	159	79.6	ug/kg	J	S	ADR
LL3SS-253M-2002-SO	Benzo(a)pyrene	95.9	159	79.6	ug/kg	J	S	ADR
LL3SS-253M-2002-SO	Benzo(b)fluoranthene	79.6	159	79.6	ug/kg	UJ	S	ADR
LL3SS-253M-2002-SO	Dibenzo(a,h)Anthracene	79.6	159	79.6	ug/kg	UJ	S	ADR
LL3SS-261M-1200-SO	Benzo(a)anthracene	323	161	80.7	ug/kg	J-	S	ADR
LL3SS-261M-1200-SO	Benzo(a)pyrene	249	161	80.7	ug/kg	J-	S	ADR
LL3SS-261M-1200-SO	Benzo(b)fluoranthene	200	161	80.7	ug/kg	J-	S	ADR
LL3SS-261M-1200-SO	Dibenzo(a,h)Anthracene	80.7	161	80.7	ug/kg	UJ	S	ADR
LL3SS-261M-2007-SO	Benzo(a)anthracene	1110	811	405	ug/kg	J-	S	ADR
LL3SS-261M-2007-SO	Benzo(a)pyrene	854	811	405	ug/kg	J-	S	ADR

Sample	Analyte	Result	RL	MDL	Units	Qualifier	Code	Val Level
LL3SS-261M-2007-SO	Benzo(b)fluoranthene	618	811	405	ug/kg	J	S	ADR
LL3SS-261M-2007-SO	Dibenzo(a,h)Anthracene	405	811	405	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Arsenic	13	0.284	0.142	mg/kg	J-	Q	ADR
LL3SS-292M-2003-SO	Lead	13.4	0.19	0.0948	mg/kg	J	Q	ADR
LL3SS-292M-2003-SO	Aroclor-1016	8.19	16.4	8.19	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Aroclor-1016	8.19	16.4	8.19	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Aroclor-1221	8.19	16.4	8.19	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Aroclor-1221	8.19	16.4	8.19	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Aroclor-1232	8.19	16.4	8.19	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Aroclor-1232	8.19	16.4	8.19	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Aroclor-1242	8.19	16.4	8.19	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Aroclor-1242	8.19	16.4	8.19	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Aroclor-1248	8.19	16.4	8.19	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Aroclor-1248	8.19	16.4	8.19	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Aroclor-1254	23.1	16.4	8.19	ug/kg	J-	S	ADR
LL3SS-292M-2003-SO	Aroclor-1254	19.3	16.4	8.19	ug/kg	J-	S	ADR
LL3SS-292M-2003-SO	Aroclor-1260	8.19	16.4	8.19	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Aroclor-1260	8.19	16.4	8.19	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	2,4,6-Trinitrotoluene	0.341	0.248	0.099	mg/kg	J-	H	ADR
LL3SS-292M-2003-SO	2,4,6-Trinitrotoluene	0.334	0.248	0.099	mg/kg	J-	H	ADR
LL3SS-292M-2003-SO	RDX	0.099	0.248	0.099	mg/kg	UJ	H	ADR
LL3SS-292M-2003-SO	Aluminum	11800	15.1	7.54	mg/kg	J+	Q	ADR
LL3SS-292M-2003-SO	Manganese	375	0.377	0.189	mg/kg	J-	Q	ADR
LL3SS-292M-2003-SO	Benzo(a)anthracene	81.4	163	81.4	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Benzo(a)pyrene	81.4	163	81.4	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Benzo(b)fluoranthene	81.4	163	81.4	ug/kg	UJ	S	ADR
LL3SS-292M-2003-SO	Dibenzo(a,h)Anthracene	81.4	163	81.4	ug/kg	UJ	S	ADR
LL3SS-292M-2004-SO	Arsenic	12	0.295	0.148	mg/kg	J-	Q	ADR
LL3SS-292M-2004-SO	Lead	15.6	0.197	0.0984	mg/kg	J	Q	ADR
LL3SS-292M-2004-SO	Aroclor-1016	8.09	16.2	8.09	ug/kg	UJ	H	ADR
LL3SS-292M-2004-SO	Aroclor-1016	8.09	16.2	8.09	ug/kg	UJ	H	ADR
LL3SS-292M-2004-SO	Aroclor-1221	8.09	16.2	8.09	ug/kg	UJ	H	ADR
LL3SS-292M-2004-SO	Aroclor-1221	8.09	16.2	8.09	ug/kg	UJ	H	ADR
LL3SS-292M-2004-SO	Aroclor-1232	8.09	16.2	8.09	ug/kg	UJ	H	ADR
LL3SS-292M-2004-SO	Aroclor-1232	8.09	16.2	8.09	ug/kg	UJ	H	ADR
LL3SS-292M-2004-SO	Aroclor-1242	8.09	16.2	8.09	ug/kg	UJ	H	ADR
LL3SS-292M-2004-SO	Aroclor-1242	8.09	16.2	8.09	ug/kg	UJ	H	ADR
LL3SS-292M-2004-SO	Aroclor-1248	8.09	16.2	8.09	ug/kg	UJ	H	ADR
LL3SS-292M-2004-SO	Aroclor-1248	8.09	16.2	8.09	ug/kg	UJ	H	ADR
LL3SS-292M-2004-SO	Aroclor-1254	104	16.2	8.09	ug/kg	J-	H	ADR
LL3SS-292M-2004-SO	Aroclor-1254	94.2	16.2	8.09	ug/kg	J-	H	ADR
LL3SS-292M-2004-SO	Aroclor-1260	8.09	16.2	8.09	ug/kg	UJ	H	ADR
LL3SS-292M-2004-SO	Aroclor-1260	8.09	16.2	8.09	ug/kg	UJ	H	ADR
LL3SS-292M-2004-SO	2,4,6-Trinitrotoluene	6.61	0.248	0.0992	mg/kg	J-	H	ADR
LL3SS-292M-2004-SO	2,4,6-Trinitrotoluene	6.55	0.248	0.0992	mg/kg	J-	H	ADR
LL3SS-292M-2004-SO	RDX	0.0992	0.248	0.0992	mg/kg	UJ	H	ADR
LL3SS-292M-2004-SO	Aluminum	11500	13.6	6.81	mg/kg	J+	Q	ADR
LL3SS-292M-2004-SO	Manganese	413	0.34	0.17	mg/kg	J-	Q	ADR
LL3SS-292M-2004-SO	Benzo(a)anthracene	88.9	163	81.7	ug/kg	J	S	ADR
LL3SS-292M-2004-SO	Benzo(a)pyrene	81.7	163	81.7	ug/kg	UJ	S	ADR
LL3SS-292M-2004-SO	Benzo(b)fluoranthene	81.7	163	81.7	ug/kg	UJ	S	ADR

Sample	Analyte	Result	RL	MDL	Units	Qualifier	Code	Val Level
LL3SS-292M-2004-SO	Dibenzo(a,h)Anthracene	81.7	163	81.7	ug/kg	UJ	S	ADR
LL3SS-293M-2005-SO	Arsenic	17.1	0.292	0.146	mg/kg	J-	A	IV
LL3SS-293M-2005-SO	Hexavalent chromium	0.0483	0.0966	0.0483	mg/kg	UJ	Q	IV
LL3SS-293M-2006-SO	Aroclor-1254	72.1	16.2	8.11	ug/kg	J+	S	ADR
LL3SS-293M-2006-SO	Benzo(a)anthracene	8660	1620	809	ug/kg	J-	S	ADR
LL3SS-293M-2006-SO	Benzo(a)pyrene	6620	1620	809	ug/kg	J-	S	ADR
LL3SS-293M-2006-SO	Benzo(b)fluoranthene	6240	1620	809	ug/kg	J-	S	ADR
LL3SS-293M-2006-SO	Dibenzo(a,h)Anthracene	944	1620	809	ug/kg	J	S	ADR
LL3SS-294M-2008-SO	Benzo(a)anthracene	80.2	160	80.2	ug/kg	UJ	S	IV
LL3SS-294M-2008-SO	Benzo(a)pyrene	80.2	160	80.2	ug/kg	UJ	S	IV
LL3SS-294M-2008-SO	Benzo(b)fluoranthene	80.2	160	80.2	ug/kg	UJ	S	IV
LL3SS-294M-2008-SO	Dibenzo(a,h)Anthracene	80.2	160	80.2	ug/kg	UJ	S	IV
LL3SS-294M-2008-SO	Hexavalent chromium	0.0491	0.0982	0.0491	mg/kg	UJ	Q	IV
LL3SS-294M-2010-SO	2,4,6-Trinitrotoluene	0.843	0.251	0.1	mg/kg	J+	S	ADR
LL3SS-294M-2010-SO	RDX	0.591	0.251	0.1	mg/kg	J+	S	ADR
LL3SS-294M-2010-SO	Benzo(a)anthracene	81.4	163	81.4	ug/kg	UJ	S	ADR
LL3SS-294M-2010-SO	Benzo(a)pyrene	81.4	163	81.4	ug/kg	UJ	S	ADR
LL3SS-294M-2010-SO	Benzo(b)fluoranthene	81.4	163	81.4	ug/kg	UJ	S	ADR
LL3SS-294M-2010-SO	Dibenzo(a,h)Anthracene	81.4	163	81.4	ug/kg	UJ	S	ADR
LL3SS-294M-2011-SO	Benzo(a)anthracene	82.3	165	82.3	ug/kg	UJ	S	ADR
LL3SS-294M-2011-SO	Benzo(a)pyrene	82.3	165	82.3	ug/kg	UJ	S	ADR
LL3SS-294M-2011-SO	Benzo(b)fluoranthene	82.3	165	82.3	ug/kg	UJ	S	ADR
LL3SS-294M-2011-SO	Dibenzo(a,h)Anthracene	82.3	165	82.3	ug/kg	UJ	S	ADR
LL3SS-294M-2012-SO	Aroclor-1254	228	16.6	8.28	ug/kg	J+	C	ADR
LL3SS-295M-2013-SO	Aroclor-1254	361	16.3	8.15	ug/kg	J+	S	ADR
LL3SS-295M-2013-SO	Aluminum	9990	69	34.5	mg/kg	J+	Q	ADR
LL3SS-295M-2013-SO	Manganese	536	0.345	0.173	mg/kg	J-	Q	ADR
LL3SS-295M-2013-SO	Benzo(a)anthracene	80.1	160	80.1	ug/kg	UJ	S	ADR
LL3SS-295M-2013-SO	Benzo(a)pyrene	80.1	160	80.1	ug/kg	UJ	S	ADR
LL3SS-295M-2013-SO	Benzo(b)fluoranthene	80.1	160	80.1	ug/kg	UJ	S	ADR
LL3SS-295M-2013-SO	Dibenzo(a,h)Anthracene	80.1	160	80.1	ug/kg	UJ	S	ADR
LL3SS-295M-2014-ER	Barium	0.0038	0.01	0.0025	mg/L	UJ	B	ADR
LL3SS-295M-2014-SO	Aroclor-1254	73.1	16.6	8.32	ug/kg	J+	C	ADR
LL3SS-295M-2014-SO	2,4,6-Trinitrotoluene	787	0.247	0.0988	mg/kg	J-	S	ADR
LL3SS-295M-2014-SO	RDX	0.288	0.247	0.0988	mg/kg	J-	S	ADR
LL3SS-295M-2014-SO	Aluminum	9920	15.2	7.58	mg/kg	J+	Q	ADR
LL3SS-295M-2014-SO	Manganese	318	0.379	0.19	mg/kg	J-	Q	ADR
LL3SS-296M-2015-SO	Arsenic	14.5	0.293	0.147	mg/kg	J-	Q	ADR
LL3SS-296M-2015-SO	Lead	15.7	0.196	0.0978	mg/kg	J	Q	ADR
LL3SS-296M-2015-SO	Aroclor-1016	8.23	16.5	8.23	ug/kg	UJ	H	ADR
LL3SS-296M-2015-SO	Aroclor-1016	8.23	16.5	8.23	ug/kg	UJ	H	ADR
LL3SS-296M-2015-SO	Aroclor-1221	8.23	16.5	8.23	ug/kg	UJ	H	ADR
LL3SS-296M-2015-SO	Aroclor-1221	8.23	16.5	8.23	ug/kg	UJ	H	ADR
LL3SS-296M-2015-SO	Aroclor-1232	8.23	16.5	8.23	ug/kg	UJ	H	ADR
LL3SS-296M-2015-SO	Aroclor-1232	8.23	16.5	8.23	ug/kg	UJ	H	ADR
LL3SS-296M-2015-SO	Aroclor-1242	8.23	16.5	8.23	ug/kg	UJ	H	ADR
LL3SS-296M-2015-SO	Aroclor-1242	8.23	16.5	8.23	ug/kg	UJ	H	ADR
LL3SS-296M-2015-SO	Aroclor-1248	8.23	16.5	8.23	ug/kg	UJ	H	ADR
LL3SS-296M-2015-SO	Aroclor-1248	8.23	16.5	8.23	ug/kg	UJ	H	ADR
LL3SS-296M-2015-SO	Aroclor-1254	24.7	16.5	8.23	ug/kg	J-	H	ADR
LL3SS-296M-2015-SO	Aroclor-1254	19.9	16.5	8.23	ug/kg	J-	H	ADR

Sample	Analyte	Result	RL	MDL	Units	Qualifier	Code	Val Level
LL3SS-296M-2015-SO	Aroclor-1260	8.23	16.5	8.23	ug/kg	UJ	H	ADR
LL3SS-296M-2015-SO	Aroclor-1260	8.23	16.5	8.23	ug/kg	UJ	H	ADR
LL3SS-296M-2015-SO	2,4,6-Trinitrotoluene	1.47	0.247	0.0988	mg/kg	J-	H	ADR
LL3SS-296M-2015-SO	2,4,6-Trinitrotoluene	1.47	0.247	0.0988	mg/kg	J-	H	ADR
LL3SS-296M-2015-SO	RDX	0.0988	0.247	0.0988	mg/kg	UJ	H	ADR
LL3SS-296M-2015-SO	Aluminum	9430	15.1	7.54	mg/kg	J+	Q	ADR
LL3SS-296M-2015-SO	Manganese	359	0.377	0.188	mg/kg	J-	Q	ADR
LL3SS-296M-2015-SO	Benzo(a)anthracene	82.8	166	82.8	ug/kg	UJ	S	ADR
LL3SS-296M-2015-SO	Benzo(a)pyrene	82.8	166	82.8	ug/kg	UJ	S	ADR
LL3SS-296M-2015-SO	Benzo(b)fluoranthene	82.8	166	82.8	ug/kg	UJ	S	ADR
LL3SS-296M-2015-SO	Dibenzo(a,h)Anthracene	82.8	166	82.8	ug/kg	UJ	S	ADR
LL3SS-296M-2016-SO	Arsenic	13.9	0.294	0.147	mg/kg	J-	Q	ADR
LL3SS-296M-2016-SO	Lead	16.4	0.196	0.0978	mg/kg	J	Q	ADR
LL3SS-296M-2016-SO	Aroclor-1016	8.07	16.1	8.07	ug/kg	UJ	H	ADR
LL3SS-296M-2016-SO	Aroclor-1016	8.07	16.1	8.07	ug/kg	UJ	H	ADR
LL3SS-296M-2016-SO	Aroclor-1221	8.07	16.1	8.07	ug/kg	UJ	H	ADR
LL3SS-296M-2016-SO	Aroclor-1221	8.07	16.1	8.07	ug/kg	UJ	H	ADR
LL3SS-296M-2016-SO	Aroclor-1232	8.07	16.1	8.07	ug/kg	UJ	H	ADR
LL3SS-296M-2016-SO	Aroclor-1232	8.07	16.1	8.07	ug/kg	UJ	H	ADR
LL3SS-296M-2016-SO	Aroclor-1242	8.07	16.1	8.07	ug/kg	UJ	H	ADR
LL3SS-296M-2016-SO	Aroclor-1242	8.07	16.1	8.07	ug/kg	UJ	H	ADR
LL3SS-296M-2016-SO	Aroclor-1248	8.07	16.1	8.07	ug/kg	UJ	H	ADR
LL3SS-296M-2016-SO	Aroclor-1248	8.07	16.1	8.07	ug/kg	UJ	H	ADR
LL3SS-296M-2016-SO	Aroclor-1254	41	16.1	8.07	ug/kg	J-	H	ADR
LL3SS-296M-2016-SO	Aroclor-1254	47.3	16.1	8.07	ug/kg	J-	H	ADR
LL3SS-296M-2016-SO	Aroclor-1260	8.07	16.1	8.07	ug/kg	UJ	H	ADR
LL3SS-296M-2016-SO	Aroclor-1260	8.07	16.1	8.07	ug/kg	UJ	H	ADR
LL3SS-296M-2016-SO	2,4,6-Trinitrotoluene	0.496	0.249	0.0994	mg/kg	J-	H	ADR
LL3SS-296M-2016-SO	2,4,6-Trinitrotoluene	0.471	0.249	0.0994	mg/kg	J-	H	ADR
LL3SS-296M-2016-SO	RDX	0.0994	0.249	0.0994	mg/kg	UJ	H	ADR
LL3SS-296M-2016-SO	Aluminum	11400	15.5	7.73	mg/kg	J+	Q	ADR
LL3SS-296M-2016-SO	Manganese	370	0.386	0.193	mg/kg	J-	Q	ADR
LL3SS-296M-2016-SO	Benzo(a)anthracene	82.1	164	82.1	ug/kg	UJ	S	ADR
LL3SS-296M-2016-SO	Benzo(a)pyrene	82.1	164	82.1	ug/kg	UJ	S	ADR
LL3SS-296M-2016-SO	Benzo(b)fluoranthene	82.1	164	82.1	ug/kg	UJ	S	ADR
LL3SS-296M-2016-SO	Dibenzo(a,h)Anthracene	82.1	164	82.1	ug/kg	UJ	S	ADR
LL3SS-297M-2017-SO	Arsenic	10.5	0.295	0.148	mg/kg	J-	Q	ADR
LL3SS-297M-2017-SO	Lead	125	3.94	1.97	mg/kg	J	Q	ADR
LL3SS-297M-2017-SO	2,4,6-Trinitrotoluene	28.8	2.46	0.985	mg/kg	J-	S	ADR
LL3SS-297M-2017-SO	2,4,6-Trinitrotoluene	29.3	2.46	0.985	mg/kg	J-	S	ADR
LL3SS-297M-2017-SO	Aluminum	6120	15.4	7.68	mg/kg	J+	Q	ADR
LL3SS-297M-2017-SO	Manganese	407	0.384	0.192	mg/kg	J-	Q	ADR
LL3SS-297M-2017-SO	Benzo(a)anthracene	91	161	80.4	ug/kg	J	S	ADR
LL3SS-297M-2017-SO	Benzo(a)pyrene	93	161	80.4	ug/kg	J	S	ADR
LL3SS-297M-2017-SO	Benzo(b)fluoranthene	88.5	161	80.4	ug/kg	J	S	ADR
LL3SS-297M-2017-SO	Dibenzo(a,h)Anthracene	85.2	161	80.4	ug/kg	J	S	ADR
LL3SS-297M-2018-SO	Arsenic	11.8	0.296	0.148	mg/kg	J-	Q	ADR
LL3SS-297M-2018-SO	Lead	19.2	0.197	0.0985	mg/kg	J	Q	ADR
LL3SS-297M-2018-SO	Aluminum	8300	14.3	7.13	mg/kg	J+	Q	ADR
LL3SS-297M-2018-SO	Manganese	467	0.356	0.178	mg/kg	J-	Q	ADR
LL3SS-297M-2018-SO	Benzo(a)anthracene	105	165	82.6	ug/kg	J	S	ADR

Sample	Analyte	Result	RL	MDL	Units	Qualifier	Code	Val Level
LL3SS-297M-2018-SO	Benzo(a)anthracene	80.2	160	80.2	ug/kg	UJ	S	ADR
LL3SS-297M-2018-SO	Benzo(a)pyrene	80.2	160	80.2	ug/kg	UJ	S	ADR
LL3SS-297M-2018-SO	Benzo(a)pyrene	105	165	82.6	ug/kg	J	S	ADR
LL3SS-297M-2018-SO	Benzo(b)fluoranthene	80.2	160	80.2	ug/kg	UJ	S	ADR
LL3SS-297M-2018-SO	Benzo(b)fluoranthene	98.5	165	82.6	ug/kg	J	S	ADR
LL3SS-297M-2018-SO	Dibenzo(a,h)Anthracene	80.2	160	80.2	ug/kg	UJ	S	ADR
LL3SS-297M-2018-SO	Dibenzo(a,h)Anthracene	82.6	165	82.6	ug/kg	UJ	S	ADR

APPENDIX C

Primary/Field Duplicate Sample Comparisons

Sample	Analyte	Result	RL	Units	Qualifier	Duplicate	Result	RL	Units	Qualifier	RPD	w/in +/-RL
LL2SS-315M-1286-SO	Antimony	0.973	0.0958	mg/kg		LL2SS-315M-1288-SO	1.2	0.0986	mg/kg		20.9	N/A
LL2SS-315M-1286-SO	Arsenic	5.03	1.5	mg/kg		LL2SS-315M-1288-SO	3.51	1.48	mg/kg		N/A	No
LL2SS-315M-1286-SO	Lead	34.6	0.2	mg/kg	J	LL2SS-315M-1288-SO	38.2	0.198	mg/kg	J	9.9	N/A
LL2SS-315M-1286-SO	Aroclor-1016	8.17	16.3	ug/kg	U	LL2SS-315M-1288-SO	8.05	16.1	ug/kg	U	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1221	8.17	16.3	ug/kg	U	LL2SS-315M-1288-SO	8.05	16.1	ug/kg	U	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1232	8.17	16.3	ug/kg	U	LL2SS-315M-1288-SO	8.05	16.1	ug/kg	U	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1242	8.17	16.3	ug/kg	U	LL2SS-315M-1288-SO	8.05	16.1	ug/kg	U	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1248	8.17	16.3	ug/kg	U	LL2SS-315M-1288-SO	8.05	16.1	ug/kg	U	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1254	480	16.3	ug/kg		LL2SS-315M-1288-SO	546	16.1	ug/kg		12.9	N/A
LL2SS-315M-1286-SO	Aroclor-1260	8.17	16.3	ug/kg	U	LL2SS-315M-1288-SO	8.05	16.1	ug/kg	U	N/A	Yes
LL2SS-315M-1286-SO	2,4,6-Trinitrotoluene	46.4	2.48	mg/kg		LL2SS-315M-1288-SO	52.4	4.93	mg/kg		12.1	N/A
LL2SS-315M-1286-SO	RDX	9.65	2.48	mg/kg		LL2SS-315M-1288-SO	18.2	4.93	mg/kg		N/A	No
LL2SS-315M-1286-SO	Aluminum	3250	15.3	mg/kg		LL2SS-315M-1288-SO	3030	15.3	mg/kg		-7.0	N/A
LL2SS-315M-1286-SO	Barium	32.3	0.383	mg/kg		LL2SS-315M-1288-SO	34.9	0.383	mg/kg		7.7	N/A
LL2SS-315M-1286-SO	Cadmium	0.388	0.0766	mg/kg	J-	LL2SS-315M-1288-SO	0.385	0.0766	mg/kg		-0.8	N/A
LL2SS-315M-1286-SO	Chromium	19.8	0.191	mg/kg		LL2SS-315M-1288-SO	13.9	0.192	mg/kg		-35.0	N/A
LL2SS-315M-1286-SO	Manganese	308	0.383	mg/kg		LL2SS-315M-1288-SO	322	0.383	mg/kg		4.4	N/A
LL2SS-315M-1286-SO	Benzo(a)anthracene	1010	819	ug/kg		LL2SS-315M-1288-SO	821	802	ug/kg		N/A	Yes
LL2SS-315M-1286-SO	Benzo(a)pyrene	1130	819	ug/kg		LL2SS-315M-1288-SO	864	802	ug/kg		N/A	Yes
LL2SS-315M-1286-SO	Benzo(b)fluoranthene	957	819	ug/kg		LL2SS-315M-1288-SO	751	802	ug/kg	J	N/A	Yes
LL2SS-315M-1286-SO	Dibenzo(a,h)Anthracene	410	819	ug/kg	U	LL2SS-315M-1288-SO	401	802	ug/kg	U	N/A	Yes
LL2SS-315M-1286-SO	Hexavalent Chromium	0.0488	0.0977	mg/kg	UJ	LL2SS-315M-1288-SO	0.0479	0.0957	mg/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Antimony	0.288	0.1	mg/kg		LL3SS-294M-2010-SO	0.281	0.0945	mg/kg		N/A	Yes
LL3SS-294M-2008-SO	Arsenic	11.9	0.291	mg/kg		LL3SS-294M-2010-SO	12	0.292	mg/kg		0.8	N/A
LL3SS-294M-2008-SO	Lead	27.7	0.194	mg/kg		LL3SS-294M-2010-SO	16.7	0.195	mg/kg		-49.5	N/A
LL3SS-294M-2008-SO	Aroclor-1016	8.28	16.6	ug/kg	U	LL3SS-294M-2010-SO	8.26	16.5	ug/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1221	8.28	16.6	ug/kg	U	LL3SS-294M-2010-SO	8.26	16.5	ug/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1232	8.28	16.6	ug/kg	U	LL3SS-294M-2010-SO	8.26	16.5	ug/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1242	8.28	16.6	ug/kg	U	LL3SS-294M-2010-SO	8.26	16.5	ug/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1248	8.28	16.6	ug/kg	U	LL3SS-294M-2010-SO	8.26	16.5	ug/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1254	27.9	16.6	ug/kg		LL3SS-294M-2010-SO	17.6	16.5	ug/kg		N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1260	8.28	16.6	ug/kg	U	LL3SS-294M-2010-SO	8.26	16.5	ug/kg	U	N/A	Yes
LL3SS-294M-2008-SO	2,4,6-Trinitrotoluene	0.765	0.248	mg/kg		LL3SS-294M-2010-SO	0.843	0.251	mg/kg	J+	N/A	Yes
LL3SS-294M-2008-SO	RDX	1.44	0.248	mg/kg		LL3SS-294M-2010-SO	0.591	0.251	mg/kg	J+	N/A	No

Sample	Analyte	Result	RL	Units	Qualifier	Duplicate	Result	RL	Units	Qualifier	RPD	w/in +/-RL
LL3SS-294M-2008-SO	Aluminum	7900	15.2	mg/kg		LL3SS-294M-2010-SO	7870	13.6	mg/kg		-0.4	N/A
LL3SS-294M-2008-SO	Barium	64	0.379	mg/kg		LL3SS-294M-2010-SO	63.1	0.341	mg/kg		-1.4	N/A
LL3SS-294M-2008-SO	Cadmium	0.19	0.379	mg/kg	U	LL3SS-294M-2010-SO	0.17	0.341	mg/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Chromium	14.9	0.19	mg/kg		LL3SS-294M-2010-SO	15.1	0.17	mg/kg		1.3	N/A
LL3SS-294M-2008-SO	Manganese	784	0.379	mg/kg		LL3SS-294M-2010-SO	779	0.341	mg/kg		-0.6	N/A
LL3SS-294M-2008-SO	Benzo(a)anthracene	80.2	160	ug/kg	UJ	LL3SS-294M-2010-SO	81.4	163	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Benzo(a)pyrene	80.2	160	ug/kg	UJ	LL3SS-294M-2010-SO	81.4	163	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Benzo(b)fluoranthene	80.2	160	ug/kg	UJ	LL3SS-294M-2010-SO	81.4	163	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Dibenzo(a,h)Anthracene	80.2	160	ug/kg	UJ	LL3SS-294M-2010-SO	81.4	163	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Hexavalent Chromium	0.0491	0.0982	mg/kg	UJ	LL3SS-294M-2010-SO	0.0503	0.101	mg/kg	U	N/A	Yes

Sample1	Analyte	Result	RL	Units	Qualifier	Blind Duplicate	Result	RL	Units	Qualifier	RPD	w/in +/-RL
LL2SS-315M-1286-SO	Antimony	0.973	0.0958	mg/kg		LL2SS-315M-1289-SO	1.17	0.0992	mg/kg		18.4	N/A
LL2SS-315M-1286-SO	Arsenic	5.03	1.5	mg/kg		LL2SS-315M-1289-SO	4.01	1.49	mg/kg		N/A	Yes
LL2SS-315M-1286-SO	Lead	34.6	0.2	mg/kg	J	LL2SS-315M-1289-SO	30.3	0.199	mg/kg	J	13.3	N/A
LL2SS-315M-1286-SO	Aroclor-1016	8.17	16.3	ug/kg	U	LL2SS-315M-1289-SO	8.09	16.2	ug/kg	U	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1221	8.17	16.3	ug/kg	U	LL2SS-315M-1289-SO	8.09	16.2	ug/kg	U	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1232	8.17	16.3	ug/kg	U	LL2SS-315M-1289-SO	8.09	16.2	ug/kg	U	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1242	8.17	16.3	ug/kg	U	LL2SS-315M-1289-SO	8.09	16.2	ug/kg	U	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1248	8.17	16.3	ug/kg	U	LL2SS-315M-1289-SO	8.09	16.2	ug/kg	U	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1254	480	16.3	ug/kg		LL2SS-315M-1289-SO	351	16.2	ug/kg		31.0	N/A
LL2SS-315M-1286-SO	Aroclor-1260	8.17	16.3	ug/kg	U	LL2SS-315M-1289-SO	8.09	16.2	ug/kg	U	N/A	Yes
LL2SS-315M-1286-SO	2,4,6-Trinitrotoluene	46.4	2.48	mg/kg		LL2SS-315M-1289-SO	61.4	2.47	mg/kg	J-	27.8	N/A
LL2SS-315M-1286-SO	RDX	9.65	2.48	mg/kg		LL2SS-315M-1289-SO	7.81	2.47	mg/kg	J-	N/A	Yes
LL2SS-315M-1286-SO	Aluminum	3250	15.3	mg/kg		LL2SS-315M-1289-SO	3010	15.1	mg/kg		7.7	N/A
LL2SS-315M-1286-SO	Barium	32.3	0.383	mg/kg		LL2SS-315M-1289-SO	29.4	0.377	mg/kg		9.4	N/A
LL2SS-315M-1286-SO	Cadmium	0.388	0.0766	mg/kg	J-	LL2SS-315M-1289-SO	0.322	0.0754	mg/kg		N/A	Yes
LL2SS-315M-1286-SO	Chromium	19.8	0.191	mg/kg		LL2SS-315M-1289-SO	9.72	0.188	mg/kg		68.3	N/A
LL2SS-315M-1286-SO	Manganese	308	0.383	mg/kg		LL2SS-315M-1289-SO	322	0.377	mg/kg		4.4	N/A
LL2SS-315M-1286-SO	Benzo(a)anthracene	1010	819	ug/kg		LL2SS-315M-1289-SO	420	163	ug/kg		N/A	Yes
LL2SS-315M-1286-SO	Benzo(a)pyrene	1130	819	ug/kg		LL2SS-315M-1289-SO	452	163	ug/kg		N/A	Yes
LL2SS-315M-1286-SO	Benzo(b)fluoranthene	957	819	ug/kg		LL2SS-315M-1289-SO	358	163	ug/kg		N/A	Yes
LL2SS-315M-1286-SO	Dibenzo(a,h)Anthracene	410	819	ug/kg	U	LL2SS-315M-1289-SO	153	163	ug/kg	J	N/A	Yes
LL2SS-315M-1286-SO	Hexavalent chromium	0.0488	0.0977	mg/kg	UJ	LL2SS-315M-1289-SO	0.0999	0.2	mg/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Antimony	0.288	0.1	mg/kg		LL3SS-294M-2011-SO	0.304	0.1	mg/kg		N/A	Yes
LL3SS-294M-2008-SO	Arsenic	11.9	0.291	mg/kg		LL3SS-294M-2011-SO	10.7	0.297	mg/kg		10.6	N/A
LL3SS-294M-2008-SO	Lead	27.7	0.194	mg/kg		LL3SS-294M-2011-SO	16.3	0.198	mg/kg		51.8	N/A
LL3SS-294M-2008-SO	Aroclor-1016	8.28	16.6	ug/kg	U	LL3SS-294M-2011-SO	8.37	16.7	ug/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1221	8.28	16.6	ug/kg	U	LL3SS-294M-2011-SO	8.37	16.7	ug/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1232	8.28	16.6	ug/kg	U	LL3SS-294M-2011-SO	8.37	16.7	ug/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1242	8.28	16.6	ug/kg	U	LL3SS-294M-2011-SO	8.37	16.7	ug/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1248	8.28	16.6	ug/kg	U	LL3SS-294M-2011-SO	8.37	16.7	ug/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1254	27.9	16.6	ug/kg		LL3SS-294M-2011-SO	76	16.7	ug/kg		N/A	No
LL3SS-294M-2008-SO	Aroclor-1260	8.28	16.6	ug/kg	U	LL3SS-294M-2011-SO	8.37	16.7	ug/kg	U	N/A	Yes
LL3SS-294M-2008-SO	2,4,6-Trinitrotoluene	0.765	0.248	mg/kg		LL3SS-294M-2011-SO	2.35	0.246	mg/kg		N/A	No
LL3SS-294M-2008-SO	RDX	1.44	0.248	mg/kg		LL3SS-294M-2011-SO	2.22	0.246	mg/kg		42.6	N/A
LL3SS-294M-2008-SO	Aluminum	7900	15.2	mg/kg		LL3SS-294M-2011-SO	8190	15.3	mg/kg		3.6	N/A
LL3SS-294M-2008-SO	Barium	64	0.379	mg/kg		LL3SS-294M-2011-SO	64.7	0.382	mg/kg		1.1	N/A

Sample1	Analyte	Result	RL	Units	Qualifier	Blind Duplicate	Result	RL	Units	Qualifier	RPD	w/in +/-RL
LL3SS-294M-2008-SO	Cadmium	0.19	0.379	mg/kg	U	LL3SS-294M-2011-SO	0.191	0.382	mg/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Chromium	14.9	0.19	mg/kg		LL3SS-294M-2011-SO	14.4	0.191	mg/kg		3.4	N/A
LL3SS-294M-2008-SO	Manganese	784	0.379	mg/kg		LL3SS-294M-2011-SO	805	0.382	mg/kg		2.6	N/A
LL3SS-294M-2008-SO	Benzo(a)anthracene	80.2	160	ug/kg	UJ	LL3SS-294M-2011-SO	82.3	165	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Benzo(a)pyrene	80.2	160	ug/kg	UJ	LL3SS-294M-2011-SO	82.3	165	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Benzo(b)fluoranthene	80.2	160	ug/kg	UJ	LL3SS-294M-2011-SO	82.3	165	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Dibenzo(a,h)Anthracene	80.2	160	ug/kg	UJ	LL3SS-294M-2011-SO	82.3	165	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Hexavalent chromium	0.0491	0.0982	mg/kg	UJ	LL3SS-294M-2011-SO	0.0499	0.0997	mg/kg	U	N/A	Yes

APPENDIX D
Validator Checklists

SEMIVOLATILE ORGANIC ANALYSIS CHECKLIST

Project Name: Rarenna 112,3

Laboratory: Microbac

Batch Number(s): 334289, 335051

Sample Delivery Group: 210060255, 210060743

	<u>Yes</u>	<u>No</u>
1. <u>Sample Holding Time:</u>		
(a) Were samples extracted within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(b) Were samples analyzed within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. <u>Instrument Tuning:</u>		
Was the DFTPP tune performed at the beginning of each 12-hour period during which samples were analyzed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. <u>Ion Mass Assignments:</u>		
Was mass assignment based on m/z 198?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. <u>Ion Abundance:</u>		
Indicate if DFTPP ions abundance relative to m/z 198 base peak met the ions abundance criteria:		
<u>m/z</u> <u>Acceptance Criteria</u>		
51 30.0 - 60.0 %	<input checked="" type="checkbox"/>	<input type="checkbox"/>
68 < 2% of mass 69	<input checked="" type="checkbox"/>	<input type="checkbox"/>
70 < 2% of mass 69	<input checked="" type="checkbox"/>	<input type="checkbox"/>
127 40-60%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
197 < 1%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
198 100%, Base peak	<input checked="" type="checkbox"/>	<input type="checkbox"/>
199 5-9%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
275 10 - 30%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
365 > 1%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
441 present but < mass 443	<input checked="" type="checkbox"/>	<input type="checkbox"/>
442 > 40%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
443 17-23% of mass 442	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	<u>Yes</u>	<u>No</u>																						
5.0 Initial Calibration:																								
<ul style="list-style-type: none"> Did the initial calibration consist of five or more standards? (9) 	5-stds <input checked="" type="checkbox"/> more <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>																						
If the calibration curve consists of 5-standards, check validity of the calibration model.																								
Was the linear model applied?	<input checked="" type="checkbox"/>	<input type="checkbox"/>																						
<ul style="list-style-type: none"> Did the followings System Performance Check Compounds (SPCC) meet the minimum mean response factor (RF)? 																								
<table border="0"> <thead> <tr> <th></th> <th style="text-align: center;"><u>RF</u></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>N-nitroso-di-n-propylamine</td> <td style="text-align: center;">0.05</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Hexachlorocyclopentadiene</td> <td style="text-align: center;">0.05</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>2,4-dinitrophenol</td> <td style="text-align: center;">0.05</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>4-nitrophenol</td> <td style="text-align: center;">0.05</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>		<u>RF</u>			N-nitroso-di-n-propylamine	0.05	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hexachlorocyclopentadiene	0.05	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2,4-dinitrophenol	0.05	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4-nitrophenol	0.05	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
	<u>RF</u>																							
N-nitroso-di-n-propylamine	0.05	<input checked="" type="checkbox"/>	<input type="checkbox"/>																					
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2,4-dinitrophenol	0.05	<input checked="" type="checkbox"/>	<input type="checkbox"/>																					
4-nitrophenol	0.05	<input checked="" type="checkbox"/>	<input type="checkbox"/>																					
<ul style="list-style-type: none"> Did the RSD meet the criteria $\leq 30\%$ for the followings each individual Calibration Check Compound (CCC)? 																								
<u>Base/Neutral Fraction:</u>																								
<table border="0"> <tbody> <tr> <td>Acenaphthene</td> <td rowspan="7" style="text-align: center; vertical-align: middle;"> HTCS ↓ </td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>1,4-Dichlorobenzene</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Hexachlorobutadiene</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Diphenylamine</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Di-n-octylphthalate</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fluoranthene</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Benzo(a)pyrene</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>	Acenaphthene	HTCS ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,4-Dichlorobenzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hexachlorobutadiene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Diphenylamine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Di-n-octylphthalate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fluoranthene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Benzo(a)pyrene	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Acenaphthene	HTCS ↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>																				
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<u>Acid Fraction:</u>																								
<table border="0"> <tbody> <tr> <td>4-Chloro-3-methylphenol</td> <td rowspan="6" style="text-align: center; vertical-align: middle;"> HTCS ↓ </td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>2,4-Dichlorophenol</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>2-Nitrophenol</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Phenol</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Pentachlorophenol</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>2,4,6-Trichlorophenol</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>	4-Chloro-3-methylphenol	HTCS ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2,4-Dichlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2-Nitrophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Phenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pentachlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2,4,6-Trichlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
4-Chloro-3-methylphenol	HTCS ↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>																				
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2,4,6-Trichlorophenol		<input checked="" type="checkbox"/>	<input type="checkbox"/>																					
<ul style="list-style-type: none"> Are the RSDs for the remaining target analytes $\leq 15\%$? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>																						
<ul style="list-style-type: none"> If the answer is "No", are the mean RSDs $\leq 15\%$ or $r \geq 0.99$ with a mean RSD $\leq 15\%$ with a maximum RSD $\leq 30\%$? 	N/A ↓ <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>																						

	<u>Yes</u>	<u>No</u>
<ul style="list-style-type: none">Was manual integration "M" performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If the answer is "Yes", check for supporting documents.		
<ul style="list-style-type: none">Was the manual integration necessary?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If the answer is "No", contact the laboratory inquiring about the reasons behind the manual integration, and inform the District Chemist immediately if there were no valid reasons.		
6. QCMDL:		
<ul style="list-style-type: none">Was MDL Check performed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. QCMRL:		
<ul style="list-style-type: none">Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none">Was the QC/MRL between 70-130% R	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none">For the non-contaminants of concern was the QC/MRL between 50-150% (Sporadic Marginal Failure)?	<input type="checkbox"/>	<input type="checkbox"/>
N/A		
8. <u>Initial Calibration Verification (ICV):</u>		
<ul style="list-style-type: none">Is the mid level (2nd source) recovery within 70-130% for contaminants of concern ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none">Is the mid level (2nd source) recovery within 50-150% for non-contaminants of concern (Sporadic Marginal Failure)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. <u>Continuing Calibration Verification (CCV):</u>		
<ul style="list-style-type: none">Was CCV conducted every 12 hours?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none">Did any of SPCC meet the minimum RF values?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

			<u>Yes</u>	<u>No</u>
N-nitroso-di-n-propylamine	0.05	(NTCS) ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hexachlorocyclopentadiene	0.05		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2,4-dinitrophenol	0.05		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4-nitrophenol	0.05		<input checked="" type="checkbox"/>	<input type="checkbox"/>

- Did the CCC meet the minimum requirements ($D \leq 20\%$) for the followings?

Base/Neutral Fraction:

Acenaphthene	NTCS ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1,4-Dichlorobenzene		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hexachlorobutadiene		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Diphenylamine		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Di-n-octylphthalate		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fluoranthene		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Benzo(a)pyrene		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Acid Fraction:

4-Chloro-3-methylphenol	NTCS ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2,4-Dichlorophenol		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2-Nitrophenol		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Phenol		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pentachlorophenol		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2,4,6-Trichlorophenol		<input checked="" type="checkbox"/>	<input type="checkbox"/>

- Primary Evaluation: Was Drift or $D \leq 20\%$ calculated from the initial calibration?
- Alternative Evaluation: Maximum allowable Drift/D for each target analyte is $\leq 30\%$.

10. Sample Analysis:

- Was the RRT of an identified component within ± 0.06 RRT units of the RRT of the standard component?
- Did the abundance of ions in the sample spectra agree within 30% of the major ions ($> 10\%$ of the base ion) in the standard spectra?
- Were the internal standard areas within the QC limits (from -50% to +200%)?

11. Sample Quality Control:

- | | <u>Yes</u> | <u>No</u> |
|--|-------------------------------------|-------------------------------------|
| • <u>Method Blanks</u> : Were target analytes \leq 1/2 MRL? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • <u>LCS</u> : Were the percent recoveries for LCS within the limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • <u>MS/MSD</u> : Were the percent recoveries within limits? | N/A <input type="checkbox"/> | <input type="checkbox"/> |
| Were the RPD within control limits? | <input type="checkbox"/> | <input type="checkbox"/> |
| • <u>System Monitoring Compounds (Surrogates)</u> : are surrogate recoveries within QC limits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| All low in one sample / all TCS J/WJ | | |

12. Comments (attach additional sheets if necessary):

Validated/Reviewed by:

Signature: Lynn S. Calvin

Date: 11.20.2010

Name: Lynn S. Calvin

POLY CHLORINATED BIPHENYLS (PCB/AROCLORS) CHECKLIST

Project Name: Rauenna Lt 2,3

Laboratory: Microbac

Batch Number(s): 334289, 3351050

Sample Delivery Group: 40040255, 40040743

	<u>Yes</u>	<u>No</u>
1. Holding Time:		
(a) Were samples extracted within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(b) Were samples analyzed within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Initial Calibration:		
• Did the initial calibration consist of five standards? (4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Did Aroclors 1016 and 1260 meet the $RSD \leq 20\%$ or the $r \geq 0.99$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was manual integration "M" performed? If the answer is "Yes", check for supporting documents.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was the manual integration necessary?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If the answer is "no", contact the laboratory inquiring about the reasons behind the manual integration, and inform the District Chemist immediately if there were no valid reasons.		
3. QCMDL:		
• Was MDL Check performed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. QCMRL:		
• Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours??	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was the QC/MRL between 70-130% R	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Initial Calibration Verification (ICV):		
Is the mid level (2 nd source) recovery within 85 - 115%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	<u>Yes</u>	<u>No</u>
6. Continuing Calibration Verification (CCV):		
• Was CCV conducted every 12 hours?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was Drift or $D \leq 15\%$ from the initial calibration with a maximum $\%D < 20\%$ for a specific compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Sample Analysis:		
• Was the RRT of an identified component within the retention time window created as SW-846 requires?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Were samples with levels higher than the calibration range (E), diluted and re-analyzed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Were identified Aroclors confirmed on a second GC column?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Were individual Aroclor standards used to determine the pattern of the peaks? (Individual Aroclors are 1221, 1232, 1242, 1248, and 1254. Both Aroclor 1016, and 1260 can be used from the mixed calibration standards.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was RPD of target analyte conformation $\leq 40\%$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Sample Quality Control:		
• <u>Method Blanks</u> : Were target analytes $\leq 1/2$ MRL?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• <u>LCS</u> : Were the percent recoveries for LCS within the limits? <i>One recovery marginally low on one column for LCS only - no qual's</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• <u>MS/MSD</u> : Were the percent recoveries within limits?	<input type="checkbox"/>	<input type="checkbox"/>
Were the RPDs within control limits?	<input type="checkbox"/>	<input type="checkbox"/>
• <u>System Monitoring Compounds (Surrogates)</u> : are surrogate recoveries within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

NITROAROMATICS & NITRAMINE DATA ANALYSIS (EXPLOSIVE RESIDUES) CHECKLIST

Project Name: L1006025 Ravenna LL2+3, June 2010

Laboratory: ET Microbac IV: 293M-2005, 294M-2008
-01 -05

Batch Number(s): _____

Sample Delivery Group: L10060255

- | | <u>Yes</u> | <u>No</u> |
|---|-------------------------------------|-------------------------------------|
| 1. Holding Time:
Were samples analyzed within holding time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Initial Calibration: | | |
| • Did the initial calibration consist of ⁶ five standards? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Did the RSD meet the criteria $\leq 20\%$ for each individual Calibration Compound or $r \geq 0.99$? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Was manual integration "M" performed?
If the answer is "Yes", check for supporting documents. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| • Was the manual integration necessary? | <input type="checkbox"/> | <input type="checkbox"/> |
| If the answer is "no", contact the laboratory inquiring about the reasons behind the manual integration, and inform the District Chemist immediately if there were no valid reasons. | | |
| 3. QCMDL: | | |
| • Was MDL Check performed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. QCMRL: | | |
| • Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours?? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Was the percentage "D" for QC/MRL $\leq 30\%$? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Initial Calibration Verification (ICV): | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

	<u>Yes</u>	<u>No</u>
<ul style="list-style-type: none"> • Was the ICV made of a 2nd source? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Was the mid level (2nd source) recovery within 85 - 115%? 		
6. Continuing Calibration Verification (CCV): {Daily calibration}		
<ul style="list-style-type: none"> • Was midpoint calibration standard conducted at the beginning of the day? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Was midpoint calibration standard conducted every ten samples or every twelve hours? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Was midpoint calibration standard conducted after the last sample of the day? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Did the CCV meet the minimum requirements ($D \leq 15\%$ with a maximum $D \leq 20\%$ for a specific compound if the mean $D \leq 15\%$)? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Sample Analysis:		
<ul style="list-style-type: none"> • Was the RRT of an identified component within the retention time window created as SW-846 requires? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Were all identified hits, above the initial calibration curve, diluted and reanalyzed? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Were all identified hits confirmed on a second column? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Was RPD of target analyte confirmation ≤ 40? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Was there a shoulder on the 2,4,6-TNT peak? 	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>If the answer is "Yes", then tetryl decomposition is suspected. Peak height rather than peak area should be used for calculating TNT concentration. If teryl was identified in aqueous samples, was pH adjusted to <3?</p> <p>If the answer is "No", then check for tetryl decomposition, and qualify hits with "J" accordingly.</p>	<input type="checkbox"/>	<input type="checkbox"/>
8. Sample Quality Control:		
<ul style="list-style-type: none"> • <u>Method Blanks</u>: Were target analytes $\leq 1/2$ MRL? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • <u>LCS</u>: Were the percent recoveries for LCS within the limits? + RPDs 	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Yes</u>	<u>No</u>
<input type="checkbox"/>	<input type="checkbox"/>

- MS/MSD: Were the percent recoveries within limits?

None

Were the RPDs within control limits?

- System Monitoring Compounds (Surrogates): Were surrogate recoveries within QC limits?

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

9. Comments (attach additional sheets if necessary):

293M @ 2x due to extract color

Validated/Reviewed by:

Signature: *Patti MA*

Date: *11/9/10*

Name: *Patti Meeks*

NITROAROMATICS & NITRAMINE DATA ANALYSIS (EXPLOSIVE RESIDUES) CHECKLIST

Project Name: Ravenna LL2+3 June 2010

Laboratory: Microbac

IV: 315M-1286
-01

Batch Number(s): _____

Sample Delivery Group: L10060743

- | | <u>Yes</u> | <u>No</u> |
|---|-------------------------------------|-------------------------------------|
| 1. Holding Time:
Were samples analyzed within holding time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Initial Calibration: | | |
| • Did the initial calibration consist of ⁶ five standards? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Did the RSD meet the criteria $\leq 20\%$ for each individual Calibration Compound or $r \geq 0.99$? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Was manual integration "M" performed?
If the answer is "Yes", check for supporting documents. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| • Was the manual integration necessary? | <input type="checkbox"/> | <input type="checkbox"/> |
| If the answer is "no", contact the laboratory inquiring about the reasons behind the manual integration, and inform the District Chemist immediately if there were no valid reasons. | | |
| 3. QCMDL: | | |
| • Was MDL Check performed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. QCMRL: | | |
| • Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours?? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Was the percentage "D" for QC/MRL $\leq 30\%$? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Initial Calibration Verification (ICV): | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

	<u>Yes</u>	<u>No</u>
<ul style="list-style-type: none"> • Was the ICV made of a 2nd source? 	<input checked="" type="checkbox"/>	[]
<ul style="list-style-type: none"> • Was the mid level (2nd source) recovery within 85 - 115%? 		
6. Continuing Calibration Verification (CCV): {Daily calibration}		
<ul style="list-style-type: none"> • Was midpoint calibration standard conducted at the beginning of the day? 	<input checked="" type="checkbox"/>	[]
<ul style="list-style-type: none"> • Was midpoint calibration standard conducted every ten samples or every twelve hours? 	<input checked="" type="checkbox"/>	[]
<ul style="list-style-type: none"> • Was midpoint calibration standard conducted after the last sample of the day? 	<input checked="" type="checkbox"/>	[]
<ul style="list-style-type: none"> • Did the CCV meet the minimum requirements ($D \leq 15\%$ with a maximum $D \leq 20\%$ for a specific compound if the mean $D \leq 15\%$)? 	<input checked="" type="checkbox"/>	[]
7. Sample Analysis:		
<ul style="list-style-type: none"> • Was the RRT of an identified component within the retention time window created as SW-846 requires? 	<input checked="" type="checkbox"/>	[]
<ul style="list-style-type: none"> • Were all identified hits, above the initial calibration curve, diluted and reanalyzed? 	<input checked="" type="checkbox"/>	[]
<ul style="list-style-type: none"> • Were all identified hits confirmed on a second column? 	<input checked="" type="checkbox"/>	[]
<ul style="list-style-type: none"> • Was RPD of target analyte confirmation ≤ 40? 	<input checked="" type="checkbox"/>	[]
<ul style="list-style-type: none"> • Was there a shoulder on the 2,4,6-TNT peak? 	[]	<input checked="" type="checkbox"/>
<p>If the answer is "Yes", then tetryl decomposition is suspected. Peak height rather than peak area should be used for calculating TNT concentration. If teryl was identified in aqueous samples, was pH adjusted to <3?</p> <p>If the answer is "No", then check for tetryl decomposition, and qualify hits with "J" accordingly.</p>	[]	[]
8. Sample Quality Control:		
<ul style="list-style-type: none"> • <u>Method Blanks</u>: Were target analytes $\leq 1/2$ MRL? 	<input checked="" type="checkbox"/>	[]
<ul style="list-style-type: none"> • <u>LCS</u>: Were the percent recoveries for LCS within the limits? 	<input checked="" type="checkbox"/>	[]

- | | <u>Yes</u> | <u>No</u> |
|---|------------|-----------|
| • <u>MS/MSD</u> : Were the percent recoveries within limits? | [] | [] |
| Were the RPDs within control limits? | | |
| • <u>System Monitoring Compounds (Surrogates)</u> : Were surrogate recoveries within QC limits? | [] | [] |

none
↓

9. Comments (attach additional sheets if necessary):

10x for extract appearance

Validated/Reviewed by:

Signature: Patti Meeks

Date: 11/10/10

Name: Patti Meeks

10 8.19
17.53
C 12.12
33.36

ICP METALS ANALYSIS (6010) CHECKLIST

Project Name: Ravenna LL2+3, June 2010

Laboratory: CT

Batch Number(s): _____

Sample Delivery Group: L10060255

IV: 293M-2005, 294M-2008
-01 -05

- | | <u>Yes</u> | <u>No</u> |
|--|-------------------------------------|-------------------------------------|
| 1. Holding Time: | | |
| • Were samples analyzed within holding time (6-Months)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Initial Calibration: | | |
| • Did the initial calibration consist of | | |
| One calibration standard and a blank? | <input type="checkbox"/> | <input type="checkbox"/> |
| three calibration standards and a blank? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Was $R \geq 0.995$ | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. QCMDL: | | |
| • Was MDL Check performed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| QCMRL: | | |
| • Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours?? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| • Was the QC/MRL between 70-130% R?
Common Elements can be between the MRL and 2X MRL level (Fe, Al, Mg and Ca) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Initial Calibration Verification (ICV): | | |
| • Is the mid level (2 nd source) recovery within 90 - 110%? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Initial Calibration Blank (ICP): | | |

	<u>Yes</u>	<u>No</u>
• Were analytes in the blank $\leq 1/2$ MRL?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Interelement Check Standard:		
• Was ICS-A (interferents only) conducted at the beginning of analytical sequence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was ICS-AB results within QC limits (80-120)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Continuing calibration Blank (CCB):		
• Was CCB conducted every 10 samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was CCB conducted at end of the analytical sequence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Were analytes $\leq 1/2$ MRL?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Continuing Calibration Verification (CCV):		
• Was CCV conducted every 10 samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was CCV conducted at end of the analytical sequence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was the %R between 90-110?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Sample Analysis:		
• Were samples with levels higher than the calibration range (E), diluted and re-analyzed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Sample Quality Control:		
• <u>Method Blanks</u> : Were target analytes $\leq 1/2$ MRL?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• <u>LCS</u> : Were the percent recoveries for LCS within the limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• <u>MS</u> : Were the percent recoveries within limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6010 + 6020 not on sample in SDG on LC355-295M-2014 SD	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• <u>MD</u> : Were the RPDs within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Serial Dilution:		
• Was serial dilution (1:4) conducted when needed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6010 not on sample in SDG on LC355-295M-2013-50 Alt AST		
6020 + on 293M AST		

- Was there an agreement between diluted and undiluted results (<10%)? Yes
[] ~~No~~
[x]
- 12. Method of Standard Addition (MSA):
 - Was MSA performed on samples suspected of matrix effect ($R \geq 0.995$)? [] []

13. Comments (attach additional sheets if necessary):

294M-2008 Cd reported from SX due to interference

Validated/Reviewed by:

Signature: Patti Mads

Date: 11/9/10

Name: Patti Mads

ICV/CCV & RSDs - OK

ICP METALS ANALYSIS (6010) CHECKLIST

Project Name: Ravenna LL2+3 June 2010

Laboratory: Microbac

Batch Number(s): _____

Sample Delivery Group: L10060743

10 315M-1286
-01

- | | <u>Yes</u> | <u>No</u> |
|--|-------------------------------------|-------------------------------------|
| 1. Holding Time: | | |
| • Were samples analyzed within holding time (6-Months)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Initial Calibration: | | |
| • Did the initial calibration consist of | | |
| One calibration standard and a blank? | <input type="checkbox"/> | <input type="checkbox"/> |
| three calibration standards and a blank? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Was $R \geq 0.995$ | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. QCMDL: | | |
| • Was MDL Check performed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| QCMRL: | | |
| • Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours?? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Was the QC/MRL between 70-130% R?
Common Elements can be between the MRL and 2X MRL level (Fe, Al, Mg and Ca) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Initial Calibration Verification (ICV): | | |
| • Is the mid level (2 nd source) recovery within 90 - 110%? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Initial Calibration Blank (ICP): | | |

	<u>Yes</u>	<u>No</u>
• Were analytes in the blank $\leq 1/2$ MRL?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Interelement Check Standard:		
• Was ICS-A (interferents only) conducted at the beginning of analytical sequence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was ICS-AB results within QC limits (80-120)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Continuing calibration Blank (CCB):		
• Was CCB conducted every 10 samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was CCB conducted at end of the analytical sequence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Were analytes $\leq 1/2$ MRL?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Continuing Calibration Verification (CCV):		
• Was CCV conducted every 10 samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was CCV conducted at end of the analytical sequence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was the %R between 90-110?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Sample Analysis:		
• Were samples with levels higher than the calibration range (E), diluted and re-analyzed? N/A	<input type="checkbox"/>	<input type="checkbox"/>
10. Sample Quality Control:		
• <u>Method Blanks</u> : Were target analytes $\leq 1/2$ MRL?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• <u>LCS</u> : Were the percent recoveries for LCS within the limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• <u>MS</u> : Were the percent recoveries within limits? on validated for As + Pb	<input type="checkbox"/>	<input checked="" type="checkbox"/>
• <u>MD</u> : Were the RPDs within control limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Serial Dilution:		
• Was serial dilution (1:4) conducted when needed?	<input type="checkbox"/>	<input type="checkbox"/>

Hexavalent Chromium

~~CYANIDE~~ ANALYSIS CHECKLIST

Project Name: Ravenna LL2+3, June 2010

Laboratory: Microbac

Batch Number(s): _____

Sample Delivery Group: L10060255

	<u>Yes</u>	<u>No</u>
1. Holding Time:		
• Were samples analyzed within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Initial Calibration:		
• Did the initial calibration consist of		
One calibration standard and a blank?	<input type="checkbox"/>	<input type="checkbox"/>
Six calibration standards and a blank?	<input type="checkbox"/>	<input type="checkbox"/>
• Was $R \geq 0.995$	<input type="checkbox"/>	<input type="checkbox"/>
3. QCMDL:		
• Was MDL Check performed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. QCMRL:		
• Were QC/MRL run at the beginning of every daily sequence??	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was the QC/MRL between 70-130% R?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Initial Calibration Verification (ICV):		
• Is the mid level (2 nd source) recovery within 80-120%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Initial calibration Blank (ICP):		
• Were analytes in the blank $\leq 1/2$ MRL?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- | | <u>Yes</u> | <u>No</u> |
|---|-------------------------------------|-------------------------------------|
| 7. Continuing calibration Blank (CCB): | [] | [] |
| • Was CCB conducted every 15 samples? <i>No CCBs only MB</i> | [] | [] |
| • Was CCB conducted at end of the analytical sequence? | [] | [] |
| • Were analytes $\leq 1/2$ MRL? | [] | [] |
| 8. Continuing Calibration Verification (CCV): | | |
| • Was CCV conducted every 10 samples? <i>No CCBs 2 LCS open bracketing + MDL</i> | [] | <input checked="" type="checkbox"/> |
| • Was CCV conducted at end of the analytical sequence? | [] | [] |
| • Was the %R between 80-120? | [] | [] |
| 9. Sample Analysis: | | |
| • Were samples with levels higher than the calibration range (E), diluted and re-analyzed? <i>N/A</i> | [] | [] |
| 12. Sample Quality Control: | | |
| • <u>Method Blanks</u> : Were target analytes $\leq 1/2$ MRL? | <input checked="" type="checkbox"/> | [] |
| • <u>LCS</u> : Were the percent recoveries for LCS within the limits? | <input checked="" type="checkbox"/> | [] |
| • <u>MS</u> : Were the percent recoveries within limits? <i>None</i> | [] | [] |
| • <u>MD</u> : Were the RPDs within control limits? <i>↓</i> | [] | [] |

13. Comments (attach additional sheets if necessary):

No MS/MSD qual 05/02

Pat Meeks
Pat Meeks

11/10/10 201

Hexavalent Chromium

~~CYANIDE~~ ANALYSIS CHECKLIST

Project Name: Ravenna LL2+3, June 2010

Laboratory: Microbac

Batch Number(s): _____

Sample Delivery Group: L10060743

	<u>Yes</u>	<u>No</u>
1. Holding Time:		
• Were samples analyzed within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Initial Calibration:		
• Did the initial calibration consist of		
One calibration standard and a blank?	<input type="checkbox"/>	<input type="checkbox"/>
Six calibration standards and a blank?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was $R \geq 0.995$	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. QCMDL:		
• Was MDL Check performed?	<input type="checkbox"/>	<input type="checkbox"/>
4. QCMRL:		
• Were QC/MRL run at the beginning of every daily sequence??	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was the QC/MRL between 70-130% R?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Initial Calibration Verification (ICV):		
• Is the mid level (2 nd source) recovery within 80-120%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Initial calibration Blank (ICP):		
• Were analytes in the blank $\leq 1/2$ MRL?	<input type="checkbox"/>	<input type="checkbox"/>



**U.S. Army Corps of Engineers
Louisville District**

**Ravenna Army Ammunition Plant
Load Lines 2 & 3 June 2010 Sampling
Ravenna, Ohio**

**Final Chemical Quality Assurance Report
Sample Delivery Groups:
79478, 79727**

September 2011

**Prepared for:
U.S. Army Corps of Engineers
Louisville District
Contract No. W912QR-08-D-0001
Delivery Order 0022**

**Prepared by:
MEC^x, LP
12269 East Vassar Drive
Aurora, Colorado 80014**



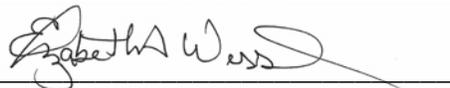
CONTRACTOR STATEMENT OF INDEPENDENT TECHNICAL REVIEW

MEC^x, LP (MEC^x) has completed the Chemical Quality Assurance Report for Sample Delivery Group 0912084 from the Ravenna Army Ammunition Plant Load Lines 2 & 3 June 2010 Sampling. Notice is hereby given that an independent technical review has been conducted to determine the usability and bias of the analytical data.

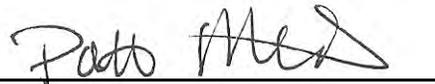
Significant concerns and the resolution are as follows:

None.

As noted above, all concerns resulting from this independent technical review have been considered.



Elizabeth Wessling
Senior Environmental Chemist
MEC^x Independent Technical Review Team Leader



Patti Meeks, Ph.D.
Senior Environmental Chemist
MEC^x Independent Technical Review Team Member

Executive Summary

The overall objective of the project described in this document was to determine if contaminants are present in the soils below the floor slabs of Load Lines 2 and 3. A total of twenty primary, two field duplicate, two blind field duplicate, and two quality assurance (QA) multi-incremental soil samples and three equipment rinsate samples were collected by URS Corporation in June 2010.

The following analyses were performed for all primary samples by Microbac Laboratories, Inc. (Microbac) located in Marietta, Ohio:

- United States Environmental Protection Agency (USEPA) SW-846 Method 6010B and 6020 for eight metals
- USEPA SW-846 Method 8270C for four semivolatile compounds (SVOCs)
- USEPA SW-846 Method 8082 for polychlorinated biphenyls (PCBs)
- USEPA SW-846 Method 8330B for two explosive compounds
- USEPA SW-846 Method 7196A for hexavalent chromium

The following analyses were performed for all (QA) samples by CT Laboratories (CT) in Baraboo, Wisconsin:

- USEPA SW-846 Method 6010B and 6020 for eight metals
- USEPA SW-846 7471A for mercury
- USEPA SW-846 Method 8270C for four semivolatile compounds (SVOCs)
- USEPA SW-846 Method 8082 for polychlorinated biphenyls (PCBs)
- USEPA SW-846 Method 8330B for two explosive compounds
- USEPA SW-846 Method 7196A for hexavalent chromium

No data were rejected. All data were usable for its intended purpose with the qualification applied by MEC^x.

Specific concerns regarding the QA data are noted below:

- The reporting limits for the following compounds exceeded the criteria listed in Tables 3-3 through 3-9 of the FWQAPP. Unless otherwise noted, the MDLs met the project criteria:
 - All nondetected PCB results
 - Dibenzo(a,h)anthracene in LL3SS-294M-2009-QA
 - All hexavalent chromium reporting limits and MDLs

Specific concerns regarding the primary data are noted below:

- For the PCB samples validated at Level IV, the confirmation column chromatograms exhibited significantly more matrix interference with unresolved baseline areas than the original chromatograms. In instances where more than one result exists for samples that were reviewed by ADR or validated at Level III, the final data user should review the PCB chromatograms; prior to selecting the final valid results.
- Although required by the method, 7196A, no matrix spike analyses or sample replicate analysis was performed for hexavalent chromium.
- The reporting limits for the following nondetected analytes exceeded the project criteria. Unless otherwise noted below, the MDLs also exceeded the project criteria:
 - Due to dilutions for matrix interference, cadmium in six samples
 - Due to dilutions to report one or more analytes within the linear range of the calibration, all nondetected Aroclor results in four samples
 - All SVOC results in 18 samples
 - RDX in four samples; however, the MDL exceeded the project criteria in only three of these samples
 - 2,4,6-Trinitrotoluene in three samples; however, the MDLs only marginally exceeded the project criteria in these three samples

Acronyms and Abbreviations

ADR	Automated Data Review
°C	Degrees Celsius
CCB	Continuing Calibration Blank
CCC	Calibration Check Compounds
CCV	Continuing Calibration Verification
CT	CT Laboratories
%D	Percent Difference
DoD	Department of Defense
EDD	Electronic Data Deliverable
FWQAPP	Facility-Wide Quality Assurance Project Plan
GC/MS	Gas Chromatography/Mass Spectrometry
ICSA	Interference Check Sample A
ICSAB	Interference Check Sample AB
ICV	Initial Calibration Verification
ICP	Inductively Coupled Plasma
LCG	Louisville Chemistry Guidance
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MEC ^x	MEC ^x , LP
Microbac	Microbac Laboratories, Inc.
MRL	Method Reporting Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MDL	Method Detection Limit
PCB	Polychlorinated Biphenyl
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
QSM	Quality Systems Manual
RL	Reporting Limit
RPD	Relative Percent Difference
RRF	Relative Response Factor
RSD	Relative Standard Deviation
RVAAP	Ravenna Army Ammunition Plant
SAIC	Science Applications International Corporation
SDG	Sample Delivery Group
SPCC	System Performance Check Compound
SVOC	Semivolatile Organic Compounds
USACE	United State Army Corps of Engineers
USEPA	United State Environmental Protection Agency

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1. INTRODUCTION

1.1. PROJECT OVERVIEW

The overall objective of the project described in this document was to determine if contaminants are present in the soils below the floor slabs of Load Lines 2 and 3. A total of twenty primary, two field duplicate, two blind field duplicate, and two quality assurance (QA) multi-incremental soil samples and three equipment rinsate samples were collected by URS Corporation in June 2010.

Sampling was conducted by URS Corporation (URS) in June 2010. Twenty primary, two field duplicate, two blind field duplicate soil samples, and three equipment rinsate samples were collected and analyzed by the primary laboratory, Microbac Laboratories, Inc. (Microbac) located in Marietta, Ohio. Two soil QA samples were collected and analyzed by the QA laboratory, CT Laboratories (CT) in Baraboo, Wisconsin. The following analyses were performed:

Table 1. Laboratory preparation and analysis methods

Parameter	Microbac		CT	
	Method	Preparation Method	Method	Preparation Method
Explosives	8330B	8330B	8330B	8330B
Hexavalent Chromium	7196A	none	7196A	3060A
Metals	6010B, 6020	3051	6010C	3050
Mercury	N/A	N/A	7471A	7471A
PCBs	8082	3550B	8082	3545
Semivolatiles	8270C	3545	8270C	3546

Preparation or analytical methods differed slightly between the laboratories for all methods except explosives. CT reported all metals by 6010C while Microbac reported antimony, arsenic, and lead by 6020. Generally, method 6020 is more sensitive as a mass spectrometer provides definitive identification. The data were not adversely affected by these differences.

This report describes findings of data validation performed by MEC^x, LP (MEC^x) on the site samples reported in two sample delivery groups (SDG) from CT and discusses the comparability of the primary and QA samples..

1.2. PREVIOUS ACTIVITIES AND DATA

The following summary was adapted from the Facility-Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant (RVAAP), Ravenna, Ohio (FWQAPP) prepared by Science Applications International Corporation (SAIC).

Located in northeastern Ohio on approximately 21,000 acres, RVAAP was established in 1940 to load, store, and demilitarize conventional artillery ammunition, bombs, mines, fuses and boosters, primers and percussion elements. Originally RVAAP operated as two separate units,

the Portage Ordnance Depot and the Ravenna Ordnance Plant. During World War II, a contractor operated the Ravenna Ordnance Depot and the government operated the Portage Ordnance Depot. Ordnance production and storage for World War II continued until August 1945, at which time the facility was renamed as the Ravenna Arsenal, and the government assumed control of all operations. From 1951 to 1999, the entire facility was operated by contractors. Ordnance production at the facility was phased out and sent to Plum Brook Ordnance Works in Sandusky, Ohio and Keystone Ordnance Works in Meadville, Pennsylvania. All production at the facility had ceased by 1957 and the plant was placed on standby. In 1961, the plant was operational for seven months, processing and performing explosive melt-out of bombs. After deactivation late in 1961, the facility was renamed RVAAP. From mid-1968 until 1971, the plant was reactivated to load, assemble, and pack munitions on three load lines and two component lines. Operations ceased at Load Lines 1, 2, 3, and 4 in 1971; however, the Lines were reactivated to perform demilitarization operations for several months in 1973 and 1974. In 1992, RVAAP was again placed on "Inactive" status. Salvage and demolition operations started in 1998 and administrative control of the facility was transferred to the Ohio Army National Guard in 1999.

Since 1978, approximately 20 environmental investigations have been performed at RVAAP. Only a portion of these investigations are discussed below.

In 1989, the USEPA contracted Jacobs Engineering to perform a Resource Conservation and Recovery Act Facility Assessment. Thirty-one solid areas of concern were identified during the assessment; 13 of which were recommended for no further action. In 1996, the United States Army Corps of Engineers (USACE) performed a facility-wide preliminary assessment and conducted Phase I remedial investigations at 11 areas of concern. Salvage and demolition operations were performed in 1998. Monitoring wells were installed and a Phase II remedial investigation was performed at Load Line 1 by the USACE in 1999 and 2000, respectively.

Operations at the Load Lines consisted of melting and loading energetic compounds into large caliber shells which also produced explosive dust, spills, and vapors that collected on the floors and walls of the buildings; therefore, the buildings and lines were periodically washed down. Wastewater from this process was collected in concrete sumps, then discharged to a drainage ditch or settling pond. Building demolition began in 2001. The slabs and foundations were left intact on Load Lines 2 - 4 in order to prevent water infiltration to the contaminated soils below. Soils and dry sediments outside the footprints of the buildings that were contaminated by the wash-down processes were removed by Shaw Engineering in 2003. Floor slabs at Load Lines 2 -4 were subsequently removed and the soil samples described in this report were collected from beneath the floor slabs at Load Lines 2 and 3.

2. DESCRIPTION OF WORK PERFORMED

This section describes the data validation procedures used during the evaluation of the site samples and the assessments performed on the resulting data.

2.1. CHEMICAL QUALITY ASSURANCE REPORT TASKS

QA samples were compared to the primary samples using the criteria in the FWQAPP. This data is presented in Section 4.0. The final electronic data deliverables (EDD) were then reviewed to determine the analytical completeness for the project. This data is presented in Section 5.0.

2.2. DATA VALIDATION PROCESS

Two multi-incremental QA samples, presented in the table below, were validated at Level III.

Table 2. Validated QA sample identification table

Client Sample ID	Laboratory ID	Collected	Val Level	Validated Methods
LL2SS-315M-1287-QA	814637	6/22/2010	III	6010C, 7471A, 7196A, 8082, 8270C SIM, 8330B
LL3SS-294M-2009-QA	808672	6/8/2010	III	6010C, 7471A, 7196A, 8082, 8270C SIM, 8330B

Data validators assessed results based on the FWQAPP, Quality Assurance Project Plan Addendum for the Sampling of Soils Below Floor Slabs at LLS-2, 3, 4, and Excavation and Transportation of Contaminated Soils to Load Line 4 (QAPP Addendum), Louisville Chemistry Guideline Version 5 (LCG), Shell for Analytical Chemistry Requirements (Shell), Department of Defense Quality Systems Manual for Environmental Laboratories Version 3 (DoD QSM), the specific EPA methods, the National Functional Guidelines for Organic Data Review (1994), and the National Functional Guidelines for Inorganic Data Review (1994). The specific items reviewed during Level III data validation are documented in Section 2.1 of the Ravenna Army Ammunition Plant Load Lines 1, 2, 3, and 4 and Other Building Locations Soil Sampling Data Validation Report.

2.3. DATA VALIDATION QUALIFIERS

Data qualifiers, as defined below, were applied following the documents noted in Section 2.2:

- U Nondetected at the limit of detection
The analyte was analyzed for but not definitively detected.
- J Estimated
The identification of the analyte is acceptable but the quality assurance criteria indicate that the quantitative values may be outside the normal expected range of precision. Additionally used to identify detects reported below the reporting limit.
- N Identity Presumptive and Tentative

There is presumptive evidence that the analyte is present but it has not been confirmed. There is an indication that the reported analyte is present; however, all quality control requirements necessary for confirmation were not met.

R Rejected

Data are considered to be rejected and shall not be used for environmental decisions.

2.4 FLAGGING CODES

The qualification codes in the following table may have been used to flag the data described in this document: Sample qualifications are summarized in Appendix B. All qualifications and associated qualification codes have been entered into the electronic data deliverables (EDD) received from the laboratories.

Table 3. Qualification code reference table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient was noncompliant.
R	Calibration RRF was noncompliant.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Not applicable	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	ICPMS tuning was noncompliant
T	Presumed contamination as indicated by the trip blank results.	Not applicable.
+	False positive – reported compound was not present.	False positive – reported compound was not present.
-	False negative – compound was present but not reported.	False negative – compound was present but not reported.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
\$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*II, *III	A deficiency was found that has been	A deficiency was found that has been

Qualifier	Organics	Inorganics
	described in the "Sample Management," section (*II) or the "Method Analyses" section (*III).	described in the "Sample Management," section (*II) or the "Method Analyses" section (*III).

3. QA DATA ACQUISITION ACTIVITIES

3.1. SAMPLE COLLECTION

Two multi-incremental soil samples were collected in June 2010. The samples were submitted under chain of custody to the QA laboratory, CT. All results were reported in one SDG.

The chains of custody were appropriately signed by both field and/or laboratory personnel with all samples and analyses accounted for, cooler custody seals intact and within the temperature limits of $4\pm 2^{\circ}\text{C}$. All documentation regarding sample handling as presented in the case narratives, chains of custody, correspondence, and sample condition upon receipt forms, was evaluated.

3.2. SAMPLE ANALYSIS

CT analyzed a total of two samples by USEPA SW-846 Method 6010C for aluminum, antimony, arsenic, barium, cadmium, chromium, lead, and manganese, USEPA SW-846 Method 741A for mercury, USEPA SW-846 Method 8270C for benzo(a)pyrene, Benzo(a)anthracene, benzo(b)fluoranthene, and dibenz(a,h)anthracene, USEPA SW-846 Method 8082 for the standard seven PCBs and Aroclor-1262 and Aroclor-1268, USEPA SW-846 Methods 8330B for RDX and 2,4,6-trinitrotoluene, and USEPA SW-846 Method 7196A for hexavalent chromium.

3.3. DATA COMPLETENESS

Data completeness for the project described in this report was found to be acceptable as no deliverables were missing.

3.4. HOLDING TIME REQUIREMENTS

The soil extraction and analytical holding times for the analyses reviewed in this document are as follows:

Method	Analysis	Extraction Holding Time	Analysis Holding Time
SW-846 Method 6010C	Metals	N/A	180 days
SW-846 Method 7471A	Mercury	N/A	28 days
SW-846 Method 8270C	SVOCs	14 days	40 days
SW-846 Method 8082	PCBs	14 days	40 days
SW-846 Method 8330B	Explosives	14 days	40 days
SW-846 Method 7196A	Hexavalent chromium	30 days	7 days

All extraction and analytical holding times were met.

3.5. DETECTION LIMIT REQUIREMENTS

The following reporting limits for nondetected analytes exceeded the criteria listed in Tables 3-3 through 3.9 of the FWQAPP and Appendix A of the QAPP Addendum. Unless otherwise noted below, the MDLs met the project criteria:

- All nondetected PCB results (analyzed undiluted)
- Dibenzo(a,h)anthracene in LL3SS-294M-2009-QA
- All hexavalent chromium reporting limits and MDLs

4. QA DATA QUALITY EVALUATION

This section summarizes the data quality for each analytical method evaluated.

4.1. EXPLOSIVES

Two samples were analyzed by CT for two explosives by USEPA SW-846 Method 8330B.

- MDL studies were not evaluated as part of this project.
- Calibration: Calibration criteria were met, with one exception listed below.
 - Initial calibration average percent relative standard deviations (%RSDs) were within the control limits listed in the LCG Table 5 of $\leq 20\%$.
 - The second source initial calibration verification standard (ICV) recoveries were within the control limits listed in LCG Table 5 of 85-115%.
 - One continuing calibration verification (CCV) standard, bracketing the confirmation analysis of both samples, had a percent difference (%D) of 15.8% for 2,4,6-trinitrotoluene; therefore, the detects for this analyte were qualified as estimated, "J," in both samples. In the absence of qualifications with conflicting bias, the results were qualified as estimated with a potential negative bias, "J-." The qualified results were coded with a "C" qualification code. The remaining CCV standard %Ds were within the control limits listed in LCG Table 5 of $\leq 15\%$.
 - No MRL standards were analyzed in association with the samples. Except for 2,4,6-trinitrotoluene in LL2SS-315M-1287-QA, all results were qualified as estimated, "J," and coded with a "C" qualification code. The detect for 2,4,6-trinitrotoluene in LL2SS-315M-1287-QA was not qualified as the detect was $>10\times$ the reporting limit and at that concentration it was the reviewer's professional opinion that the CCVs adequately evaluated the instrument performance relative to the sample.
 - MDL checks were not analyzed in associated with the samples in these SDGs.
- Blanks: The method blanks had no target compound detects above the control limits listed in LCG Table 5, of one-half the reporting limit for target compounds, and no common laboratory contaminant detects above the reporting limit.
- Blank Spikes and Laboratory Control Samples: Recoveries were within the control limits listed in FWQAPP Table 3-1 of 40-140%.
- Surrogate Recovery: The surrogate recoveries were within the control limits listed in LCG Table 5 of 50-150%.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on both samples. The MS/MSD recoveries and RPDs were within the control limits listed in FWQAPP Table 3-1 of 40-140% and $\leq 35\%$, respectively. The control limits do not apply when the native concentration is $\geq 4\times$ the spike amount.
- Compound Quantification and Reported Detection Limits: Compound quantification was not verified at a Level III validation. The reporting limits were supported by the low point of the initial calibration. Any result reported between the MDL and the reporting limit was qualified as estimated, "J."

Target compound confirmation was performed by the laboratory for detects in the validated samples. RPDs were within the control limit listed in LCG Table 5 of $\leq 40\%$.

The reviewer noted that the laboratory reported all detects from the primary column, regardless of the LCG requirement to report the higher of the two values. As the confirmation analysis of RDX for LL3SS-294M-2009-QA yielded a slightly higher concentration, the reviewer changed the result to reflect the higher value. This result was coded with a "\$" qualification code.

- System Performance: Review is not applicable at Level III validation.
- Manual integrations: Review is not applicable at Level III validation.
- Compound Identification: Compound identification was not verified at a Level III validation.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: There were no field QC samples associated with the validated samples in these SDGs. There were three equipment rinsates collected and analyzed for explosives by the primary laboratory. There were no detects above the MDL in any of the equipment rinsate samples.

4.2. POLYCHLORINATED BIPHENYLS (PCBs)

Two soil samples were analyzed by CT for PCBs by USEPA SW-846 Method 8082.

- MDL studies were not evaluated as part of this project.
- Calibration: Calibration criteria were met.
 - Initial calibration r^2 values were within the control limit listed in LCG Table 3 of ≥ 0.995 .

- The second source initial calibration verification standard (ICV) was within the control limits listed in LCG Table 3 of 85-115%.
- The continuing calibration verification (CCV) standard %Ds were within the control limits listed in LCG Table 3 of ≤15%.
- MRL standards were not analyzed in association with the validated samples. Although not required by DoD QSM Table B-3, it was the reviewer's professional opinion that analysis of the MRL standards offers additional surety of results reported near the reporting limit; therefore, nondetected results were qualified as estimated, "UJ," and coded with a "C" qualification code. The detected results were >10x the reporting limit and qualifications were not applied as at these concentrations it was the reviewer's professional opinion that the CCVs adequately assessed the instrument's performance relative to the sample.
- No MDL check was performed in association with the samples in these SDGs.
- Blanks: The method blanks had no target compound detects above the control limit listed in LCG Table 3, of one-half the reporting limit.
- Blank Spikes and Laboratory Control Samples: Recoveries were within the control limits listed in FWQAPP Table 3-1 of 40-140%.
- Surrogate Recovery: Recoveries were within the control limits listed in LCG Table 3 of 50-150%.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on both samples of these SDGs. Recoveries were within the control limits listed in FWQAPP Table 3-1 of 40-140% and RPDs were within the control limit of 35%.
- Compound Identification: Compound identification was not verified at a Level III validation.
- Compound Quantification and Reported Detection Limits: Compound quantification was not verified at a Level III validation. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Any result reported between the MDL and the reporting limit was qualified as estimated, "J."

In accordance with the LCG, the laboratory reported the higher of the two values unless there was an indication of interference with the higher concentration result. In that instance the lower result of the two values was reported.

The samples were analyzed on two analytical columns for target compound confirmation; however, the laboratory did not provide summary information for intercolumn %Ds. The reviewer calculated intercolumn %Ds for the sample detects, and both were ≤40%.

- System Performance: System performance is not evaluated at a Level III validation.

- Manual Integrations: Review is not applicable at a Level III validation.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: There were no field QC samples associated with the validated samples in these SDGs. There were three equipment rinsates collected and analyzed for PCBs by the primary laboratory. There were no detects above the MDL in any of the equipment rinsate samples.

4.3. SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

Two soil samples were analyzed by CT for four semivolatile organic compounds by USEPA SW-846 Method 8270C.

- MDL studies were not evaluated as part of this project.
- GC/MS Tuning: The DFTPP tunes met the method abundance criteria. The samples were analyzed within 12 hours of the DFTPP injection time.
- Calibration: Calibration criteria were met.
 - Initial calibration average relative response factors (RRFs) and ICV and CCV RRFs were within method control limits of ≥ 0.050 for system performance check compounds (SPCCs). The initial calibration %RSDs were within the method control limits listed in the LCG Table 2, of $\leq 30\%$ for calibration check compounds (CCCs) and $\leq 15\%$ for remaining compounds.
 - All second source initial calibration verification standard recoveries were within the control limits listed in the LCG Table 2 of 70-130%.
 - The continuing calibration %Ds affecting sample data were within the method control limits of $\leq 20\%$ listed in the LCG Table 2.
 - MRL standards were not analyzed in association with the validated samples. Although not required by DoD QSM Table B-3, it was the reviewer's professional opinion that analysis of the MRL standards offers additional surety of results reported near the reporting limit; therefore, nondetected results were qualified as estimated, "UJ," and detects reported at concentrations less than 10x the reporting limit were qualified as estimated, "J." All results in both samples were qualified, and all qualified results were coded with a "C" qualification code.
 - No MDL check standards were analyzed in association with these samples.

- Blanks: The method blanks had no target compound detects above the control limits listed in the LCG Table 2, of one-half the reporting limit for target compounds, and no common laboratory contaminant detects above the reporting limit.
- Blank Spikes and Laboratory Control Samples: The LCS recoveries were within the control limits listed in the FWQAPP Table 3-1 of 45-135%.
 - Surrogate Recoveries: Surrogate recoveries were within the control limits of 50-150% listed in the LCG Table 2.
 - Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on sample LL2SS-294M-2009-QA. Recoveries and RPDs were within the control limits listed in FWQAPP Table 3-1 of 45-135% and $\leq 35\%$, respectively
- Internal Standards Performance: The internal standard area counts and retention times were within the LCG Table 2 control limits established by the midpoint initial calibration standard: ± 30 seconds for retention times and -50% / $+100\%$ for internal standard areas.
- Compound Identification: Verification of compound identification is not applicable at a Level III validation.
- Compound Quantification and Reported Detection Limits: Verification of compound quantification is not applicable at a Level III validation. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Any result reported between the MDL and the reporting limit was qualified as estimated, "J," by the laboratory.
- System Performance: Review is not applicable at a Level III validation.
- Manual Integrations: Review is not applicable at a Level III validation; however, the reviewer noted that some routine manual integrations were performed for the samples.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: There were no field QC samples associated with the validated samples in these SDGs. There were three equipment rinsates collected and analyzed for SVOCs by the primary laboratory. There were no detects above the MDL in any of the equipment rinsate samples.

4.4. METALS

Two soil samples were analyzed by CT for various metals by USEPA Methods 6010C and 7471A.

- MDL studies were not evaluated.
- Calibration: Except as noted below, calibration criteria were met.
 - Initial calibration: The mercury linear regression r value was within the control limit listed in LCG Table 9 of ≥ 0.995 .
 - The inductively coupled plasma mass spectrometry (ICP) ICV and CCV recoveries were within the control limits listed in LCG Table 7 of 90-110% and Table 9 of 80-120% for mercury.
 - MRL check standard recoveries were within the control limits listed in LCG Table 7 and Table 9 of 70-130%.
 - No MDL check standards were analyzed in association with these samples.
- Method blanks and CCBs had no applicable detects above the control limit listed in the LCG Tables 7 and 9 of one-half the MRL.
- ICP interference check sample A (ICSA) and AB (ICSAB) recoveries were within the control limits listed in QAPP Table 7 of 80-120%.
- Laboratory Control Samples: Recoveries were within the control limits listed in FWQAPP Table 3-1 of 75-125%.
- Laboratory Duplicates: Laboratory duplicate analyses were performed for both samples. The cadmium RPD for LL3SS-294M-2009-QA exceeded the control limit at 50%; therefore, cadmium detected in LL3SS-294M-2009-QA was qualified as estimated, "J," and the result was coded with an "E" qualification code. As per the National Functional Guidelines, only the samples in the same SDG as the laboratory duplicate were qualified for the associated outliers. The remaining RPDs were within the control limit listed in FWQAPP Table 3-1 of $\leq 25\%$.
- Matrix Spike/Matrix Spike Duplicate: Except as noted below, recoveries were within the control limits listed in FWQAPP Table 3-1 of 75-125%. Matrix spike control limits were not applied when the native sample concentration exceeded the spiked amount by a factor of four or more. As per the National Functional Guidelines, only the samples in the same SDG as the MS/MSD were qualified for the associated outliers.

Results noted in the table below were qualified as estimated, "J," and were coded with a "Q" qualification code. When no other qualifications with conflicting bias were assigned to a result, detected results with low recoveries were assigned a negative bias, "J-."

Samples qualified for MS/MSD recovery outliers			
Parent Sample	Analyte	Recovery	Qualified Samples
LL3SS-294M-2009-QA	Antimony	13%, 11%	Antimony in LL3SS-294M-2009-QA
LL2SS-315M-1287-QA	Antimony	24%, 23%	Antimony in LL2SS-315M-1287-QA
	Lead	50%, 62%	Lead in LL2SS-315M-1287-QA

- Serial Dilution: Serial dilution analyses were performed for both samples. Except as noted below, the %Ds were within the control limit listed in LCG Table 7 of $\leq 10\%$. The serial dilution control limit is only applicable when the original sample concentration is minimally $\geq 50\times$ the MDL for ICP analytes. The lead %D for LL3SS-294M-2009-QA exceeded the control limit at 19% and the chromium %D for LL2SS-315M-1287-QA exceeded the control limit at 12%; therefore, lead detected in LL3SS-294M-2009-QA and the chromium detected in LL2SS-315M-1287-QA were qualified as estimated, "J." The qualified results were coded with an "A" qualification code. As per the National Functional Guidelines, only the samples in the same SDG as the parent sample were qualified for the associated outliers. When no other qualifications with conflicting bias were assigned to a result, detected results with low recoveries were assigned a negative bias, "J-."
- Internal Standards: Internal standards are not reviewed at a Level III validation.
- Sample Result Verification: Sample results are not verified at a Level III validation. Any result reported between the MDL and the reporting limit was qualified as estimated, "J."
- Manual Integrations: Manual integrations are not reviewed at a Level III validation.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - There were no field QC samples associated with the validated samples in these SDGs. There were three equipment rinsates collected and analyzed for metals by the primary laboratory. There were detects above the reporting limit for manganese and chromium in LL2SS-284M-1285-ER. There were no other detects above the MDL in the equipment rinsate samples.

4.5. GENERAL CHEMISTRY - HEXAVALENT CHROMIUM

Two samples were analyzed by CT for hexavalent chromium by USEPA SW-846 Method 7196A.

- MDL studies were not reviewed.
- Calibration: Except as noted below, calibration criteria were met.
 - Initial calibration: Initial calibration r values were ≥ 0.995

- The ICV and CCV recoveries were within the control limits listed in DoD QSM Tables B-8 of 90-110%.
- MRL check standards recoveries were within the control limits listed in LCG Table 10 of 70-130%.
- MDL Verification: The laboratory did not analyze MDL check standards.
- Blanks: Method blanks had no applicable detects above the control limit listed in the DoD QSM Tables B-8 of one-half the MRL.
- Blank Spikes and Laboratory Control Samples: The hexavalent chromium recoveries were within the laboratory-established control limits of 80-120%.
- Laboratory Duplicates: Laboratory duplicate analyses for hexavalent chromium were performed on both samples. RPDs were within the control limit listed in FWQAPP Table 3-1 of $\leq 25\%$.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on both samples. The recoveries were within the control limits listed in FWQAPP Table 3-1 of 75-125%.
- Sample Result Verification: Sample results are not reviewed at a Level III validation. Any result reported between the MDL and the reporting limit was qualified as estimated, "J."
- Manual Integrations: Manual integrations are not reviewed at a Level III validation.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: There were no field QC samples associated with the validated samples in these SDGs. There were three equipment rinsates collected and analyzed for hexavalent chromium. There were no detects above the MDL in the equipment rinsate samples.

5. PRIMARY DATA QUALITY EVALUATION SUMMARY

The following table summarizes the qualifications applied to the primary sample data:

Table 4. Primary data qualification summary

Analysis	Number of Samples Analyzed	Number of Analytes per Sample	Percent Rejected	Percent Estimated
Explosives	27	2	0	31%*
PCBs	27	7	0	21%*
SVOCs	27	4	0	67%
Metals	27	8	0	21%
Hexavalent chromium	27	1	0	11%
Totals			0	

*Samples not validated at Level IV have more than one result for each analyte as the laboratory reported both the primary column and confirmation column results. This number is inclusive of all results not rejected as duplicate data.

A complete summary of qualifications applied to the primary samples can be found in Appendix A of the Ravenna Army Ammunition Plant Load Lines 2 & 3, June 2010 Sampling Data Validation Report. The primary dataset was found to be usable for its intended purposes, including comparison to the QA samples, with the qualifications applied by MEC^X.

6. DATA USABILITY SUMMARY

6.1. OVERALL COMPLETENESS REVIEW

As the data validated in this report are not inclusive of the entire field effort, no field completeness value was calculated.

The analytical completeness goal for the project that was established in the FWQAPP was 90% for each method. Data with reporting limits that exceeded the established criteria and data estimated for quality control outliers or for detects between the MDL and the RL were included in Table 5 for informational purposes only. The QA laboratory reported three analytes, mercury, Arochlor-1262, and Arochlor-1268, not reported by the primary laboratory. The number of analytes reported by the QA laboratory is noted parenthetically in the table below. Also, please note that the primary laboratory reported one extra analyte, silver, in one sample.

The following table summarizes the calculated completeness for the project.

Table 5. Overall analytical completeness

Analysis	Samples Analyzed	Analytes per Sample	Number of Results					Percent Complete
			Total	Rejected	MDLs /RLs Exceeding Criteria	Estimated for QC Outliers	Estimated for Detects <RL	
Explosives	29	2	97*	0	6/7	33*	4*	100%
PCBs	29	7 (9)	300*	0	46/46	79*	1*	100%
SVOCs	29	4	120	0	73/73	80	33	100%
Metals	29	8 (9)	235	0	6/6	51	3	100%
Hexavalent Chromium	29	1	29	0	2/2	3	0	100%
Totals			781	0	133/134	246	41	100%

*Samples not validated at Level IV have more than one result for each analyte as the laboratory reported both the primary column and confirmation column results. This number is inclusive of all results not rejected as duplicate data

6.2. DATA DEFICIENCIES

6.2.1. SOURCES

No data were rejected. In instances where a data point had multiple results, the reviewer chose the most technically sound result to report and rejected the remaining data points. These rejected data points do not affect data quality or usability.

6.2.2. IMPACT ON DATA QUALITY

No data were rejected. The overall analytical completeness goal listed in the FWQAPP of 90% was met, with the actual completeness equal to 100%. Although 32% of the data was qualified, the data quality was not adversely impacted by these qualifications.

6.3. GENERAL DATA USABILITY

All data are usable with the assigned qualifications.

Specific concerns regarding the QA data are noted below:

- The reporting limits for the following compounds exceeded the criteria listed in Tables 3-3 through 3-9 of the FWQAPP. Unless otherwise noted, the MDLs met the project criteria:
 - All nondetected PCB results (analyzed undiluted)
 - Dibenzo(a,h)anthracene in LL3SS-294M-2009-QA
 - All hexavalent chromium reporting limits and MDLs

Specific concerns regarding the primary data are noted below:

- For the PCB samples validated at Level IV, the confirmation column chromatograms exhibited significantly more matrix interference with unresolved baseline areas than the original chromatograms. In instances where more than one result exists for samples that were reviewed by ADR or validated at Level III, the final data user should review the PCB chromatograms; prior to selecting the final valid results.
- Although required by the method, 7196A, no matrix spike analyses or sample replicate analysis was performed for hexavalent chromium.
- The reporting limits for the following nondetected analytes exceeded the project criteria. Unless otherwise noted below, the MDLs also exceeded the project criteria:
 - Due to dilutions for matrix interference, cadmium in six samples
 - Due to dilutions to report one or more analytes within the linear range of the calibration, all nondetected Aroclor results in four samples
 - All SVOC results in 18 samples
 - RDX in four samples; however, the MDL exceeded the project criteria in only three of these samples
 - 2,4,6-Trinitrotoluene in three samples; however, the MDLs only marginally exceeded the project criteria in these three samples

In order to avoid repetition of the issues noted above, the following actions should be taken:

- The primary laboratory should be requested to perform a hexavalent chromium matrix spike or matrix spike/matrix spike duplicate analyses on at least one site sample in each.

7. QA SAMPLE COMPARISONS

The following table presents the QA samples and associated primary samples. Results of these samples are compared in the following sections. A full comparison of all sample detects can be found in Appendix C.

Table 6. QA sample and primary sample associations

QA Sample	QA SDG	Primary Sample	Primary SDG	Collection Date	Analyses
LL2SS-315M-1287-QA	79727	LL2SS-315M-1286-SO	L10060742	6/22/2010	Explosives, Hexavalent Chromium, Metals, PCBs, Semivolatiles
LL3SS-294M-2009-QA	79478	LL3SS-294M-2008-SO	L10060255	6/8/2010	Explosives, Hexavalent Chromium, Metals, PCBs, Semivolatiles

As noted in section 5.1, the primary laboratory did not report mercury, Aroclor-1262 and Aroclor-1268. These analytes were not required.

A total of 9.1% of the QA pair results evaluated had RPDs above the control limit listed in FWQAPP Table 3-1 of 50%, or within \pm the reporting limit for detects less than 5x the reporting limit.

As noted in Table 7 below, there were a total of four discrepancies: RDX in each pair, Aroclor-1254 in the LL2SS-315M pair, and antimony in the LL2SS-294M pair. Antimony, Aroclor-1254, and RDX in LL2SS-315M-1287-QA were reported at higher concentrations by the QA laboratory.

The following table summarizes the discrepancies by method.

Table 7. Primary/QA sample comparison summary

Method	Analytes	Primary/QA Sample Pairs	Total Analytes	Results within control limits	Results exceeding control limits
Explosives	2	2	4	2	2
PCBs	7	2	14	13	1
SVOCs	4	2	8	8	0
Metals	8	2	16	15	1
Hexavalent Chromium	1	2	2	2	0
Total			44	40	4

Other than matrix interference noted by the laboratories in the analysis of LL2SS-1286-SO and LL2SS-1287-QA, MEC^x was not able to determine a potential cause for the discrepancies.

8. CONCLUSIONS AND RECOMMENDATIONS

Only 9.1% of the QA and primary data results were above the criteria of 50% RPD or within \pm the reporting limit when one detect was less than 5x the reporting limit. No recommendation as to the source of the discrepancies or potential solution to mitigate the discrepancies was identified by the reviewer.

9. REFERENCES

Contract Laboratory Program National Functional Guidelines for Organic Data Review. United States Environmental Protection Agency Contract Laboratory Program (CLP). February 1994.

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Department of Defense Quality Systems Manual for Environmental Laboratories, Version 3. DoD Data Quality Workgroup. January 2006.

Facility-Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant, Ravenna, Ohio. SAIC. March 2001.

Final Work Plan Addendum #1 for the Sampling of Soils Below Floor Slabs at RVAAP-08 Load Line 1 and Other Building Locations – Ravenna Army Ammunition Plant. URS Group, Inc. July 2009.

Louisville Chemistry Guideline, Version 5, Environmental Engineering Branch, United States Army Corps of Engineers, Louisville District. June 2002.

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Shell for Analytical Chemistry Requirements. United State Army Corps of Engineers. February 2001.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Revision 6. United States Environmental Protection Agency. February 2007.

APPENDIX A

Qualified Sample Result Forms

Qualification Code Reference Table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient was noncompliant.
R	Calibration RRF was noncompliant.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Not applicable	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	ICPMS tuning was noncompliant
T	Presumed contamination as indicated by the trip blank results.	Not applicable
+	False positive – reported compound was not present.	False positive – reported compound was not present.
-	False negative – compound was present but not reported.	False negative – compound was present but not reported.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
\$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*II, *III	A deficiency was found that has been described in the "Sample Management," section (*II) or the "Method Analyses" section (*III).	A deficiency was found that has been described in the "Sample Management," section (*II) or the "Method Analyses" section (*III).

Validated Sample Result Forms: 79478

Analysis Method 6010C

Sample Name	LL3SS-294M-2009-QA	AnalysisType: RES						
Lab Sample Name	808672	Validation Level: III						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	10400	0.12	0.041	mg/kg			
Antimony	7440-36-0	1.3	0.27	0.081	mg/kg		J-	Q
Arsenic	7440-38-2	14.2	0.46	0.13	mg/kg			
Barium	7440-39-3	67.8	0.027	0.0081	mg/kg			
Cadmium	7440-43-9	0.4	0.021	0.0061	mg/kg	Y	J	E
Chromium	7440-47-3	24.3	0.064	0.019	mg/kg			
Lead	7439-92-1	23	0.14	0.041	mg/kg		J-	A
Manganese	7439-96-5	817	0.051	0.016	mg/kg			

Analysis Method 7196A

Sample Name	LL3SS-294M-2009-QA	AnalysisType: RES						
Lab Sample Name	808672	Validation Level: III						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Hexavalent Chromium	18540-29-9	6.5	6.5	1.9	mg/kg	U	U	

Analysis Method 7471A

Sample Name	LL3SS-294M-2009-QA	AnalysisType: RES						
Lab Sample Name	808672	Validation Level: III						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Mercury	7439-97-6	0.034	0.008	0.0024	mg/kg			

Analysis Method 8082A

Sample Name	LL3SS-294M-2009-QA	AnalysisType:		RES				
Lab Sample Name	808672	Validation Level:		III				
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aroclor 1016	12674-11-2	51	51	10	ug/kg	U	UJ	C
Aroclor 1221	11104-28-2	51	51	20	ug/kg	U	UJ	C
Aroclor 1232	11141-16-5	51	51	28	ug/kg	U	UJ	C
Aroclor 1242	53469-21-9	51	51	30	ug/kg	U	UJ	C
Aroclor 1248	12672-29-6	51	51	30	ug/kg	U	UJ	C
Aroclor 1254	11097-69-1	51	51	23	ug/kg	U	UJ	C
Aroclor 1260	11096-82-5	51	51	12	ug/kg	UM	UJ	C
Aroclor 1262	37324-23-5	51	51	21	ug/kg	U	UJ	C
Aroclor 1268	11100-14-4	51	51	29	ug/kg	U	UJ	C

Analysis Method 8270C PAH

Sample Name	LL3SS-294M-2009-QA	AnalysisType:		RES				
Lab Sample Name	808672	Validation Level:		III				
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Benzo(a)anthracene	56-55-3	47	100	9.2	ug/kg	J	J	C
Benzo(a)pyrene	50-32-8	32	100	19	ug/kg	J	J	C
Benzo(b)fluoranthene	205-99-2	54	100	11	ug/kg	J	J	C
Dibenzo(a,h)anthracene	53-70-3	100	100	11	ug/kg	U	UJ	C

Analysis Method **8330-SHORT**

Sample Name	LL3SS-294M-2009-QA	AnalysisType: RES							
Lab Sample Name	808672	Validation Level: III							
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code	
2,4,6-Trinitrotoluene	118-96-7	0.28	0.5	0.089	mg/kg	J	J-	C	
RDX	121-82-4	0.26	0.5	0.16	mg/kg	J	J	C, \$, result changed from 0.26	

Validated Sample Result Forms: 79727

Analysis Method 6010C

Sample Name	LL2SS-315M-1287-QA	AnalysisType: RES						
Lab Sample Name	814637	Validation Level: III						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Aluminum	7429-90-5	3820	0.12	0.04	mg/kg			
Antimony	7440-36-0	0.96	0.27	0.08	mg/kg		J-	Q
Arsenic	7440-38-2	4.9	0.45	0.13	mg/kg			
Barium	7440-39-3	36.1	0.027	0.008	mg/kg			
Cadmium	7440-43-9	0.27	0.021	0.006	mg/kg			
Chromium	7440-47-3	17.5	0.063	0.019	mg/kg		J-	A
Lead	7439-92-1	40.4	0.14	0.04	mg/kg		J-	Q
Manganese	7439-96-5	356	0.05	0.016	mg/kg			

Analysis Method 7196A

Sample Name	LL2SS-315M-1287-QA	AnalysisType: RES						
Lab Sample Name	814637	Validation Level: III						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Hexavalent Chromium	18540-29-9	6.4	6.4	1.9	mg/kg	U	U	

Analysis Method 7471A

Sample Name	LL2SS-315M-1287-QA	AnalysisType: RES						
Lab Sample Name	814637	Validation Level: III						
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code
Mercury	7439-97-6	0.012	0.0079	0.0024	mg/kg			

Analysis Method 8082A

Sample Name	LL2SS-315M-1287-QA	AnalysisType: RES							
Lab Sample Name	814637	Validation Level: III							
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code	
Aroclor 1016	12674-11-2	50	50	10	ug/kg	UM	UJ	C	
Aroclor 1221	11104-28-2	50	50	20	ug/kg	U	UJ	C	
Aroclor 1232	11141-16-5	50	50	27	ug/kg	U	UJ	C	
Aroclor 1242	53469-21-9	50	50	29	ug/kg	U	UJ	C	
Aroclor 1248	12672-29-6	50	50	29	ug/kg	U	UJ	C	
Aroclor 1254	11097-69-1	1200	100	46	ug/kg				
Aroclor 1260	11096-82-5	50	50	12	ug/kg	UM	UJ	C	
Aroclor 1262	37324-23-5	610	50	21	ug/kg				
Aroclor 1268	11100-14-4	50	50	28	ug/kg	U	UJ	C	

Analysis Method 8270C PAH

Sample Name	LL2SS-315M-1287-QA	AnalysisType: RES							
Lab Sample Name	814637	Validation Level: III							
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code	
Benzo(a)anthracene	56-55-3	660	100	9	ug/kg		J	C	
Benzo(a)pyrene	50-32-8	700	100	19	ug/kg		J	C	
Benzo(b)fluoranthene	205-99-2	900	100	11	ug/kg		J	C	
Dibenzo(a,h)anthracene	53-70-3	110	100	11	ug/kg		J	C	

Analysis Method 8330-SHORT

Sample Name	LL2SS-315M-1287-QA	AnalysisType: RES							
Lab Sample Name	814637	Validation Level: III							
	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Qualifier Code	
2,4,6-Trinitrotoluene	118-96-7	76	5	0.9	mg/kg	M	J-	C	
RDX	121-82-4	32	5	1.6	mg/kg	M	J	C	

APPENDIX B

Sample Qualification Summary

Sample	Analyte	Result	RL	MDL	Units	Qualifier	Code	Val Level
LL2SS-315M-1287-QA	Antimony	0.96	0.27	0.08	mg/kg	J-	Q	III
LL2SS-315M-1287-QA	Chromium	17.5	0.063	0.019	mg/kg	J-	A	III
LL2SS-315M-1287-QA	Lead	40.4	0.14	0.04	mg/kg	J-	Q	III
LL2SS-315M-1287-QA	Aroclor 1016	50	50	10	ug/kg	UJ	C	III
LL2SS-315M-1287-QA	Aroclor 1221	50	50	20	ug/kg	UJ	C	III
LL2SS-315M-1287-QA	Aroclor 1232	50	50	27	ug/kg	UJ	C	III
LL2SS-315M-1287-QA	Aroclor 1242	50	50	29	ug/kg	UJ	C	III
LL2SS-315M-1287-QA	Aroclor 1248	50	50	29	ug/kg	UJ	C	III
LL2SS-315M-1287-QA	Aroclor 1260	50	50	12	ug/kg	UJ	C	III
LL2SS-315M-1287-QA	Aroclor 1268	50	50	28	ug/kg	UJ	C	III
LL2SS-315M-1287-QA	Benzo(a)anthracene	660	100	9	ug/kg	J	C	III
LL2SS-315M-1287-QA	Benzo(a)pyrene	700	100	19	ug/kg	J	C	III
LL2SS-315M-1287-QA	Benzo(b)fluoranthene	900	100	11	ug/kg	J	C	III
LL2SS-315M-1287-QA	Dibenzo(a,h)anthracene	110	100	11	ug/kg	J	C	III
LL2SS-315M-1287-QA	2,4,6-Trinitrotoluene	76	5	0.9	mg/kg	J-	C	III
LL2SS-315M-1287-QA	RDX	32	5	1.6	mg/kg	J	C	III
LL3SS-294M-2009-QA	Antimony	1.3	0.27	0.081	mg/kg	J-	Q	III
LL3SS-294M-2009-QA	Cadmium	0.4	0.021	0.0061	mg/kg	J	E	III
LL3SS-294M-2009-QA	Lead	23	0.14	0.041	mg/kg	J-	A	III
LL3SS-294M-2009-QA	Aroclor 1016	51	51	10	ug/kg	UJ	C	III
LL3SS-294M-2009-QA	Aroclor 1221	51	51	20	ug/kg	UJ	C	III
LL3SS-294M-2009-QA	Aroclor 1232	51	51	28	ug/kg	UJ	C	III
LL3SS-294M-2009-QA	Aroclor 1242	51	51	30	ug/kg	UJ	C	III
LL3SS-294M-2009-QA	Aroclor 1248	51	51	30	ug/kg	UJ	C	III
LL3SS-294M-2009-QA	Aroclor 1254	51	51	23	ug/kg	UJ	C	III
LL3SS-294M-2009-QA	Aroclor 1260	51	51	12	ug/kg	UJ	C	III
LL3SS-294M-2009-QA	Aroclor 1262	51	51	21	ug/kg	UJ	C	III
LL3SS-294M-2009-QA	Aroclor 1268	51	51	29	ug/kg	UJ	C	III
LL3SS-294M-2009-QA	Benzo(a)anthracene	47	100	9.2	ug/kg	J	C	III
LL3SS-294M-2009-QA	Benzo(a)pyrene	32	100	19	ug/kg	J	C	III
LL3SS-294M-2009-QA	Benzo(b)fluoranthene	54	100	11	ug/kg	J	C	III
LL3SS-294M-2009-QA	Dibenzo(a,h)anthracene	100	100	11	ug/kg	UJ	C	III
LL3SS-294M-2009-QA	2,4,6-Trinitrotoluene	0.28	0.5	0.089	mg/kg	J-	C	III
LL3SS-294M-2009-QA	RDX	0.28	0.5	0.16	mg/kg	J	C, S, result changed from 0.26	III

APPENDIX C

QA/Primary Sample Comparisons

Sample	Analyte	Result	RL	Units	Qualifier	QA Sample	Result	RL	Units	Qualifier	RPD	w/in +/-RL
LL2SS-315M-1286-SO	Aroclor-1260	8.17	16.3	ug/kg	U	LL2SS-315M-1287-QA	50	50	ug/kg	UJ	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1254	480	16.3	ug/kg		LL2SS-315M-1287-QA	1200	100	ug/kg		85.7	N/A
LL2SS-315M-1286-SO	Aroclor-1221	8.17	16.3	ug/kg	U	LL2SS-315M-1287-QA	50	50	ug/kg	UJ	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1232	8.17	16.3	ug/kg	U	LL2SS-315M-1287-QA	50	50	ug/kg	UJ	N/A	Yes
LL2SS-315M-1286-SO	2,4,6-Trinitrotoluene	46.4	2.48	mg/kg		LL2SS-315M-1287-QA	76	5	mg/kg	J-	48.4	N/A
LL2SS-315M-1286-SO	RDX	9.65	2.48	mg/kg		LL2SS-315M-1287-QA	32	5	mg/kg	J	N/A	No
LL2SS-315M-1286-SO	Aroclor-1248	8.17	16.3	ug/kg	U	LL2SS-315M-1287-QA	50	50	ug/kg	UJ	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1016	8.17	16.3	ug/kg	U	LL2SS-315M-1287-QA	50	50	ug/kg	UJ	N/A	Yes
LL2SS-315M-1286-SO	Hexavalent chromium	0.049	0.0977	mg/kg	UJ	LL2SS-315M-1287-QA	6.4	6.4	mg/kg	U	N/A	Yes
LL2SS-315M-1286-SO	Benzo(b)fluoranthene	957	819	ug/kg		LL2SS-315M-1287-QA	900	100	ug/kg	J	N/A	Yes
LL2SS-315M-1286-SO	Benzo(a)pyrene	1130	819	ug/kg		LL2SS-315M-1287-QA	700	100	ug/kg	J	N/A	Yes
LL2SS-315M-1286-SO	Aroclor-1242	8.17	16.3	ug/kg	U	LL2SS-315M-1287-QA	50	50	ug/kg	UJ	N/A	Yes
LL2SS-315M-1286-SO	Dibenzo(a,h)Anthracene	410	819	ug/kg	U	LL2SS-315M-1287-QA	110	100	ug/kg	J	N/A	Yes
LL2SS-315M-1286-SO	Benzo(a)anthracene	1010	819	ug/kg		LL2SS-315M-1287-QA	660	100	ug/kg	J	N/A	Yes
LL2SS-315M-1286-SO	Aluminum	3250	15.3	mg/kg		LL2SS-315M-1287-QA	3820	0.12	mg/kg		16.1	N/A
LL2SS-315M-1286-SO	Lead	34.6	0.2	mg/kg	J	LL2SS-315M-1287-QA	40.4	0.14	mg/kg	J-	15.5	N/A
LL2SS-315M-1286-SO	Manganese	308	0.383	mg/kg		LL2SS-315M-1287-QA	356	0.05	mg/kg		14.5	N/A
LL2SS-315M-1286-SO	Antimony	0.973	0.0958	mg/kg		LL2SS-315M-1287-QA	0.96	0.27	mg/kg	J-	N/A	Yes
LL2SS-315M-1286-SO	Arsenic	5.03	1.5	mg/kg		LL2SS-315M-1287-QA	4.9	0.45	mg/kg		N/A	Yes
LL2SS-315M-1286-SO	Barium	32.3	0.383	mg/kg		LL2SS-315M-1287-QA	36.1	0.027	mg/kg		11.1	N/A
LL2SS-315M-1286-SO	Cadmium	0.388	0.0766	mg/kg	J-	LL2SS-315M-1287-QA	0.27	0.021	mg/kg		35.9	N/A
LL2SS-315M-1286-SO	Chromium	19.8	0.191	mg/kg		LL2SS-315M-1287-QA	17.5	0.063	mg/kg	J-	12.3	N/A
LL3SS-294M-2008-SO	Aroclor-1260	8.28	16.6	ug/kg	U	LL3SS-294M-2009-QA	51	51	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1254	27.9	16.6	ug/kg		LL3SS-294M-2009-QA	51	51	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1221	8.28	16.6	ug/kg	U	LL3SS-294M-2009-QA	51	51	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1232	8.28	16.6	ug/kg	U	LL3SS-294M-2009-QA	51	51	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	2,4,6-Trinitrotoluene	0.765	0.248	mg/kg		LL3SS-294M-2009-QA	0.28	0.5	mg/kg	J-	N/A	Yes
LL3SS-294M-2008-SO	RDX	1.44	0.248	mg/kg		LL3SS-294M-2009-QA	0.28	0.5	mg/kg	J	N/A	No
LL3SS-294M-2008-SO	Aroclor-1248	8.28	16.6	ug/kg	U	LL3SS-294M-2009-QA	51	51	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1016	8.28	16.6	ug/kg	U	LL3SS-294M-2009-QA	51	51	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Hexavalent chromium	0.049	0.0982	mg/kg	UJ	LL3SS-294M-2009-QA	6.5	6.5	mg/kg	U	N/A	Yes
LL3SS-294M-2008-SO	Benzo(b)fluoranthene	80.2	160	ug/kg	UJ	LL3SS-294M-2009-QA	54	100	ug/kg	J	N/A	Yes
LL3SS-294M-2008-SO	Benzo(a)pyrene	80.2	160	ug/kg	UJ	LL3SS-294M-2009-QA	32	100	ug/kg	J	N/A	Yes
LL3SS-294M-2008-SO	Aroclor-1242	8.28	16.6	ug/kg	U	LL3SS-294M-2009-QA	51	51	ug/kg	UJ	N/A	Yes

Sample	Analyte	Result	RL	Units	Qualifier	QA Sample	Result	RL	Units	Qualifier	RPD	w/in +/-RL
LL3SS-294M-2008-SO	Dibenzo(a,h)Anthracene	80.2	160	ug/kg	UJ	LL3SS-294M-2009-QA	100	100	ug/kg	UJ	N/A	Yes
LL3SS-294M-2008-SO	Benzo(a)anthracene	80.2	160	ug/kg	UJ	LL3SS-294M-2009-QA	47	100	ug/kg	J	N/A	Yes
LL3SS-294M-2008-SO	Aluminum	7900	15.2	mg/kg		LL3SS-294M-2009-QA	10400	0.12	mg/kg		27.3	N/A
LL3SS-294M-2008-SO	Lead	27.7	0.194	mg/kg		LL3SS-294M-2009-QA	23	0.14	mg/kg	J-	18.5	N/A
LL3SS-294M-2008-SO	Manganese	784	0.379	mg/kg		LL3SS-294M-2009-QA	817	0.051	mg/kg		4.1	N/A
LL3SS-294M-2008-SO	Antimony	0.288	0.1	mg/kg		LL3SS-294M-2009-QA	1.3	0.27	mg/kg	J-	N/A	No
LL3SS-294M-2008-SO	Arsenic	11.9	0.291	mg/kg		LL3SS-294M-2009-QA	14.2	0.46	mg/kg		17.6	N/A
LL3SS-294M-2008-SO	Barium	64	0.379	mg/kg		LL3SS-294M-2009-QA	67.8	0.027	mg/kg		5.8	N/A
LL3SS-294M-2008-SO	Cadmium	0.19	0.379	mg/kg	U	LL3SS-294M-2009-QA	0.4	0.021	mg/kg	J	N/A	Yes
LL3SS-294M-2008-SO	Chromium	14.9	0.19	mg/kg		LL3SS-294M-2009-QA	24.3	0.064	mg/kg		48.0	N/A

APPENDIX D
Validator Checklists

SEMIVOLATILE ORGANIC ANALYSIS CHECKLIST

Project Name: Ravenna Id 2, 3

Laboratory: CT Laboratories

Batch Number(s): 33543, 33682

Sample Delivery Group: 79478, 79727

	<u>Yes</u>	<u>No</u>
1. <u>Sample Holding Time:</u>		
(a) Were samples extracted within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(b) Were samples analyzed within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. <u>Instrument Tuning:</u>		
Was the DFTPP tune performed at the beginning of each 12-hour period during which samples were analyzed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. <u>Ion Mass Assignments:</u>		
Was mass assignment based on m/z 198?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. <u>Ion Abundance:</u>		
Indicate if DFTPP ions abundance relative to m/z 198 base peak met the ions abundance criteria:		
<u>m/z</u> <u>Acceptance Criteria</u>		
51 30.0 - 60.0 %	<input checked="" type="checkbox"/>	<input type="checkbox"/>
68 < 2% of mass 69	<input checked="" type="checkbox"/>	<input type="checkbox"/>
70 < 2% of mass 69	<input checked="" type="checkbox"/>	<input type="checkbox"/>
127 40-60%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
197 < 1%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
198 100%, Base peak	<input checked="" type="checkbox"/>	<input type="checkbox"/>
199 5-9%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
275 10 - 30%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
365 > 1%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
441 present but < mass 443	<input checked="" type="checkbox"/>	<input type="checkbox"/>
442 > 40%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
443 17-23% of mass 442	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	<u>Yes</u>	<u>No</u>																						
5.0 Initial Calibration:																								
<ul style="list-style-type: none"> Did the initial calibration consist of five or more standards? (8) more 	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>																						
If the calibration curve consists of 5-standards, check validity of the calibration model.																								
Was the linear model applied?	<input checked="" type="checkbox"/>	<input type="checkbox"/>																						
<ul style="list-style-type: none"> Did the followings System Performance Check Compounds (SPCC) meet the minimum mean response factor (RF)? 																								
<table border="0" style="border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;"><u>RF</u></td> <td></td> <td></td> <td></td> </tr> <tr> <td>N-nitroso-di-n-propylamine</td> <td style="text-align: center;">0.05</td> <td rowspan="4" style="text-align: center; vertical-align: middle;"> (NTCS) ↓ </td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Hexachlorocyclopentadiene</td> <td style="text-align: center;">0.05</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>2,4-dinitrophenol</td> <td style="text-align: center;">0.05</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>4-nitrophenol</td> <td style="text-align: center;">0.05</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>		<u>RF</u>				N-nitroso-di-n-propylamine	0.05	(NTCS) ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hexachlorocyclopentadiene	0.05	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2,4-dinitrophenol	0.05	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4-nitrophenol	0.05	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	<u>RF</u>																							
N-nitroso-di-n-propylamine	0.05	(NTCS) ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>																				
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4-nitrophenol	0.05		<input checked="" type="checkbox"/>	<input type="checkbox"/>																				
<ul style="list-style-type: none"> Did the RSD meet the criteria $\leq 30\%$ for the followings each individual Calibration Check Compound (CCC)? 																								
<u>Base/Neutral Fraction:</u>																								
<table border="0" style="border-collapse: collapse;"> <tr> <td>Acenaphthene</td> <td rowspan="8" style="text-align: center; vertical-align: middle;"> NTCs ↓ </td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>1,4-Dichlorobenzene</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Hexachlorobutadiene</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Diphenylamine</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Di-n-octylphthalate</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fluoranthene</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Benzo(a)pyrene</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Acenaphthene	NTCs ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,4-Dichlorobenzene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hexachlorobutadiene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Diphenylamine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Di-n-octylphthalate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fluoranthene	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Benzo(a)pyrene	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Acenaphthene	NTCs ↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>																				
1,4-Dichlorobenzene			<input checked="" type="checkbox"/>	<input type="checkbox"/>																				
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Di-n-octylphthalate			<input checked="" type="checkbox"/>	<input type="checkbox"/>																				
Fluoranthene			<input checked="" type="checkbox"/>	<input type="checkbox"/>																				
Benzo(a)pyrene			<input checked="" type="checkbox"/>	<input type="checkbox"/>																				
<u>Acid Fraction:</u>																								
<table border="0" style="border-collapse: collapse;"> <tr> <td>4-Chloro-3-methylphenol</td> <td rowspan="6" style="text-align: center; vertical-align: middle;"> NTCs ↓ </td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>2,4-Dichlorophenol</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>2-Nitrophenol</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Phenol</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Pentachlorophenol</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>2,4,6-Trichlorophenol</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	4-Chloro-3-methylphenol	NTCs ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2,4-Dichlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2-Nitrophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Phenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pentachlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2,4,6-Trichlorophenol	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
4-Chloro-3-methylphenol	NTCs ↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>																				
2,4-Dichlorophenol			<input checked="" type="checkbox"/>	<input type="checkbox"/>																				
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Phenol			<input checked="" type="checkbox"/>	<input type="checkbox"/>																				
Pentachlorophenol			<input checked="" type="checkbox"/>	<input type="checkbox"/>																				
2,4,6-Trichlorophenol		<input checked="" type="checkbox"/>	<input type="checkbox"/>																					
<ul style="list-style-type: none"> Are the RSDs for the remaining target analytes $\leq 15\%$? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>																						
<ul style="list-style-type: none"> If the answer is "No", are the mean RSDs $\leq 15\%$ or $r \geq 0.99$ with a mean RSD $\leq 15\%$ with a maximum RSD $\leq 30\%$? 	N/A ↓ <input type="checkbox"/>	<input type="checkbox"/>																						

- Was manual integration "M" performed? *N/A - Level III*

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>

MC

If the answer is "Yes", check for supporting documents.

- Was the manual integration necessary?

↓	<input type="checkbox"/>	<input type="checkbox"/>
---	--------------------------	--------------------------

If the answer is "No", contact the laboratory inquiring about the reasons behind the manual integration, and **inform the District Chemist immediately if there were no valid reasons.**

6. QCMDL:

- Was MDL Check performed?

<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	-------------------------------------

7. QCMRL:

- Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours?

<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	-------------------------------------
- All results qualified J/UJ/A*
Was the QC/MRL between 70-130% R?

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------
- For the non-contaminants of concern was the QC/MRL between 50-150% (Sporadic Marginal Failure)?

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

N/A

8. Initial Calibration Verification (ICV):

- Is the mid level (2nd source) recovery within 70-130% for contaminants of concern?

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------
- Is the mid level (2nd source) recovery within 50-150% for non-contaminants of concern (Sporadic Marginal Failure)?

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

9. Continuing Calibration Verification (CCV):

- Was CCV conducted every 12 hours?

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------
- Did any of SPCC meet the minimum RF values?

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

			Yes	No
N-nitroso-di-n-propylamine	0.05	NTCS ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hexachlorocyclopentadiene	0.05		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2,4-dinitrophenol	0.05		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4-nitrophenol	0.05		<input checked="" type="checkbox"/>	<input type="checkbox"/>

- Did the CCC meet the minimum requirements ($D \leq 20\%$) for the followings?

Base/Neutral Fraction:

Acenaphthene	NTCS ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1,4-Dichlorobenzene		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hexachlorobutadiene		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Diphenylamine		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Di-n-octylphthalate		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fluoranthene		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Benzo(a)pyrene		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Acid Fraction:

4-Chloro-3-methylphenol	NTCS ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2,4-Dichlorophenol		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2-Nitrophenol		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Phenol		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pentachlorophenol		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2,4,6-Trichlorophenol		<input checked="" type="checkbox"/>	<input type="checkbox"/>

- Primary Evaluation: Was Drift or $D \leq 20\%$ calculated from the initial calibration?
- Alternative Evaluation: Maximum allowable Drift/D for each target analyte is $\leq 30\%$.

10. Sample Analysis:

- Was the RRT of an identified component within ± 0.06 RRT units of the RRT of the standard component?
- Did the abundance of ions in the sample spectra agree within 30% of the major ions ($> 10\%$ of the base ion) in the standard spectra?
- Were the internal standard areas within the QC limits (from -50% to +200%)?

11. Sample Quality Control:

- | | <u>Yes</u> | <u>No</u> |
|--|------------|-----------|
| • <u>Method Blanks</u> : Were target analytes $\leq 1/2$ MRL? | [✓] | [] |
| • <u>LCS</u> : Were the percent recoveries for LCS within the limits? | [✓] | [] |
| • <u>MS/MSD</u> : Were the percent recoveries within limits? | [✓] | [] |
| Were the RPD within control limits? | [✓] | [] |
| • <u>System Monitoring Compounds (Surrogates)</u> : are surrogate recoveries within QC limits? | [✓] | [] |

12. Comments (attach additional sheets if necessary):

Validated/Reviewed by:

Signature: Lynn S. Calvin

Date: 11.20.2010

Name: Lynn S. Calvin

POLY CHLORINATED BIPHENYLS (PCB/AROCLORS) CHECKLIST

Project Name: Ravenna LL 2,3
Laboratory: CT Laboratories
Batch Number(s): 33541, 33681
Sample Delivery Group: 79478, 79727

- | | <u>Yes</u> | <u>No</u> |
|--|-------------------------------------|-------------------------------------|
| 1. Holding Time: | | |
| (a) Were samples extracted within holding time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (b) Were samples analyzed within holding time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Initial Calibration: | | |
| • Did the initial calibration consist of five standards? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Did Aroclors 1016 and 1260 meet the $RSD \leq 20\%$ or the $r \geq 0.99$? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Was manual integration "M" performed? <u>N/A @ Level III</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| If the answer is "Yes", check for supporting documents. | | |
| • Was the manual integration necessary? <u>↓</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| <p>If the answer is "no", contact the laboratory inquiring about the reasons behind the manual integration, and inform the District Chemist immediately if there were no valid reasons.</p> | | |
| 3. QCMDL: | | |
| • Was MDL Check performed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. QCMRL: | | |
| • Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours?? <u>Handwritten</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| • Was the QC/MRL between 70-130% R <u>Non-detects qual'd w/ N/A</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Initial Calibration Verification (ICV): | | |
| Is the mid level (2 nd source) recovery within 85 - 115%? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

	<u>Yes</u>	<u>No</u>
6. Continuing Calibration Verification (CCV):		
• Was CCV conducted every 12 hours?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was Drift or $D \leq 15\%$ from the initial calibration with a maximum $\%D < 20\%$ for a specific compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Sample Analysis:		
• Was the RRT of an identified component within the retention time window created as SW-846 requires?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Were samples with levels higher than the calibration range (E), diluted and re-analyzed? N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Were identified Aroclors confirmed on a second GC column?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Were individual Aroclor standards used to determine the pattern of the peaks? (Individual Aroclors are 1221, 1232, 1242, 1248, and 1254. Both Aroclor 1016, and 1260 can be used from the mixed calibration standards.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was RPD of target analyte conformation $\leq 40\%$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Sample Quality Control:		
• <u>Method Blanks</u> : Were target analytes $\leq 1/2$ MRL?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• <u>LCS</u> : Were the percent recoveries for LCS within the limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• <u>MS/MSD</u> : Were the percent recoveries within limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were the RPDs within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• <u>System Monitoring Compounds (Surrogates)</u> : are surrogate recoveries within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

NITROAROMATICS & NITRAMINE DATA ANALYSIS (EXPLOSIVE RESIDUES) CHECKLIST

Project Name: Ravenna LL23 June 2010

Laboratory: CT

Batch Number(s): _____

Sample Delivery Group: 79727

- | | <u>Yes</u> | <u>No</u> |
|---|-------------------------------------|-------------------------------------|
| 1. Holding Time:
Were samples analyzed within holding time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Initial Calibration: | | |
| <i>N/A @ III</i> • Did the initial calibration consist of five standards? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Did the RSD meet the criteria $\leq 20\%$ for each individual Calibration Compound or $r \geq 0.99$? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <i>N/A @ III</i> • Was manual integration "M" performed?
If the answer is "Yes", check for supporting documents. | <input type="checkbox"/> | <input type="checkbox"/> |
| • Was the manual integration necessary? | <input type="checkbox"/> | <input type="checkbox"/> |
| If the answer is "no", contact the laboratory inquiring about the reasons behind the manual integration, and inform the District Chemist immediately if there were no valid reasons. | | |
| 3. QCMDL: | | |
| • Was MDL Check performed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. QCMRL: | | |
| • Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours?? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| • Was the percentage "D" for QC/MRL $\leq 30\%$? | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Initial Calibration Verification (ICV): | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

	<u>Yes</u>	<u>No</u>
<ul style="list-style-type: none"> Was the ICV made of a 2nd source? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Was the mid level (2nd source) recovery within 85 - 115%? 		
6. Continuing Calibration Verification (CCV): {Daily calibration}		
<ul style="list-style-type: none"> Was midpoint calibration standard conducted at the beginning of the day? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Was midpoint calibration standard conducted every ten samples or every twelve hours? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Was midpoint calibration standard conducted after the last sample of the day? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Did the CCV meet the minimum requirements ($D \leq 15\%$ with a maximum $D \leq 20\%$ for a specific compound if the mean $D \leq 15\%$)? 	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Sample Analysis:		
<p><i>N/A @ III</i></p> <ul style="list-style-type: none"> Was the RRT of an identified component within the retention time window created as SW-846 requires? 	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Were all identified hits, above the initial calibration curve, diluted and reanalyzed? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Were all identified hits confirmed on a second column? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Was RPD of target analyte confirmation ≤ 40? 	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>N/A @ III</i></p> <ul style="list-style-type: none"> Was there a shoulder on the 2,4,6-TNT peak? 	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>If the answer is "Yes", then tetryl decomposition is suspected. Peak height rather than peak area should be used for calculating TNT concentration. If teryl was identified in aqueous samples, was pH adjusted to <3?</p> <p>If the answer is "No", then check for tetryl decomposition, and qualify hits with "J" accordingly.</p>	<input type="checkbox"/>	<input type="checkbox"/>
8. Sample Quality Control:		
<ul style="list-style-type: none"> <u>Method Blanks</u>: Were target analytes $\leq 1/2$ MRL? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> <u>LCS</u>: Were the percent recoveries for LCS within the limits? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>

*7/8 H-23
10% → 13122
conf → 22159
Conf 10% → 7/4 257*

<u>Yes</u>	<u>No</u>
<input type="checkbox"/>	<input type="checkbox"/>

- MS/MSD: Were the percent recoveries within limits?
Yes, but 74x spike
Were the RPDs within control limits?

- System Monitoring Compounds (Surrogates): Were surrogate recoveries within QC limits?

9. Comments (attach additional sheets if necessary):

TNT 20D 15.8% 7/9 00:47 brackets Conf

Validated/Reviewed by:

Signature: Pat M

Date: 11/11/10

Name: Pat. Marks

NITROAROMATICS & NITRAMINE DATA ANALYSIS (EXPLOSIVE RESIDUES) CHECKLIST

Project Name: Ravenna LL2+3 June 2010

Laboratory: CT

Batch Number(s): _____

Sample Delivery Group: 79478

- | | <u>Yes</u> | <u>No</u> |
|--|---|-------------------------------------|
| 1. Holding Time:
Were samples analyzed within holding time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Initial Calibration: | | |
| • Did the initial calibration consist of five standards? | <u>N/A @ III</u> <input type="checkbox"/> | <input type="checkbox"/> |
| • Did the RSD meet the criteria $\leq 20\%$ for each individual Calibration Compound or $r \geq 0.99$? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Was manual integration "M" performed?
If the answer is "Yes", check for supporting documents. | <u>N/A @ III</u> <input type="checkbox"/> | <input type="checkbox"/> |
| • Was the manual integration necessary? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <p>If the answer is "no", contact the laboratory inquiring about the reasons behind the manual integration, and inform the District Chemist immediately if there were no valid reasons.</p> | | |
| 3. QCMDL: | | |
| • Was MDL Check performed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. QCMRL: | | |
| • Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours?? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| • Was the percentage "D" for QC/MRL $\leq 30\%$? | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Initial Calibration Verification (ICV): | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

	<u>Yes</u>	<u>No</u>
<ul style="list-style-type: none"> Was the ICV made of a 2nd source? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Was the mid level (2nd source) recovery within 85 - 115%? 		
6. Continuing Calibration Verification (CCV): {Daily calibration}		
<ul style="list-style-type: none"> Was midpoint calibration standard conducted at the beginning of the day? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Was midpoint calibration standard conducted every ten samples or every twelve hours? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Was midpoint calibration standard conducted after the last sample of the day? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Did the CCV meet the minimum requirements ($D \leq 15\%$ with a maximum $D \leq 20\%$ for a specific compound if the mean $D \leq 15\%$)? 	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Sample Analysis:		
N/A e III <ul style="list-style-type: none"> Was the RRT of an identified component within the retention time window created as SW-846 requires? 	<input type="checkbox"/>	<input type="checkbox"/>
N/A <ul style="list-style-type: none"> Were all identified hits, above the initial calibration curve, diluted and reanalyzed? 	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Were all identified hits confirmed on a second column? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Was RPD of target analyte confirmation ≤ 40? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Was there a shoulder on the 2,4,6-TNT peak? 	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>If the answer is "Yes", then tetryl decomposition is suspected. Peak height rather than peak area should be used for calculating TNT concentration. If teryl was identified in aqueous samples, was pH adjusted to <3?</p> <p>If the answer is "No", then check for tetryl decomposition, and qualify hits with "J" accordingly.</p>	<input type="checkbox"/>	<input type="checkbox"/>
8. Sample Quality Control:		
<ul style="list-style-type: none"> <u>Method Blanks</u>: Were target analytes $\leq 1/2$ MRL? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> <u>LCS</u>: Were the percent recoveries for LCS within the limits? 	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Yes</u>	<u>No</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

- MS/MSD: Were the percent recoveries within limits?
LL355-294M-2009-QA
Were the RPDs within control limits?

- System Monitoring Compounds (Surrogates): Were surrogate recoveries within QC limits?

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

9. Comments (attach additional sheets if necessary):

9.0 D 246 TNT Conf 7/9 00:47 15.8%
Sample 7/8 @ 18:18

No MRLs

Validated/Reviewed by:

Signature: Patti Meeks

Date: 11/10/14

Name: Patti Meeks

ICP METALS ANALYSIS (6010) CHECKLIST

Project Name: Ravenna LL2+3 June 2010

Laboratory: CT

Batch Number(s): _____

Sample Delivery Group: 79478

	<u>Yes</u>	<u>No</u>
1. Holding Time:		
• Were samples analyzed within holding time (6-Months)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Initial Calibration:		
• Did the initial calibration consist of		
One calibration standard and a blank?	<input type="checkbox"/>	<input type="checkbox"/>
three calibration standards and a blank?	<input type="checkbox"/>	<input type="checkbox"/>
• Was $R \geq 0.995$	<input type="checkbox"/>	<input type="checkbox"/>
3. QCMDL:		
• Was MDL Check performed?	<input type="checkbox"/>	<input type="checkbox"/>
QCMRL:		
• Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours??	<input type="checkbox"/>	<input checked="" type="checkbox"/> <i>begin only</i>
• Was the QC/MRL between 70-130% R? Common Elements can be between the MRL and 2X MRL level (Fe, Al, Mg and Ca)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Initial Calibration Verification (ICV):		
• Is the mid level (2 nd source) recovery within 90 - 110%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Initial Calibration Blank (ICB):	<input checked="" type="checkbox"/>	<input type="checkbox"/> <i>but insuff.</i>

	Yes	No
• Were analytes in the blank \leq 1/2 MRL?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Interelement Check Standard:		
• Was ICS-A (interferents only) conducted at the beginning of analytical sequence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was ICS-AB results within QC limits (80-120)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Continuing calibration Blank (CCB):		
• Was CCB conducted every 10 samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was CCB conducted at end of the analytical sequence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Were analytes \leq 1/2 MRL?	<input type="checkbox"/>	<input checked="" type="checkbox"/> but insuff
8. Continuing Calibration Verification (CCV):		
• Was CCV conducted every 10 samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was CCV conducted at end of the analytical sequence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was the %R between 90-110?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Sample Analysis:		
• Were samples with levels higher than the calibration range (E), diluted and re-analyzed?	<input type="checkbox"/>	<input type="checkbox"/>
	N/A	
10. Sample Quality Control:		
• <u>Method Blanks</u> : Were target analytes \leq 1/2 MRL?	<input type="checkbox"/>	<input checked="" type="checkbox"/> but insuff
• <u>LCS</u> : Were the percent recoveries for LCS within the limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• <u>MS</u> : Were the percent recoveries within limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
• <u>MD</u> : Were the RPDs within control limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		LL 355-294M-2009-QA
11. Serial Dilution:		
• Was serial dilution (1:4) conducted when needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- | | | |
|--|------------|-------------------------------------|
| | <u>Yes</u> | <u>No</u> |
| • Was there an agreement between diluted and undiluted results (<10%)? | [] | <input checked="" type="checkbox"/> |
12. Method of Standard Addition (MSA):
- | | | |
|---|-----|-----|
| • Was MSA performed on samples suspected of matrix effect ($R \geq 0.995$)? | [] | [] |
|---|-----|-----|
- N/A

13. Comments (attach additional sheets if necessary):

MS/D : sb (13, 11)

Dup Cd 50%

SD Pb 19%

Validated/Reviewed by:

Signature: Patti Meeks

Date: 11/10/10

Name: Patti Meeks

ICP METALS ANALYSIS (6010) CHECKLIST

Project Name: Ravenna LL2+3 June 2010

Laboratory: CT

Batch Number(s): _____

Sample Delivery Group: 79727

	<u>Yes</u>	<u>No</u>
1. Holding Time:		
• Were samples analyzed within holding time (6-Months)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Initial Calibration:		
• Did the initial calibration consist of One calibration standard and a blank? three calibration standards and a blank?	N/A @ III ↓ <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
• Was $R \geq 0.995$	<input type="checkbox"/>	<input type="checkbox"/>
3. QCMDL:		
• Was MDL Check performed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
QCMRL:		
• Were QC/MRL run at the beginning and end of every daily sequence or every 12 hours??	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> begin only <input type="checkbox"/>
• Was the QC/MRL between 70-130% R? Common Elements can be between the MRL and 2X MRL level (Fe, Al, Mg and Ca)	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Initial Calibration Verification (ICV):		
• Is the mid level (2 nd source) recovery within 90 - 110%?		
5. Initial Calibration Blank (ICP):		

	Yes []	No []	
• Were analytes in the blank \leq 1/2 MRL?	[]	[]	but insuff
6. Interelement Check Standard:			
• Was ICS-A (interferents only) conducted at the beginning of analytical sequence?	[]	[]	
• Was ICS-AB results within QC limits (80-120)?	[]	[]	
7. Continuing calibration Blank (CCB):			
• Was CCB conducted every 10 samples?	[]	[]	
• Was CCB conducted at end of the analytical sequence?	[]	[]	
• Were analytes \leq 1/2 MRL?	[]	[]	but insuff
8. Continuing Calibration Verification (CCV):			
• Was CCV conducted every 10 samples?	[]	[]	
• Was CCV conducted at end of the analytical sequence?	[]	[]	
• Was the %R between 90-110?	[]	[]	
9. Sample Analysis:			
• Were samples with levels higher than the calibration range (E), diluted and re-analyzed?	[]	[]	N/A
10. Sample Quality Control:			
• <u>Method Blanks</u> : Were target analytes \leq 1/2 MRL?	[]	[]	but insuff.
• <u>LCS</u> : Were the percent recoveries for LCS within the limits?	[]	[]	
• <u>MS</u> : Were the percent recoveries within limits?	[]	[]	
• <u>MD</u> : Were the RPDs within control limits?	[]	[]	
+ dops			
11. Serial Dilution:			
• Was serial dilution (1:4) conducted when needed?	[]	[]	

Hexavalent Chromium

CYANIDE ANALYSIS CHECKLIST

Project Name: Ravenna LL2+3, June 2010

Laboratory: CT

Batch Number(s): _____

Sample Delivery Group: 79478

- | | <u>Yes</u> | <u>No</u> |
|--|-------------------------------------|-------------------------------------|
| 1. Holding Time: | | |
| • Were samples analyzed within holding time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Initial Calibration: | | |
| • Did the initial calibration consist of | | |
| One calibration standard and a blank? | <input type="checkbox"/> | <input type="checkbox"/> |
| Six calibration standards and a blank? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Was $R \geq 0.995$ | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. QCMDL: | | |
| • Was MDL Check performed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. QCMRL: | | |
| • Were QC/MRL run at the beginning of every daily sequence?? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| • Was the QC/MRL between 70-130% R? | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Initial Calibration Verification (ICV): | | |
| • Is the mid level (2 nd source) recovery within 80-120%? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Initial calibration Blank (ICP): | | |
| • Were analytes in the blank $\leq 1/2$ MRL? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

N/A @ III
↓

- | | <u>Yes</u> | <u>No</u> |
|---|-------------------------------------|--------------------------|
| 7. Continuing calibration Blank (CCB): | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Was CCB conducted every 10 samples? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Was CCB conducted at end of the analytical sequence? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Were analytes $\leq 1/2$ MRL? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8. Continuing Calibration Verification (CCV): | | |
| • Was CCV conducted every 10 samples? <i>N/A</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Was CCV conducted at end of the analytical sequence? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • Was the %R between 80-120? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 9. Sample Analysis: | | |
| • Were samples with levels higher than the calibration range (E), diluted and re-analyzed? <i>N/A</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Sample Quality Control: | | |
| • <u>Method Blanks</u> : Were target analytes $\leq 1/2$ MRL? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • <u>LCS</u> : Were the percent recoveries for LCS within the limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • <u>MS</u> : Were the percent recoveries within limits?
<i>LL355-294M-2009-QA</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| • <u>MD</u> : Were the RPDs within control limits?
<i>+ dup</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 13. Comments (attach additional sheets if necessary): | | |

Pat Meeks
Pat. Meeks

201
11/10/10

CYANIDE ANALYSIS CHECKLIST

Project Name: Ravenna LL2+3, June 2010

Laboratory: CT

Batch Number(s): _____

Sample Delivery Group: 79727

	<u>Yes</u>	<u>No</u>
1. Holding Time:		
• Were samples analyzed within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Initial Calibration:		
• Did the initial calibration consist of		
One calibration standard and a blank?	<input type="checkbox"/>	<input type="checkbox"/>
Six calibration standards and a blank?	<input type="checkbox"/>	<input type="checkbox"/>
• Was $R \geq 0.995$	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. QCMDL:		
• Was MDL Check performed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. QCMRL:		
• Were QC/MRL run at the beginning of every daily sequence??	<input type="checkbox"/>	<input checked="" type="checkbox"/>
• Was the QC/MRL between 70-130% R?	<input type="checkbox"/>	<input type="checkbox"/>
5. Initial Calibration Verification (ICV):		
• Is the mid level (2 nd source) recovery within 80-120%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Initial calibration Blank (ICP):		
• Were analytes in the blank $\leq 1/2$ MRL?	<input type="checkbox"/>	<input type="checkbox"/>

N/A @ III
↓

	<u>Yes</u>	<u>No</u>
7. Continuing calibration Blank (CCB):	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was CCB conducted every 10 samples? <i>N/A</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was CCB conducted at end of the analytical sequence?	<input type="checkbox"/>	<input type="checkbox"/>
• Were analytes $\leq 1/2$ MRL?	<input type="checkbox"/>	<input type="checkbox"/>
8. Continuing Calibration Verification (CCV):		
• Was CCV conducted every 10 samples? <i>N/A</i>	<input type="checkbox"/>	<input type="checkbox"/>
• Was CCV conducted at end of the analytical sequence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Was the %R between 80-120?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Sample Analysis:		
• Were samples with levels higher than the calibration range (E), diluted and re-analyzed? <i>N/A</i>	<input type="checkbox"/>	<input type="checkbox"/>
12. Sample Quality Control:		
• <u>Method Blanks</u> : Were target analytes $\leq 1/2$ MRL?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• <u>LCS</u> : Were the percent recoveries for LCS within the limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• <u>MS</u> : Were the percent recoveries within limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• <u>MD</u> : Were the RPDs within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Comments (attach additional sheets if necessary):		

Patt Meeks
Patt Meeks

11/10/10

APPENDIX H
Waste Manifests

RAVENNA AAP - TRUCK LOG SOIL REMOVAL LL2, LL3

DATE	TRUCK NUMBER/PLATE	MANIFEST NUMBER	SIGNATURE	WEIGHT (tons)
7/19	Acme- # 062	0001	B. Collier	18.60
7/19	Acme # 934	0002	D. Higgins	23.64
7/19	Acme # 973	0003	J. [unclear]	16.20
7/19	Acme # 981	0004	[unclear]	26.26
7/19	Acme # 062	0005	B. Collier	26.36
7/19	Acme # 934	0006	D. Higgins	21.19
7/19	Acme # 973	0007	J. [unclear]	23.52
7/19	Acme # 003	0008	Steve Mall	26.17
7/19	Acme # 072	0009	[unclear]	26.63
7/19	Acme # 076	0010	Forbes	24.70
7/19	Acme # 982	0011	[unclear]	24.60
7/19	Acme # 981	0012	[unclear]	27.16
7/19	Acme # 062	0013	B. Collier	24.87
7/19	Acme # 934	0014	D. Higgins	20.49
7/19	Acme # 973	0015	J. [unclear]	25.78
7/19	Acme # 003	0016	Steve Mall	24.07

ENVIRONMENTAL WASTE SOLUTIONS LLC

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0001

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Acme Company (with handwritten 'D62') U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: [Signature] Month: 7 Day: 19 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: BOB CALLAHAN Signature: [Signature] Month: 7 Day: 19 Year: 10

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

17. Discrepancy:

17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator): Manifest Reference Number: U.S. EPA ID Number:

Facility's Phone: 17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Tracy Wheeler Signature: [Signature] Month: 7 Day: 19 Year: 10
 Deputy Weighmaster

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183667
Date: 7/19/2010
Time: 09:37:11 - 09:55:56

Truck: ACME062
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Gross: 70940 lb In Scale 1
Tare: 33740 lb Out Scale 1
Net: 37200 lb

Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0001

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
QH067/Portage	100% of ISW/INDUSTRIAL SOLID	18.60	ton	\$11.75/Ton	\$218.55
				Total Taxes:	\$332.01
				Total Amount:	\$550.56

Driver:

B. C. T. 9

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OHS210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0002

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company **934**

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road.
Alliance, OH 44601

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DDT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson**

Signature: *Mark Patterson*

Month Day Year: **7 | 19 | 10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

Transporter Signature (for exports only): _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **D. Huggins**

Signature: *D. Huggins*

Month Day Year: **7 | 19 | 10**

Transporter 2 Printed/Typed Name: _____

Signature: _____

Month Day Year: _____

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ U.S. EPA ID Number _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____

18. Designated Facility (or Generator) **Tracy Wheeler** materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: **Deputy Weighmaster**

Signature: *Tracy Wheeler*

Month Day Year: **7 | 19 | 10**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183668
Date: 7/19/2010
Time: 09:40:07 - 10:00:50

Truck: ACME934
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: Dump Truck

Scale
Gross: 77940 lb In Scale 1
Tare: 30660 lb Out Scale 1
Net: 47280 lb

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi
Manifest: 0002
Comments:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.64 ton	\$11.75/Ton	\$277.77
			Total Taxes:	\$421.97
			Total Amount:	\$699.74

Driver: J. Huggins Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number QH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0003

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Acme Company (with handwritten '973') U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	Description
	No.	Type			
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 19 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Ray Craig Signature: Ray Craig Month: 7 Day: 19 Year: 10
 Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Tracy Wheeler (with handwritten 'Deputy Weighmaster')
 Printed/Typed Name: Tracy Wheeler Signature: Tracy Wheeler Month: 7 Day: 19 Year: 10

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183669
Date: 7/19/2010
Time: 09:42:23 - 10:02:37

Truck: ACME973
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: Dump Truck

Scale
Gross: 62340 lb In Scale 1
Tare: 29940 lb Out Scale 1
Net: 32400 lb

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi

Manifest: 0003

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	16.20	ton	\$11.75/Ton	\$190.35
				Total Taxes:	\$289.17
				Total Amount:	\$479.52

Driver: 

Deputy Weighmaster: Tracy Wheeler

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0004

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone:
330 358-7312

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone:
330-823-6220

9. Waste Shipping Name and Description

10. Containers

11. Total
Quantity

12. Unit
Wt./Vol.

1. **Non RCRA, Non DOT Regulated Soil**

No. **01**

Type **DT**

**EST.
22**

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Operator's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 19 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Bill McElroy

Signature
Bill McElroy

Month Day Year
7 19 10

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Tracy Wheeler

Signature
Tracy Wheeler

Month Day Year
7 19 10

Deputy Weighmaster

CENTRAL WASTE INC.
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183686
Date: 7/19/2010
Time: 10:45:50 - 11:06:34

Truck: ACME981
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Gross: 71940 lb In Scale 1
Tare: 31420 lb Out Scale 1
Net: 40520 lb

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0004

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH007/Portage	100% of ISW/INDUSTRIAL SOLID	20.26	ton	\$11.75/Ton	\$238.06
				Total Taxes:	\$361.65
				Total Amount:	\$599.71

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0005

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

1. **Non RCRA, Non DOT Regulated Soil**

No. **01**

Type **DT**

**EST.
22**

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month **7** Day **19** Year **10**

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
BOB CALLAN

Signature
Bob Callan

Month **7** Day **18** Year **10**

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
**Tracy Wheeler
Deputy Weighmaster**

Signature
Tracy Wheeler

Month **7** Day **19** Year **10**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183696
Date: 7/19/2010
Time: 11:36:51 - 11:37:31

Gross: 86520 lb In Scale
Tare: 33740 lb In Scale 1
Net: 52780 lb P.T.

Truck: ACME062
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi
Manifest: 0005

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	26.39	ton	\$11.75/Ton	\$310.08
				Total Taxes:	\$471.06
				Total Amount:	\$781.14

Driver:

Bol CT9

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of **1**
3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0006

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: **330 358-7312**
Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The Acme Company
U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
U.S. EPA ID Number
State ID 05008
Facility's Phone:
330-823-6220

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Officer's Printed/Typed Name: **Mark Patterson**
Signature: *Mark Patterson*
Month Day Year: **7 15 10**

15. International Shipments
 Import to U.S. Export from U.S. Port of entry/exit: _____
Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter Signature (for exports only): _____
Transporter 1 Printed/Typed Name: **D. Huggins**
Signature: *D. Huggins*
Month Day Year: **7 19 10**
Transporter 2 Printed/Typed Name: **T B**
Signature: _____
Month Day Year: _____

17. Discrepancy
17a. Discrepancy Indication Space
 Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator)
Facility's Phone: _____
17c. Signature of Alternate Facility (or Generator)
Month Day Year: _____

18. Designated Facility
Printed/Typed Name: **Tracy Wheeler**
Signature: *Tracy Wheeler*
Deputy Warehouse
Month Day Year: **7 19 10**

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 103699
Date: 7/19/2010
Time: 11:48:37 - 11:48:42

Truck: ACME934
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: Dump Truck

Gross: 73040 lb In Scale
Tare: 30660 lb P.T.
Net: 42380 lb

Profile: 10-EWS-01/Contaminated Soil

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0006

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.19	ton	\$11.75/Ton	\$248.98
				Total Taxes:	\$378.24
				Total Amount:	\$627.22

Driver: D. Hargrave T-18 Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0071

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

U.S. EPA ID Number

6. Transporter 1 Company Name

The Acme Company

N/A

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

1. **Non RCRA, Non DOT Regulated Soil**

No. **01**

Type **DT**

**EST.
22**

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month **7** Day **19** Year **10**

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
RAY CRAIG

Signature
Ray Craig

Month **7** Day **19** Year **10**

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator (Printed/Typed Name) **Tracy Wheeler** covered by the manifest except as noted in Item 17a

Printed/Typed Name **Deputy Weighmaster**

Signature
Tracy Wheeler

Month **7** Day **19** Year **10**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 103702
Date: 7/19/2010
Time: 11:54:36 - 11:55:15

Truck: ACME973
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: Dump Truck

Gross: 76960 lb In Scale
Tare: 29920 lb Scale 1
Net: 47040 lb P.T.

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soil

manifest # 007

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.52	ton	\$11.75/Ton	\$276.36
				Total Taxes:	\$419.83
				Total Amount:	\$696.19

Driver: 

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
007

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
[Handwritten Signature]

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

Facility's Phone: **330-823-6220**

State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson**

Signature: *[Signature]*

Month Day Year: **7 19 10**

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit: _____

Transporter Signature (for exports only): _____

Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **RON READING**

Signature: *[Signature]*

Month Day Year: **7 19 10**

Transporter 2 Printed/Typed Name: _____

Signature: _____

Month Day Year: _____

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator)

Month Day Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: _____

Signature: _____

Month Day Year: _____

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183710
Date: 7/19/2010
Time: 12:11:46 - 12:32:33

Scale
Gross: 86980 lb In Scale 1
Tare: 33720 lb Out Scale 1
Net: 53260 lb

Truck: ACME72
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Soil
Generator: RVNA ARMY/Ravenna Army Am

Comment: *manifest # 09*

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	26.63	ton	\$11.75/Ton	\$312.90
				Total Taxes:	\$475.35
				Total Amount:	\$788.25

Driver: *Rm [Signature]* Deputy Weighmasters: Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0010

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number
State ID 05008

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description

10. Containers
No. Type

11. Total Quantity

12. Unit Wt./Vol.

1. **Non RCRA, Non DOT Regulated Soil**

01 DT

EST. 22 T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Operator's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 18 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Forbes

Signature
Forbes

Month Day Year
7 19 10

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Tracy Wheeler
Deputy Warehousemaster

Signature
Tracy Wheeler

Month Day Year
7 19 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183713
Date: 7/19/2010
Time: 12:18:11 - 12:41:21

Truck: ACME76
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Gross: 82640 lb In Scale 1
Tare: 33240 lb Out Scale 1
Net: 49400 lb

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Comment: *manifest # 10*

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.70	ton	\$11.75/Ton	\$290.23
				Total Taxes:	\$440.90
				Total Amount:	\$731.13

Driver:

Forbes

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0011
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297			Generator's Site Address (if different than mailing address) LL2, LL3 Sites		
Generator's Phone: 330 358-7312			U.S. EPA ID Number N/A		
6. Transporter 1 Company Name The Acme Company			U.S. EPA ID Number 981		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601			U.S. EPA ID Number State ID 05008		
Facility's Phone: 330-823-6220					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1.	Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Mark Patterson				Signature <i>Mark Patterson</i>	Month Day Year 7 19 10
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Bill Mett				Signature <i>Bill Mett</i>	Month Day Year 7 19 10
Transporter 2 Printed/Typed Name				Signature	Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator)				Manifest Reference Number: _____ U.S. EPA ID Number _____	
Facility's Phone: _____				Month Day Year	
17c. Signature of Alternate Facility (or Generator)					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Tracy Wheeler Deputy Weighmaster				Signature <i>Tracy Wheeler</i>	Month Day Year 7 19 10

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183717
Date: 7/19/2010
Time: 12:52:21 - 12:52:26

Truck: ACME981
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Gross: 85740 lb In Scale 1
Tare: 31420 lb P.T.
Net: 54320 lb

Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Comment:

Manifest # 11

Manifest: 11

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	27.16	ton	\$11.75/Ton	\$319.13
				Total Taxes:	\$484.81
				Total Amount:	\$803.94

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OHS210020736

2. Page 1 of **1**

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0012

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

U.S. EPA ID Number

6. Transporter 1 Company Name

The Acme Company

982

N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID 05008

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1.

Non RCRA, Non DOT Regulated Soil

01

DT

**EST.
22**

T

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature

Mark Patterson

Month Day Year
7 19 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Bob Lewis

Signature

Bob Lewis

Month Day Year
7 15 10

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

Tracy Wheeler

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Deputy Weighmaster

Signature

Tracy Wheeler

Month Day Year
7 19 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183719
Date: 7/19/2010
Time: 12:36:48 - 13:00:31

Truck: ACME982
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: coal bucket/ dump tr

Scale
Gross: 80060 lb In Scale 1
Tare: 30860 lb Out Scale 1
Net: 49200 lb

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi

Manifest: 12

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit:	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.60	ton	\$11.75/Ton	\$289.05
				Total Taxes:	\$439.11
				Total Amount:	\$728.16

Driver: 

Deputy Weighmaster: _____

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of **1**
3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0013

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: **330 358-7312**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The Acme Company
U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: **330-823-6220**

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt/Vol.	13. Special Handling Instructions and Additional Information
	No.	Type			
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Officer's Printed/Typed Name: **Mark Patterson**
Signature: *Mark Patterson*
Month: **7** Day: **19** Year: **10**

15. International Shipments
 Import to U.S. Export from U.S.
Port of entry/exit: _____
Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter Signature (for exports only): _____
Transporter 1 Printed/Typed Name: **BOB CALLAHAN**
Signature: *Bob Callahan*
Month: **7** Day: **19** Year: **10**
Transporter 2 Printed/Typed Name: _____
Signature: _____
Month: _____ Day: _____ Year: _____

17. Discrepancy
17a. Discrepancy Indication Space
 Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator)
Facility's Name: _____ U.S. EPA ID Number: _____
Facility's Phone: _____
17c. Signature of Alternate Facility (or Generator)
Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: **Tracy Wheeler**
Signature: *Tracy Wheeler*
Month: **7** Day: **19** Year: **10**

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183725
Date: 7/19/2010
Time: 13:32:49 - 13:33:20

Truck: ACME062
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Gross: 82760 lb In Scale
Tare: 33740 lb Scale 1
Net: 49020 lb P.T.

Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 13

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.51	ton	\$11.75/Ton	\$287.99
				Total Taxes:	\$437.51
				Total Amount:	\$725.50

Driver:

Cal T G.

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0014
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297			Generator's Site Address (if different than mailing address) LL2, LL3 Sites		
Generator's Phone: 330 358-7312			U.S. EPA ID Number N/A		
6. Transporter 1 Company Name The Acme Company			U.S. EPA ID Number N/A		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601			U.S. EPA ID Number State ID 05008		
Facility's Phone: 330-823-6220					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1.	Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Mark Patterson				Signature <i>Mark Patterson</i>	
				Month Day Year 7 19 10	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name D HUGGINS T18		Signature <i>D Huggins</i>		Month Day Year 7 19 10	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator)				Manifest Reference Number: _____ U.S. EPA ID Number _____	
Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator)				Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Tracy Wheeler				Signature <i>Tracy Wheeler</i>	
				Month Day Year 7 19 10	

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183728
Date: 7/19/2010
Time: 13:41:16 - 13:42:02

Truck: ACME934
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: Dump Truck

Gross: 71640 lb In Scale
Tares: 30660 lb Scale 1
Net: 40980 lb P.T.

Generator: #RUNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi
Manifest: 14
Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	20.49	ton	\$11.75/Ton	\$240.76
				Total Taxes:	\$365.75
				Total Amount:	\$606.51

Driver: 

Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0015

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: 330 358-7312

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601

U.S. EPA ID Number
State ID 05008

Facility's Phone: 330-823-6220

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson**
Signature: *Mark Patterson*
Month: 7, Day: 19, Year: 00

15. International Shipments
 Import to U.S. Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: **Ray Craig**
Signature: *Ray Craig*
Month: 7, Day: 19, Year: 00
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

17. Discrepancy
17a. Discrepancy Indication Space
 Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number:
U.S. EPA ID Number:

17b. Alternate Facility (or Generator)
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator
Printed/Typed Name: **Deputy Weighmaster**
Signature: *[Signature]*
Month: Day: Year: 7/19/00

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183729
Date: 7/19/2010
Time: 13:47:05 - 13:47:10

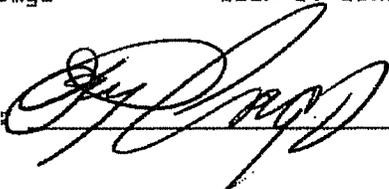
Truck: ACME973
Customer: 0231/Environmental Waste
Carrier: ACME/ACME Trucking Truck Type: Dump Truck

Gross: 81480 lb In Scale
Tare: 29920 lb P.T.
Net: 51560 lb Scale 1

Profile: 10-EWS-01/Contaminated Soi
Generator: RVNA ARMY/Ravenna Army Am Manifest: 15
Comment:

Origins	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	25.70	ton	\$11.75/Ton	\$302.92
				Total Taxes:	\$460.18
				Total Amount:	\$763.10

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of 1
3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0016

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone:
330 358-7312

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone:
330-823-6220

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **19** Year: **00**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter Signature (for exports only): _____
Transporter 1 Printed/Typed Name: **Steve Marshall** Signature: *Steve Marshall* Month: **7** Day: **19** Year: **00**
Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: **Tracy Wheeler** Signature: *Tracy Wheeler* Month: **7** Day: **19** Year: **00**

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183742
Date: 7/19/2010
Time: 14:07:11 - 14:25:07

Truck: ACME003
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Gross: 80880 lb In Scale 1
Tare: 32740 lb Out Scale 1
Net: 48140 lb

Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0016

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.07	ton	\$11.75/Ton	\$282.82
				Total Taxes:	\$429.65
				Total Amount:	\$712.47

Driver:

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0017
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297			Generator's Site Address (if different than mailing address) LL2, LL3 Sites		
Generator's Phone: 330 358-7312			U.S. EPA ID Number N/A		
6. Transporter 1 Company Name The Acme Company			U.S. EPA ID Number		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601			U.S. EPA ID Number State ID 05008		
Facility's Phone: 330-823-6220					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1.	Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Owner's Printed/Typed Name Mark Patterson			Signature <i>Mark Patterson</i>		Month Day Year 7 18 10
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name RON REIDING			Signature <i>Ron Reiding</i>		Month Day Year 7 19 10
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____ U.S. EPA ID Number _____					
17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____					
Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____					
18. Designated Facility Owner or Operator: Certification or receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name Tracy Wheeler Deputy Weighmaster			Signature <i>Tracy Wheeler</i>		Month Day Year 7 19 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183744
Date: 7/19/2010
Time: 14:18:32 - 14:34:18

Truck: ACME072
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Gross: 90240 lb In Scale 1
Tare: 33680 lb Out Scale 1
Net: 56560 lb

Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am

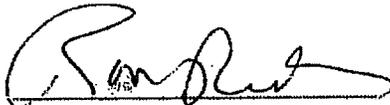
Profile: 10-EWS-01/Contaminated Soi

Manifest: 0017

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	28.28	ton	\$11.75/Ton	\$332.29
				Total Taxes:	\$504.80
				Total Amount:	\$837.09

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of **1**
3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0018

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**
Generator's Site Address (if different than mailing address)
LL2, LL3 Sites
Generator's Phone:
330 358-7312

6. Transporter 1 Company Name
The Acme Company
U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
(Signature)
U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**
U.S. EPA ID Number
State ID 05008
Facility's Phone:
330-823-6220

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit W./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson
Signature
(Signature)
Month Day Year
7 19 10

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____
Transporter Signature (for exports only): _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name
Forbes
Signature
(Signature)
Month Day Year
7 19 10
Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number: _____ U.S. EPA ID Number _____

17b. Alternate Facility (or Generator)
Facility's Phone: _____ Month Day Year _____

17c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____

18. Designated Facility Owner or Operator
Tracy Wheeler
Printed/Typed Name
Deputy Weighmaster
Signature
(Signature)
Month Day Year
7 19 10

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183747
Date: 7/19/2010
Time: 14:21:45 - 14:42:12

Truck: ACME076
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Gross: 05640 lb In Scale 1
Tare: 33200 lb Out Scale 1
Net: 52440 lb

Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0018

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	26.22	ton	\$11.75/Ton	\$308.09
				Total Taxes:	\$468.03
				Total Amount:	\$776.12

Driver: _____

Forbes

Deputy Weighmaster: _____

Tracy Wheeler

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0019

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Phone: **330 358-7312**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

Facility's Phone: **330-823-6220**

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **19** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: *Art Lewis* Signature: *Art Lewis* Month: **7** Day: **15** Year: **10**

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator) Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility of Receipt of Materials Covered by the manifest except as noted in Item 17a
Printed/Typed Name: **Tracy Wheeler** Deputy Weighmaster Signature: *Tracy Wheeler* Month: **7** Day: **19** Year: **10**

DESIGNATED FACILITY TO GENERATOR

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183751
Date: 7/19/2010
Time: 14:47:30 - 14:47:35

Truck: ACME982
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Gross: 82000 lb In Scale 1
Tare: 30840 lb P.T.
Net: 51160 lb

Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0019

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	25.50	ton	\$11.75/Ton	\$300.57
				Total Taxes:	\$456.61
				Total Amount:	\$757.18

Drivers: _____

Deputy Weighmaster: _____

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0026

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: **330 358-7312**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The Acme Company
U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: **330-823-6220**

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson
Signature
Mark Patterson
Month Day Year
7 | 19 | 10

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter Signature (for exports only): _____
Transporter 1 Printed/Typed Name
Bill Wells
Signature
Bill Wells
Month Day Year
7 | 19 | 10
Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____
Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____

18. Designated Facility Owner or Operator's Acknowledgment of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Tracy Wheeler
Signature
Tracy Wheeler
Month Day Year
7 | 19 | 10

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183755
Date: 7/19/2010
Time: 14:54:11 - 14:54:16

Scale

Gross: 83940 lb In Scale 1
Tare: 31420 lb P.T.
Net: 52520 lb

Truck: ACME981
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

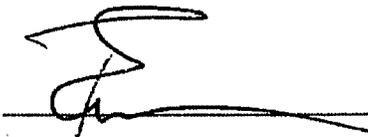
Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0020

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	26.26	ton	\$11.75/Ton	\$308.56
				Total Taxes:	\$468.75
				Total Amount:	\$777.31

Drivers:



Deputy Weighmaster:

Tracy Wheeler

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0021

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number
State ID 05008

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit WL/Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Operator's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **19** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: **BOB CALLAHAN** Signature: *Bob Callahan* Month: **2** Day: **19** Year: **10**
Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

Tracy Wheeler

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: **Deputy Weighmaster** Signature: *[Signature]* Month: **7** Day: **19** Year: **10**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183759
Date: 7/19/2010
Time: 15:20:43 - 15:20:49

Scale
In Scale 1
P.T.

Gross: 83240 lb
Tare: 33740 lb
Net: 49500 lb

Truck: ACME062
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0021

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.75	ton	\$11.75/Ton	\$290.81
				Total Taxes:	\$441.79
				Total Amount:	\$732.60

Driver:

Bob E T9

Deputy Weighmaster:

Tracy Wheeler

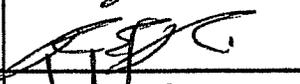
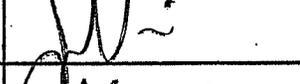
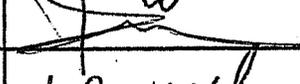
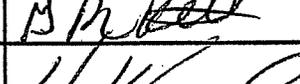
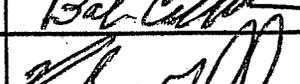
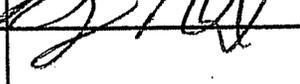
RAVENNA AAP - TRUCK LOG SOIL REMOVAL LL2, LL3

DATE	TRUCK NUMBER/PLATE	MANIFEST NUMBER	SIGNATURE	WEIGHT (tons)
7/20	Acme# 062	0022	B Collier	24.26
7/20	Acme# 934	0023	D Higgins	23.68
7/20	Acme# 062	0024	B Collier	23.17
7/20	Acme# 934	0025	D Higgins	22.57
7/20	Acme# 031	0026	M P. West	22.86
7/20	Acme# 981	0027	H. Ward	23.92
7/20	Acme# 951	0028	[Signature]	23.07
7/20	Acme# 062	0029	B Collier	22.53
7/20	Patrick# 225	0030	[Signature]	22.14
7/20	Patrick# 223	0031	[Signature]	21.64
7/20	Patrick# 234	0032	[Signature]	19.95
7/20	Patrick# 238	0033	[Signature]	19.26
7/20	Acme# 934	0034	D Higgins	22.43
7/20	Acme# 031	0035	M P. West	25.58
7/20	Acme# 951	0036	[Signature]	32.39
7/20	Acme# 062	0037	B Collier	22.01

ENVIRONMENTAL WASTE SOLUTIONS LLC

RAVENNA AAP - TRUCK LOG SOIL REMOVAL LL2, LL3

DATE	TRUCK NUMBER/PLATE	MANIFEST NUMBER	SIGNATURE	WEIGHT (tons)
------	-----------------------	--------------------	-----------	------------------

7/20	Petrol # 225	0038		23.78
7/20	Petrol # 223	0039		20.97
7/20	Petrol # 234	0040		19.96
7/20	Petrol # 238	0041		19.78
7/20	Acme # 934	0042		22.06
7/20	Acme # 957	0043		30.61
7/20	Acme # 031	0044		28.35
7/20	Acme # 981	0045		26.76
7/20	Acme # 062	0046		24.42
7/20	Petrol # 228	0047		23.32
				TOTAL

611-47

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0022

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number

N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **20** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: **BOB CALLAHAN** Signature: *Bob Callahan* Month: **7** Day: **20** Year: **10**
Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Signature: *David L. ...* Month: **7** Day: **20** Year: **10**

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 1A3789
Date: 7/20/2010
Time: 07:55:50 - 07:56:15

Truck: ACMED62
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Gross: 82260 lb In Scale 1
Tare: 33740 lb P.T.
Net: 48520 lb

Truck Type: coal bucket/ dump tr

Profile: 10-ENS-01/Contaminated Sol

Generator: RVHQ ARMY/Ravenna Army Am

Manifest: 22

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.26	ton	\$11.75/Ton	\$285.06

Total Taxes: \$433.05
Total Amount: \$718.11

Driver:



Deputy Weighmaster:

Marcie Carpenter

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0023

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Site Address (if different than mailing address)
LL2, LL3 Sites
Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company
U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
U.S. EPA ID Number
State ID 05008
Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson
Signature
Mark Patterson
Month Day Year
7 20 10

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name
D HUGGINS T18
Signature
D Huggins
Month Day Year
7 20 10
Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number: _____

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Marcel Kulevsk
Month Day Year
7 20 10

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 103793
Date: 7/20/2010
Time: 08:17:25 - 08:17:38

Truck: ACHIE934
Customer: 0231/Environmental Waste
Carrier: ACHIE/ACHIE Trucking

Scale
Gross: 70020 lb In Scale 1
Tare: 30650 lb P.T.
Net: 47350 lb

Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Sol

Generator: RVNH ARMY/Ravenna Army Am

Manifest: 23

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
04067/Portage	100% of ISM/INDUSTRIAL SOLID	23.68 ton	\$11.75/Ton	\$278.24
			Total Taxes:	\$422.69
			Total Amount:	\$700.93

Drivers:



Deputy Weighmaster:

Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0024

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601

U.S. EPA ID Number
State ID 05008

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator/Officer's Printed/Typed Name: **Mark Patterson**
Signature: *Mark Patterson*
Month: **7** Day: **20** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **BOB CALLAHAN**
Signature: *Bob Callahan*
Month: **7** Day: **20** Year: **10**
Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: _____ Signature: *Marie Schubert* Month: **7** Day: **20** Year: **10**

DESIGNATED FACILITY TO GENERATOR

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183811
Date: 7/20/2010
Time: 09:46:24 - 09:46:35

Scale
Scale 1
P.T.

Gross: 80080 lb
Tare: 33740 lb
Net: 46340 lb

Truck: ACME062
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi

Comment:

manifest # 24

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.17	ton	\$11.75/Ton	\$272.25
				Total Taxes:	\$413.59
				Total Amount:	\$685.84

Driver:

Alc 79

Deputy Weighmaster:

Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0025
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297			Generator's Site Address (if different than mailing address) LL2, LL3 Sites		
Generator's Phone: 330 358-7312					
6. Transporter 1 Company Name The Acme Company # 934				U.S. EPA ID Number N/A	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601				U.S. EPA ID Number State ID 05008	
Facility's Phone: 330-823-6220					
9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. Non-RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Mark Patterson			Signature <i>Mark Patterson</i>		Month Day Year 7 20 10
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Transporter Signature (for exports only): Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name D HUGGINS T 18			Signature <i>D Huggins</i>		Month Day Year 7 20 10
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator)				Manifest Reference Number: U.S. EPA ID Number	
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)				Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name			Signature <i>Mauro Heibert</i>		Month Day Year 7 20 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Truck: ACME934
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Truck Type: Dump Truck

Ticket: 103817
Date: 7/20/2010
Time: 10:11:21 - 10:11:47

Gross: 75000 lb In Scale 1
Tare: 30500 lb P.T.
Net: 45140 lb

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 25

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
04067/Portage	100% of ISW/INDUSTRIAL SOLID	22.57	ton	\$11.75/Ton	\$265.20
				Total Taxes:	\$402.00
				Total Amount:	\$667.20

Driver:  T18

Deputy Weighmaster:

Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0026	
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297		Generator's Site Address (if different than mailing address) LL2, LL3 Sites			
Generator's Phone: 330 358-7312		U.S. EPA ID Number N/A			
6. Transporter 1 Company Name The Acme Company # 031		U.S. EPA ID Number N/A			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601		U.S. EPA ID Number State ID 05008			
Facility's Phone: 330-823-6220					
GENERATOR	9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
	1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
	2.				
	3.				
4.					
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Mark Patterson		Signature <i>Mark Patterson</i>		Month 7	Day 20
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit:		Year 10	
Transporter Signature (for exports only):		Date leaving U.S.:			
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Greg Plunkett		Signature <i>Greg Plunkett</i>		Month 7	Day 20
Transporter 2 Printed/Typed Name		Signature		Year 10	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)				U.S. EPA ID Number	
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)				Month	Day
Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name		Signature <i>Marcus Herbert</i>		Month 7	Day 20
				Year 10	

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183841
Date: 7/20/2010
Time: 10:45:57 - 11:07:52

Truck: ACME031
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: Dump Truck

Scale
Gross: 78100 lb In Scale 1
Tare: 32380 lb Out Scale 1
Net: 45720 lb

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soil

Manifest: 026

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	22.86	ton	\$11.75/Ton	\$268.61
				Total Taxes:	\$408.06
				Total Amount:	\$676.67

Driver:

Greg T-42

Deputy Weighmaster:

Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of **1**
3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0027

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**
Generator's Phone: **330 358-7312**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The Acme Company #981

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**
Facility's Phone: **330-823-6220**

U.S. EPA ID Number

State ID **05008**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

Mark Patterson

Signature

Mark Pat

Month Day Year
7 20 10

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Heath Ward

Signature

Heath Ward

Month Day Year
7 20 10

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number:

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Signature

Heath Ward

Month Day Year
7 20 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183081
Date: 7/20/2010
Time: 12:53:58 - 12:54:21

Truck: ACME981
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Gross: 79260 lb In Scale 1
Tare: 31420 lb P.T.
Net: 47840 lb

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 27

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.92	ton	\$11.75/Ton	\$281.06
				Total Taxes:	\$426.97
				Total Amount:	\$708.03

Driver:

Mark Ward T-36

Deputy Weighmaster:

Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0028	
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297		Generator's Site Address (if different than mailing address) LL2, LL3 Sites			
Generator's Phone: 330 358-7312		U.S. EPA ID Number N/A			
6. Transporter 1 Company Name The Acme Company		U.S. EPA ID Number N/A			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601		U.S. EPA ID Number State ID 05008			
Facility's Phone: 330-823-6220					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non RCRA, Non DOT Regulated Soil		01	DT	EST. 22	T
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Mark Patterson		Signature <i>Mark Patterson</i>		Month 7	Day 20
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:			
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Bill Mellett		Signature <i>Bill Mellett</i>		Month 7	Day 20
Transporter 2 Printed/Typed Name		Signature		Month	Day
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)				U.S. EPA ID Number	
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)				Month	Day
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name		Signature <i>Marcus Harbert</i>		Month 7	Day 20

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Trucks: ACME351
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Profile: 10-EWS-01/Contaminated Sol
Gross: 80060 1b In Manual Wt
Tare: 33920 1b Out Scale 1
Net: 46140 1b

Generator: RVNA ARMY/Ravenna Army Am

Comment:

Material # 28

Origin

Materials & Services

Quantity Unit Rate /Unit

Amount

OH067/Portage

100% of ISW/INDUSTRIAL SOLID 23.07 ton

\$11.75/Ton

\$271.07

Total Taxes:

\$411.80

Total Amount:

\$682.87

Driver:



Deputy Weighmaster:

Marcie Carpenter

Ticket: 103843
Date: 7/20/2010
Time: 10:48:31 - 11:13:40

Scale

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0029

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Phone:
330 358-7312

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

Facility's Phone:
330-823-6220

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description

10. Containers
No. Type

11. Total Quantity

12. Unit Wt./Vol.

1. **Non RCRA, Non DOT Regulated Soil**

01 DT

EST. 22

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 20 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:
Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
BOB CALLAN

Signature
Bob Callan

Month Day Year
7 20 10

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Signature
Marcus Hurley

Month Day Year
7 20 10

DESIGNATED FACILITY TO GENERATOR

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183856
Date: 7/20/2010
Time: 11:39:55 - 11:40:28

Truck: ACME062
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Scale 1
P.T.
Gross: 78800 lb
Tare: 33740 lb
Net: 45060 lb

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 29

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	22.53	ton	\$11.75/Ton	\$264.73
				Total Taxes:	\$402.17
				Total Amount:	\$666.90

Driver:

BLET9

Deputy Weighmaster:

Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0030

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
~~The Acme Company~~

U.S. EPA ID Number
~~NYA~~

7. Transporter 2 Company Name
Patrick Inc. 225

U.S. EPA ID Number
N/A

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number
State ID 05008

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **20** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter Signature (for exports only): _____

Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: **7** Day: **20** Year: **10**

Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: _____ Signature: *Mark Zulant* Month: **7** Day: **20** Year: **10**

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183858
Date: 7/20/2010
Time: 11:45:07 - 11:59:48

Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Scale
Gross: 73660 lb In Scale 1
Tare: 29300 lb Out Scale 1
Net: 44280 lb

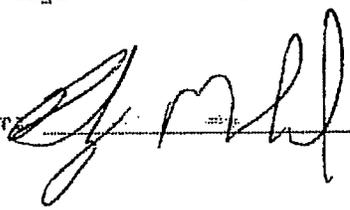
Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 30

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	22.14	ton	\$11.75/Ton	\$260.15
				Total Taxes:	\$395.20
				Total Amount:	\$655.35

Driver: 

Deputy Weighmaster: _____

Marcie Carpenter

31

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of 1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: 330 358-7312

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
~~The Lowe Company~~

U.S. EPA ID Number
~~N/A~~

7. Transporter 2 Company Name
Aotrick Inc. 223

U.S. EPA ID Number
N/A

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: 330-823-6220

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Special Handling Instructions and Additional Information
	No.	Type			
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offor's Printed/Typed Name: Mark Patterson
Signature: [Signature]
Month: 7 Day: 20 Year: 10

15. International Shipments: Import to U.S. Export from U.S.
Port of entry/exit: _____
Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: _____
Signature: _____
Month: _____ Day: _____ Year: _____
Transporter 2 Printed/Typed Name: KAVOZ RUSBI
Signature: [Signature]
Month: 7 Day: 20 Year: 10

17. Discrepancy
17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

17b. Alternate Facility (or Generator)
Facility's Phone: _____
U.S. EPA ID Number: _____

17c. Signature of Alternate Facility (or Generator)
Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: _____
Signature: [Signature]
Month: 7 Day: 20 Year: 10

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 103060
Date: 7/20/2010
Time: 11:51:01 - 12:06:47

Truck: PATRICK223
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick trucking
Truck Type: Dump Truck

Gross: 72340 lb In Scale 1
Tare: 29060 lb Out Scale 1
Net: 43280 lb

Generator: RVNA ARMY/Ravenma Army Am
Profile: 10-EMS-01/Contaminated Sol

Comments: *Manifest # 31*

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	400% of ISW/INDUSTRIAL SOLID	21.64	ton	\$11.75/Ton	\$254.27

Total Taxes: \$306.27
Total Amount: \$640.54

Driver: *King* Deputy Weighmaster: Marcia Carpenter

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of **1** 3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0032

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
~~The Home Company~~

U.S. EPA ID Number
~~NA~~

7. Transporter 2 Company Name
Patrick Inc 234

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601

U.S. EPA ID Number

Facility's Phone: **330-823-6220**

State ID **05008**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **20** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

Transporter Signature (for exports only): _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

Transporter 2 Printed/Typed Name: **Ron C Perich** Signature: *Ron C Perich* Month: **7** Day: **20** Year: **10**

17. Discrepancy Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: _____ Signature: *Marcel Perich* Month: _____ Day: _____ Year: _____

DESIGNATED FACILITY TO GENERATOR

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183868
Date: 7/20/2010
Time: 12:02:41 - 12:21:15

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Scale
Gross: 68660 lb In Scale 1
Tare: 28760 lb Out Scale 1
Net: 39900 lb

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 32

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	19.95	ton	\$11.75/Ton	\$234.41
				Total Taxes:	\$356.11
				Total Amount:	\$590.52

Driver:



Deputy Weighmaster:

Marcie Carpenter

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0033

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: 330 358-7312

6. Transporter 1 Company Name
~~The Acme Company~~

U.S. EPA ID Number
~~None~~

7. Transporter 2 Company Name
Patrick Inc. 238

U.S. EPA ID Number
N/A

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601

U.S. EPA ID Number
State ID 05008

Facility's Phone: 330-823-6220

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity

12. Unit
Wt./Vol.

1. Non RCRA, Non DOT Regulated Soil

01

DT

EST.
22 T

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patte

Month Day Year
7 20 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name
Jason Viverz

Signature

Month Day Year
07 20 10

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year
7 20 10

DESIGNATED FACILITY TO GENERATOR

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket#: 103073
Date: 7/20/2010
Time: 12:04:21 - 12:30:57

Truck: PATRICK230
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

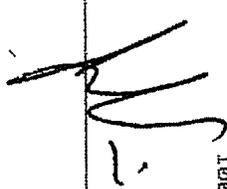
Gross: 66500 lb In Scale 1
Tare: 20060 lb Out Scale 1
Net: 30520 lb

Generator: RUNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soil

Manifest#: 33

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	19.26	ton	\$11.75/Ton	\$226.31
	Total Taxes:				\$343.00
	Total Amount:				\$570.11

Driver:  Deputy Weighmasters: Marcie Carpenter

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0034

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number
State ID 05008

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **20** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **DHUGGIN S T-18** Signature: *Duggins* Month: **7** Day: **20** Year: **10**

Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: **7** Day: **20** Year: **10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator) Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: _____ Signature: *[Signature]* Month: **7** Day: **20** Year: **10**

DESIGNATED FACILITY TO GENERATOR

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 103869
Date: 7/20/2010
Time: 12:23:49 - 12:24:00

Truck: ACME934
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: Dump Truck

Gross: 75520 lb In Scale
Tare: 30660 lb P.T.
Net: 44860 lb

Profile: 10-EWS-01/Contaminated Soil
Generator: RVNA ARMY/Ravenna Army Am
Manifest: 34
Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OM067/Portage	100% of ISW/INDUSTRIAL SOLID	22.43	ton	\$11.75/Ton	\$263.55
				Total Taxes:	\$400.38
				Total Amount:	\$663.93

Driver: *D. Higgins T18*

Deputy Weighmaster: Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0035

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number
State ID 05008

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DDT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **20** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: **Greg Runners** Signature: *Greg Runners* Month: **7** Day: **20** Year: **10**
Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number: _____

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: _____ Signature: *Mark Patterson* Month: **7** Day: **20** Year: **10**

DESIGNATED FACILITY TO GENERATOR

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183888
Date: 7/20/2010
Time: 12:52:02 - 12:52:10

Truck: ACHE031
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Gross: 63560 lb In Scale 1
Tare: 32400 lb P.T.
Net: 51160 lb

Truck Type: Dump Truck

Generator: ^{4th}RUHA ARMY/Ravenna Army Am
Profile: 10-EMS-01/Contaminated Sol
Manifest: 35

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
DH067/Portage	100% of ISM/INDUSTRIAL SOLID	25.58 ton	\$11.75/Ton	\$300.57
	Total Taxes:			\$456.61
	Total Amount:			\$757.18

Driver: Greg T-42 Deputy Highmaster:
Marcie Carpenter

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0036

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity

12. Unit
Wt./Vol.

1. **Non RCRA, Non DOT Regulated Soil**

01

DT

**EST.
22**

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 20 10

15. International Shipments Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Bill Welbitt

Signature
Bill Welbitt

Month Day Year
7 20 10

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature
Maicie Sulech

Month Day Year
7 20 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183879
Date: 7/20/2010
Time: 12:47:55 - 12:48:34

Truck: ACME951
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: coal bucket/ dump tr

Gross: 98740 lb In Scale
Tare: 33960 lb Scale 1
Net: 64780 lb P.T.

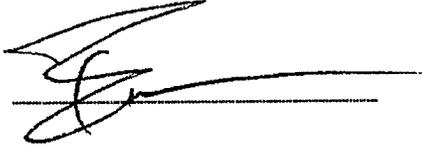
Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Sol

Manifest: 36

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
CH067/Portage	100% of ISW/INDUSTRIAL SOLID	32.39 ton	\$11.75/Ton	\$380.58
			Total Taxes:	\$578.16
			Total Amount:	\$958.74

Driver: 

Deputy Weighmaster: _____

Marcie Carpenter

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OHS210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0037

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator/Officer's Printed/Typed Name: **Mark Patterson**

Signature: *Mark Patterson*

Month Day Year: **7 20 10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter Signature (for exports only): _____

Transporter 1 Printed/Typed Name: **BOB CALLAHAN**

Signature: *Bob Callahan*

Month Day Year: **7 20 10**

Transporter 2 Printed/Typed Name: _____

Signature: _____

Month Day Year: _____

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator)

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator)

Month Day Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: _____

Signature: *David Stewart*

Month Day Year: **7 20 10**

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183804
Date: 7/20/2010
Time: 13:19:16 - 13:19:38

Truck: ACME062
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Gross: 77760 lb In Scale 1
Tare: 33740 lb P.T.
Net: 44020 lb

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 37

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
CH067/Portage	100% of ISW/INDUSTRIAL SOLID	22.01	ton	\$11.75/Ton	\$258.62
				Total Taxes:	\$392.89
				Total Amount:	\$651.51

Driver:

Bl 79

Deputy Weighmaster:

Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0038

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
~~The Acme Company~~

U.S. EPA ID Number
~~N/A~~

7. Transporter 2 Company Name
Patrick Inc 205

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number
State ID 05008

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 20 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year
7 20 10

Transporter 2 Printed/Typed Name
Randy McFarland

Signature
Randy McFarland

Month Day Year
7 20 10

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: U.S. EPA ID Number

17b. Alternate Facility (or Generator) Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature
Heather

Month Day Year
7 20 10

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket#: 183886
Date: 7/20/2010
Time: 13:25:42 - 13:26:01

Truck#: PATRICK225
Customer#: 0231/Environmental Waste
Carrier#: ACME/Acme Trucking Truck Type: Dump Truck

Gross: 76960 lb In Scale
Tare: 29400 lb P.T.
Net: 47560 lb

Scale

Scale 1

P.T.

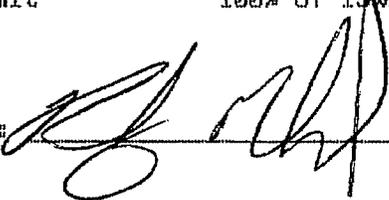
Profile: 10-EWS-01/Contaminated Soil

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 38

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH077/Summit	100% of ISM/INDUSTRIAL SOLID	23.78	ton	\$11.75/Ton	\$279.42
				Total Taxes:	\$315.09
				Total Amount:	\$594.51

Driver: 

Deputy Weighmaster: _____

Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0039

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
Patrick Inc. 223

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's Name/Signature: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **20** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____
Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

Transporter 2 Printed/Typed Name: **Kevin Rossel** Signature: *Kevin Rossel* Month: **7** Day: **20** Year: **10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: _____ Signature: *Harold Auland* Month: **7** Day: **20** Year: **10**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183891
Date: 7/20/2010
Time: 13:40:03 - 13:40:23

Truck: PATRICK223
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin/truck Type: coal bucket/ dump tr

Gross: 71000 lb In Scale 1
Tare: 29060 lb P.T.
Net: 41940 lb

Generator: RUNA ARMY/Ravenna Army Am
Profile: 10-EMS-01/Contaminated Sol

Manifest: 39

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	20.97	ton	\$11.75/Ton	\$246.40
	Total Taxes:				\$374.32
	Total Amount:				\$620.72

Driver:



Deputy Weighmaster:

Marcie Carpenter

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0040

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Asmc Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
Patrick Inc 234

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 20 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Signature
Month Day Year

Transporter 2 Printed/Typed Name
Ron E Perich

Signature
Ron E Perich

Month Day Year
7 20 10

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator; Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Marcel Helant

Month Day Year
7 20 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket#: 183095
Date: 7/20/2010
Time: 13:51:34 - 13:51:43

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: ACME/ACME Trucking

Scale
Gross: 68660 lb In Scale 1
Tare: 20740 lb P.T.
Net: 39920 lb

Generator: RYNA ARMY/Ravenna Army Am
Profile: 10-EMS-01/Contaminated Sol

Comments:

Manifest#: 40

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISM/INDUSTRIAL SOLID	19.96	ton	\$11.75/Ton	\$234.53
				Total Taxes:	\$356.29
				Total Amount:	\$590.82

Dryver: 

Deputy Weighmaster:
Marcie Carpenter

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0041

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name

~~The Acme Company~~

U.S. EPA ID Number

~~N/A~~

7. Transporter 2 Company Name

Patrick Inc. 238

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity

12. Unit
Wt./Vol.

1. **Non RCRA, Non DOT Regulated Soil**

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**EST.
22**

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13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patten

Month Day Year
7 20 10

15. International Shipments Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

JASON VINEZ

JV

7 20 10

17. Discrepancy

17a. Discrepancy Indication Space Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Marcus Helms **2010**

DESIGNATED FACILITY TO GENERATOR

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183906
Date: 7/20/2010
Time: 14:13:36 - 14:28:53

Truck: PATRICK238
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truck/truck Type: coal bucket/ dump ty
Gross: 67520 lb In Scale 1
Tare: 27960 lb Out Scale 1
Net: 39560 lb

Generators: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi

Comments:

Manifests: 41

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
0H067/Portage	100% of ISW/INDUSTRIAL SOLID	19.70	ton	\$11.75/Ton	\$232.42
	Total Taxes:				\$353.02
	Total Amount:				\$585.50

Driver:



Deputy Weighmaster:

Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of **1**

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0042

5. Generator's Name and Mailing Address
Generator's Site Address (if different than mailing address)

Ravenna Army Ammunition Plant **LL2, LL3 Sites**
8451 State Route 5 Ravenna, OH 44266-9297

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name **The Acme Company** **934** U.S. EPA ID Number **N/A**

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address U.S. EPA ID Number

Central Waste Inc. U.S. EPA ID Number
12003 Oyster Road
Alliance, OH 44601 **State ID 05008**
Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

1.

Non RCRA, Non DOT Regulated Soil

01

DT

EST. 22

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2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Owner's Printed/Typed Name **Mark Patterson** Signature *Mark Patterson* Month **7** Day **20** Year **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name **D HUBBINS** Signature *D Hubbins* Month **7** Day **20** Year **10**
Transporter 2 Printed/Typed Name Signature Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number

Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name **Marisa Teut** Signature *Marisa Teut* Month **7** Day **20** Year **10**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183963
Date: 7/20/2010
Time: 14:17:48 - 14:18:41

Truck: ACME934
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: Dump Truck

Gross: 74780 lb In Scale 1
Tare: 30660 lb P.T.
Net: 44120 lb

Profile: 10-EWS-01/Contaminated Soil

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 42

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	50% of ISW/INDUSTRIAL SOLID	11.03	ton	\$11.75/Ton	\$129.60
OH067/Portage	50% of ISW/INDUSTRIAL SOLID	11.03	ton	\$11.75/Ton	\$129.60
				Total Taxes:	\$393.78
				Total Amount:	\$652.98

Driver: D Huggins T 18

Deputy Weighmaster: Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
00413

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number
State ID 05008

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **20** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: **Dill** Signature: *Dill* Month: **7** Day: **20** Year: **10**
Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____
Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: **Marcus** Signature: *Marcus* Month: **7** Day: **20** Year: **10**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 103909
Date: 7/20/2010
Time: 14:35:07 - 14:35:20

Scale
Scale 1
P.T.

Gross: 95100 lb
Tare: 33960 lb
Net: 61220 lb

Truck: ACME951
Customer: 0231/Environmental Waste
Carrier: ACME/ACME Trucking Truck Type: coal bucket/ dump tr

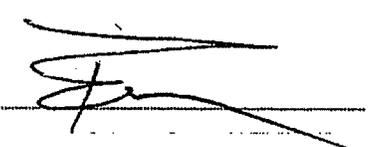
Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 43

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	30.61	ton	\$11.75/Ton	\$359.67
				Total Taxes:	\$546.40
				Total Amount:	\$906.07

Driver: 

Deputy Weighmaster: _____

Marcie Carpenter

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
QH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0044

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
031

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number
State ID 05008

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **20** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

Transporter Signature (for exports only): _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **Greg Plunkett** Signature: *Greg Plunkett* Month: **7** Day: **20** Year: **10**

Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator) Facility's Phone: _____ U.S. EPA ID Number: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: _____ Signature: *Marcee Herbert* Month: **7** Day: **20** Year: **10**

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 103915
Date: 7/20/2010
Time: 14:57:14 - 14:57:31

Truck: ACHE031
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Profile: 10-EWS-01/Contaminated Sol
Truck Type: coal bucket/ dump tr
Gross: 09100 lb In Scale 1
Tare: 32400 lb P.T.
Net: 56700 lb

Generator: RVNA ARMY/Ravenna Army Am
Comment:

Manifest: 44

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	20.35 ton	\$11.75/Ton	\$333.11
	Total Taxes:			\$506.05
	Total Amount:			\$839.16

Driver: Greg T-D2

Deputy Weighmaster: Marcie Carpenter

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0046

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: 330 358-7312

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: 330-823-6220

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson
Signature
Mark Patterson
Month Day Year
7 20 10

15. International Shipments
 Import to U.S. Export from U.S.
Port of entry/exit:
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name
Heath Ward
Signature
Heath Ward
Month Day Year
7 20 10
Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space
 Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number:
U.S. EPA ID Number

17b. Alternate Facility (or Generator)
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183920
Date: 7/20/2010
Time: 15:08:12 - 15:08:22

Scale
Scale 1
P.T.

Gross: 84940 lb In
Tare: 31420 lb
Net: 53520 lb

Truck: ACME901
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

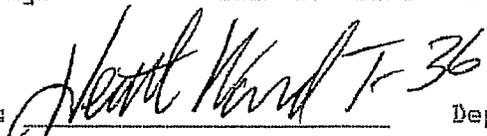
Generator: RVNA ARMY/Ravenna Army Am

Manifest: 45

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	26.76	ton	\$11.75/Ton	\$314.43
				Total Taxes:	\$477.67
				Total Amount:	\$792.10

Driver:



Deputy Weighmaster:

Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OHS210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 046		
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297		Generator's Site Address (if different than mailing address) LL2, LL3 Sites				
Generator's Phone: 330 358-7312		6. Transporter 1 Company Name The Acme Company		U.S. EPA ID Number N/A		
		7. Transporter 2 Company Name 062		U.S. EPA ID Number		
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601		U.S. EPA ID Number State ID 05008				
Facility's Phone: 330-823-6220						
GENERATOR	9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
	1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
	2.					
	3.					
4.						
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Generator's/Officer's Printed/Typed Name Mark Patterson		Signature <i>Mark Patterson</i>		Month 7	Day 20	Year 10
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name BOB CALLANAN		Signature <i>Bob Callanan</i>		Month 7	Day 20	Year 10
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____						
17b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone: _____						
17c. Signature of Alternate Facility (or Generator) Month Day Year						
DESIGNATED FACILITY TO GENERATOR						
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name		Signature <i>Mercede Heulett</i>		Month 7	Day 20	Year 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 103921
Date: 7/20/2010
Time: 15:11:22 - 15:11:50

Scale
Scale 1
P.T.

Gross: 82580 lb In
Tare: 33740 lb
Net: 48840 lb

Truck: ACME062
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Sci

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 46

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.42	ton	\$11.75/Ton	\$286.94
				Total Taxes:	\$435.90
				Total Amount:	\$722.84

Driver:

Bob + 9

Deputy Weighmaster:

Marcie Carpenter

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0047

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
330 358-7312**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
Patrick Inc 225

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
330-823-6220**

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Owner's Printed/Typed Name **Mark Patterson** Signature **Mark Patterson** Month **7** Day **20** Year **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

Transporter 2 Printed/Typed Name **Karen J. Farland** Signature **[Signature]** Month **7** Day **20** Year **10**

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number _____

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____

Facility's Phone: _____
17c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name _____ Signature **[Signature]** Month **7** Day **20** Year **10**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183924
Date: 7/20/2010
Time: 15:17:15 - 15:17:20

Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin

Scale
Gross: 76040 lb In Scale 1
Tare: 29400 lb P.T.
Net: 46640 lb

Truck Type: coal bucket/ dump tr

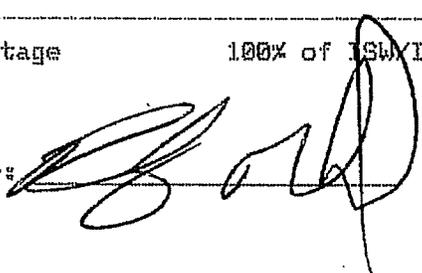
Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 47

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW INDUSTRIAL SOLID	23.32	ton	\$11.75/Ton	\$274.01
				Total Taxes:	\$416.26
				Total Amount:	\$690.27

Driver: 

Deputy Weighmaster:

Marcie Carpenter

RAVENNA AAP - TRUCK LOG SOIL REMOVAL LL2, LL3

DATE	TRUCK NUMBER/PLATE	MANIFEST NUMBER	SIGNATURE	WEIGHT (tons)	
7/21	Patrick # 222	0048	W	22.81	20.81 -
7/21	Acme # 934	0049	Duggins	22.81	-
7/21	Patrick # 223	0050	[Signature]	20.62	20.62 -
7/21	Patrick # 225	0051	[Signature]	24.08	-
7/21	Patrick # 150	0052	[Signature]	21.51	(Giffith) -
7/21	JMW # 27	0053	[Signature]	22.42	-
7/21	Patrick # 234	0054	[Signature]	16.98	-
7/21	JMW # 58	0055	[Signature]	18.65	-
7/21	JMW # 23	0056	Allen Miller	20.31	-
7/21	JMW # 14	0057	[Signature]	22.90	-
7/21	JMW # 17	0058	[Signature]	26.06	-
7/21	Acme # 072	0058	[Signature]	27.96	-
7/21	Acme # 982	0059	[Signature]	24.03	-
7/21	Acme # 031	0060	[Signature]	22.95	-
7/21	Patrick # 225	0062	[Signature]	21.00	-
7/21	Patrick # 222	0063	[Signature]	18.88	-

RAVENNA AAP - TRUCK LOG SOIL REMOVAL LL2, LL3

DATE	TRUCK NUMBER/PLATE	MANIFEST NUMBER	SIGNATURE	WEIGHT (tons)	
7/21	Acme # 934	0064	<i>[Signature]</i>	21.19	-
7/21	Patrick # 223	0065	<i>[Signature]</i>	25.39	-
7/21	Patrick # 150	0066	Erin Griffith	21.44	(Gifted) -
7/21	Patrick # 234	0067	<i>[Signature]</i>	20.53	-
7/21	JMW # 27	0068	<i>[Signature]</i>	25.64	-
7/21	JMW # 58	0069	<i>[Signature]</i>	25.08	-
7/21	JMW # 23	0070	Allen Miller	20.84	-
7/21	JMW # 14	0071	<i>[Signature]</i>	21.24	-
7/21	JMW # 17	0072	R. Jackson	21.32	-
7/21	Acme # 072	0073	<i>[Signature]</i>	22.73	-
7/21	Acme # 982	0074	<i>[Signature]</i>	31.68	-
7/21	Acme # 031	0075	Bug Area	25.84	-
7/21	Patrick # 225	0076	<i>[Signature]</i>	23.56	-
7/21	Patrick # 222	0077	<i>[Signature]</i>	22.33	-
7/21	Acme # 934	0078	<i>[Signature]</i>	21.74	-
7/21	Patrick # 223	0079	<i>[Signature]</i>	24.77	-

RAVENNA AAP - TRUCK LOG SOIL REMOVAL LL2, LL3

DATE	TRUCK NUMBER/PLATE	MANIFEST NUMBER	SIGNATURE	WEIGHT (tons)	
7/21	Petrak # 150	0080	Erin Hill	21.26	(Grippe)
7/21	Petrak # 234	0081	[Signature]	19.38	-
7/21	JMW # 27	0082	[Signature]	27.60	-
7/21	JMW # 58	0083	[Signature]	21.52	-
7/21	JMW # 23	0084	Allen Miller	18.53	-
7/21	JMW # 14	0085	[Signature]	21.16	-
7/21	Acme # 072	0086	[Signature]	31.16	-
7/21	Acme # 982	0087	[Signature]	25.06	-
7/21	Acme # 934	0088	[Signature]	23.10	-
				TOTAL	→ 947.02

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0048

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: 330 358-7312

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
~~The Acme Company~~

U.S. EPA ID Number
~~NA~~

7. Transporter 2 Company Name
Patrick Inc. 202

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: 330-823-6220

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Officer's Printed/Typed Name: Mark Patterson
Signature: [Signature]
Month: 7 Day: 21 Year: 16

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
Transporter 2 Printed/Typed Name: JASON VINEZ Signature: [Signature] Month: 7 Day: 21 Year: 16

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner/Operator Certification: Covered by the manifest except as noted in item 17a
Printed/Typed Name: Tracy Wheeler Deputy Weighmaster
Signature: [Signature] Month: 7 Day: 21 Year: 16

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 163955
Date: 7/21/2010
Time: 08:05:18 - 08:28:18

Scale

Gross: 73300 lb In Scale 1
Tare: 31680 lb Out Scale 1
Net: 41620 lb

Truck: PATRICK222
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0048

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	20.81	ton	\$11.75/Ton	\$244.52
				Total Taxes:	\$371.47
				Total Amount:	\$615.99

Drivers:

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of 1
3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0049

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297

LL2, LL3 Sites

Generator's Phone: 330 358-7312

6. Transporter 1 Company Name

The Acme Company

934

U.S. EPA ID Number

N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601

U.S. EPA ID Number

State ID 05008

Facility's Phone:

330-823-6220

9. Waste Shipping Name and Description

10. Containers

No. Type

11. Total Quantity

12. Unit Wt./Vol.

1. Non RCRA, Non DOT Regulated Soil

01

DT

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22

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

Mark Patterson

Signature

Mark Patten

Month Day Year
7 21 06

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

D HOGGINS T18

Signature

D Hoggins

Month Day Year
7 21 10

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

Tracy Wheeler

Deputy Warehouse

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Signature

Tracy Wheeler

Month Day Year
7 21 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183948
Date: 7/21/2010
Time: 08:11:38 - 08:11:43

Truck: ACME934
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: Dump Truck

Scale
Gross: 76280 lb In Scale 1
Tare: 30660 lb P.T.
Net: 45620 lb

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0049

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	22.81	ton	\$11.75/Ton	\$268.02
				Total Taxes:	\$407.17
				Total Amount:	\$675.19

By: D Higgins T18 Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0050

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number

7. Transporter 2 Company Name
Patrick Inc 223

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 21 10

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____

Transporter Signature (for exports only): _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name _____ Signature _____ Month Day Year _____

Transporter 2 Printed/Typed Name **Randy Roose** Signature *Randy Roose* Month Day Year **7 21 10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number _____

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____

18. Designated Facility Owner or Operator (Confirmation of Receipt of Materials covered by the manifest except as noted in Item 17a)

Printed/Typed Name **Tracy Wheeler** Deputy Weighmaster Signature *Tracy Wheeler* Month Day Year **7 21 10**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 103951
Date: 7/21/2010
Time: 08:10:14 - 08:10:20

Truck: PATRICK223
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Scale
Gross: 70300 lb In Scale 1
Tare: 29060 lb P.T.
Net: 41240 lb

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi

Manifest: 0050

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	20.62	ton	\$11.75/Ton	\$242.29
				Total Taxes:	\$368.07
				Total Amount:	\$610.36

Driver: 

Deputy Weighmaster: _____

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

OH5210020736

2. Page 1 of

1

3. Emergency Response Phone

330-720-1061

4. Waste Tracking Number

0051

5. Generator's Name and Mailing Address

Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297

Generator's Site Address (if different than mailing address)

LL2, LL3 Sites

Generator's Phone: 330 358-7312

6. Transporter 1 Company Name

~~The Acme Company~~

U.S. EPA ID Number

N/A

7. Transporter 2 Company Name

Patrick Inc. 225

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601

U.S. EPA ID Number

State ID 05008

Facility's Phone: 330-823-6220

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

1. Non RCRA, Non DOT Regulated Soil

No.

Type

EST. 22

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01

DT

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

Mark Patterson

Signature

Mark Pat

Month Day Year

7 21 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner/Operator Signature and Title (if different than Generator's Signature and Title) covered by the manifest except as noted in Item 17a

Printed/Typed Name

Tracy Wheeler
Deputy Weighmaster

Signature

[Signature]

Month Day Year

7 21 10

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

CENTRAL WASTE INC.
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183950
Date: 7/21/2010
Time: 08:16:23 - 08:16:30

Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Scale
Gross: 77560 lb In Scale 1
Tare: 29400 lb P.T.
Net: 48160 lb

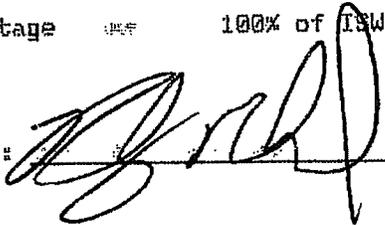
Generator: RUNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi

Manifest: 0051

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.08	ton	\$11.75/Ton	\$282.94
				Total Taxes:	\$429.83
				Total Amount:	\$712.77

Driver:



Deputy Weighmasters:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number DH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0052	
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297		Generator's Site Address (if different than mailing address) LL2, LL3 Sites			
Generator's Phone: 330 358-7312		U.S. EPA ID Number N/A			
6. Transporter 1 Company Name The Acme Company Evan Griffith Trucking		U.S. EPA ID Number N/A			
7. Transporter 2 Company Name Patrick Inc. 150		U.S. EPA ID Number			
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601		U.S. EPA ID Number			
Facility's Phone: 330-823-6220		State ID 05008			
GENERATOR	9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
	1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
	2.				
	3.				
4.					
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Owner's Printed/Typed Name Mark Patterson		Signature <i>Mark Patterson</i>		Month 7	Day 21
				Year 10	
INT'L	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit:		
	Transporter Signature (for exports only):		Date leaving U.S.:		
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials				
	Transporter 1 Printed/Typed Name		Signature		Month Day Year
	Transporter 2 Printed/Typed Name Evan Griffith		Signature <i>Evan Griffith</i>		Month Day Year 7 21 10
DESIGNATED FACILITY	17. Discrepancy				
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
	17b. Alternate Facility (or Generator)			U.S. EPA ID Number	
	Facility's Phone:				
17c. Signature of Alternate Facility (or Generator)					
Month Day Year					
18. Designated Facility Owner's Name: Tracy Wheeler Materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Deputy Weighmaster		Signature <i>Tracy Wheeler</i>		Month 7	Day 21
				Year 10	

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183962
Date: 7/21/2010
Time: 08:33:01 - 08:48:57

Truck: GRIFFITH15
Customer: 0231/Environmental Waste
Carrier: GRIFFITH/evan griffith Truck Type: Dump Truck

Scale
Gross: 72000 lb In Scale 1
Tare: 28980 lb Out Scale 1
Net: 43020 lb

Profile: 10-EWS-01/Contaminated Soi

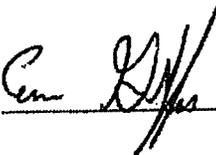
Generator: RUINA ARMY/Ravenna Army Am

Manifest: 0052

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
0M067/Portage	100% of ISW/INDUSTRIAL SOLID	21.51	ton	\$11.75/Ton	\$252.74
				Total Taxes:	\$383.96
				Total Amount:	\$636.70

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0053

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Acme Company U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: JMW 27 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 21 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: DENNIS HOGGINS Signature: Month: 7 Day: 21 Year: 10

17. Discrepancy: 17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Person Certified to Dispose of Materials covered by the manifest except as noted in item 17a:
 Printed/Typed Name: Tracy Wheeler Deputy Weighmaster Signature: Tracy Wheeler Month: 7 Day: 21 Year: 10

GENERATOR
INTL
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183964
Date: 7/21/2010
Time: 08:41:15 - 08:56:38

Scale

Gross: 79000 lb In Scale 1
Tare: 34160 lb Out Scale 1
Net: 44840 lb

Truck: JMW27

Customer: 0231/Environmental Waste

Carrier: JMW/jmw trucking

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0053

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID.	22.42 ton	\$11.75/Ton	\$263.44
			Total Taxes:	\$400.20
			Total Amount:	\$663.64

Drivers:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0034

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Phone: **330 358-7312**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The Home Company

U.S. EPA ID Number

7. Transporter 2 Company Name
Patrick Inc 234

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

Facility's Phone: **330-823-6220**

U.S. EPA ID Number

State ID **05008**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	Remarks
	No.	Type			
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **21** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

Transporter Signature (for exports only): _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

Transporter 2 Printed/Typed Name: **Ron E Berich** Signature: *Ron E Berich* Month: **7** Day: **21** Year: **10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

17b. Alternate Facility (or Generator) U.S. EPA ID Number _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: **Tarcy Wheeler** Signature: *Tarcy Wheeler* Month: **7** Day: **21** Year: **10**

Printed/Typed Name: **Deputy Weighmaster**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183959
Date: 7/21/2010
Time: 08:44:28 - 08:44:34

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin

Gross: 62680 lb In Scale
Tare: 28740 lb P.T.
Net: 33940 lb

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0054

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
0H067/Portage	100% of ISW/INDUSTRIAL SOLID	16.97	ton	\$11.75/Ton	\$199.40
				Total Taxes:	\$302.92
				Total Amount:	\$502.32

Driver: 

Deputy Weighmaster: _____

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number: OH5210020736 2. Page 1 of 1 3. Emergency Response Phone: 330-720-1061 4. Waste Tracking Number: 005T

5. Generator's Name and Mailing Address: **Ravenna Army Ammunition Plant**
 8451 State Route 5 Ravenna, OH 44266-9297
 330 358-7312
 Generator's Site Address (if different than mailing address): **LL2, LL3 Sites**

6. Transporter 1 Company Name: ~~The Home Company~~ U.S. EPA ID Number: ~~114~~

7. Transporter 2 Company Name: **JMW** U.S. EPA ID Number: **58**

8. Designated Facility Name and Site Address: **Central Waste Inc.**
 12003 Oyster Road
 Alliance, OH 44601
 330-823-6220
 U.S. EPA ID Number: _____
 State ID: **05008**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information:
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Owner's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month Day Year: **7 21 10**

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: _____
 Transporter Signature (for exports only): _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: **Ted Williamson** Signature: *Ted Williamson* Month Day Year: _____
 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: **7 21 10**

17. Discrepancy: 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: _____

17b. Alternate Facility (or Generator): _____ U.S. EPA ID Number: _____
 Facility's Phone: _____
 17c. Signature of Alternate Facility (or Generator): _____ Month Day Year: _____

18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: **Tracy Wheeler** Signature: *Tracy Wheeler* Month Day Year: **7 21 10**
 Deputy Weighmaster

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183969
Date: 7/21/2010
Time: 08:54:29 - 09:09:46

Truck: JMW58
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Scale
Gross: 71700 lb In Scale 1
Tare: 34400 lb Out Scale 1
Net: 37300 lb

Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0055

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	18.65	ton	\$11.75/Ton	\$219.14
				Total Taxes:	\$332.91
				Total Amount:	\$552.05

Driver: 

Deputy Weighmaster: _____

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0056

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297, 330 358-7312
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites

6. Transporter 1 Company Name: The Acme Company U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: JMW 23 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601, 330-823-6220
 Facility's Phone: U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 21 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Allen Miller Signature: Allen Miller Month: 7 Day: 21 Year: 10
 Transporter 2 Printed/Typed Name: Signature: Month: 7 Day: 21 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner/Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Tracy Wheeler Deputy Weighmaster Signature: Tracy Wheeler Month: 7 Day: 21 Year: 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183975
Date: 7/21/2010
Time: 09:06:34 - 09:27:54

Scale
Gross: 77700 lb In Scale 1
Tare: 35080 lb Out Scale 1
Net: 42620 lb

Truck: JMW23
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0056

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.31	ton	\$11.75/Ton	\$250.39
				Total Taxes:	\$380.39
				Total Amount:	\$630.78

Driver:

Allen Miller

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0057

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Acme Company U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: JMW 14 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601 U.S. EPA ID Number: State ID 05008
 Facility's Phone: 330-823-6220

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Owner's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 21 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials: Transporter Signature (for exports only):

Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year: 7 21 10

17. Discrepancy: 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator): Manifest Reference Number: U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner/Operator: Tracy Wheeler
 Printed/Typed Name: Deputy Weighmaster Signature: Month: Day: Year: 7 21 10

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 103979
Date: 7/21/2010
Time: 09:15:35 - 09:36:56

Truck: JMW14
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking Truck Type: Dump Truck

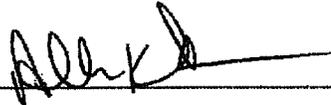
Scale
Gross: 81780 lb In Scale 1
Tare: 35980 lb Out Scale 1
Net: 45800 lb

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi

Manifest: 0057

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	22.90	ton	\$11.75/Ton	\$269.08
				Total Taxes:	\$408.77
				Total Amount:	\$677.85

Driver: 

Deputy Weighmaster: _____

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 058
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5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297	Generator's Site Address (if different than mailing address) LL2, LL3 Sites
Generator's Phone: 330 358-7312	

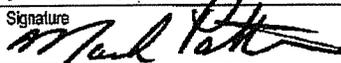
6. Transporter 1 Company Name The Acme Company	U.S. EPA ID Number N/A
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7. Transporter 2 Company Name 	U.S. EPA ID Number
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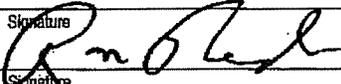
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601	U.S. EPA ID Number
Facility's Phone: 330-823-6220	State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information Approval # 10-EWS-01

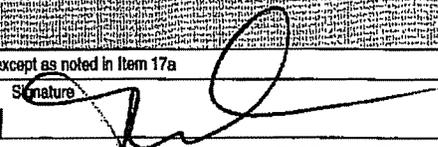
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.			
Generator's/Officer's Printed/Typed Name Mark Patterson	Signature 	Month 7	Day 21
		Year 10	

15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
Transporter Signature (for exports only):	

16. Transporter Acknowledgment of Receipt of Materials			
Transporter 1 Printed/Typed Name Ron Reisinger	Signature 	Month 7	Day 21
Transporter 2 Printed/Typed Name	Signature	Year 10	

17. Discrepancy	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
17b. Alternate Facility (or Generator)	Manifest Reference Number: U.S. EPA ID Number

Facility's Phone:	17c. Signature of Alternate Facility (or Generator)	Month 7	Day 21	Year 10
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18. Designated Facility (or Operator) Signature of materials covered by the manifest except as noted in Item 17a	Printed/Typed Name Tracy Wheeler Deputy Weighmaster	Signature 	Month 7	Day 21	Year 10
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CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183977
Date: 7/21/2010
Time: 09:32:56 - 09:33:25

Gross: 89600 lb In Scale
Tare: 33680 lb P.T.
Net: 55920 lb

Truck: ACME072
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: coal bucket/ dump tr -

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi
Manifest: 0058
Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	27.96	ton	\$11.75/Ton	\$328.53
				Total Taxes:	\$499.09
				Total Amount:	\$827.62

Driver: Ray Ruel Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OHS210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0059

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Acme Company 982 U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit WL/Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's Name: Mark Patterson Signature: [Signature] Month: 7 Day: 26 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Name: [Signature] Signature: [Signature] Month: 7 Day: 26 Year: 10
 Transporter 2 Name: Signature: Month: Day: Year:

Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

Month Day Year

Wheeler Weighmaster Signature: [Signature] Month: 7 Day: 26 Year: 10

DESIGNATED FACILITY TO GENERATOR

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183983
Date: 7/21/2010
Time: 09:43:55 - 09:44:00

Gross: 70900 lb In Scale
Tare: 30840 lb P.T.
Net: 40060 lb

Truck: ACME982
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soil

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0059

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISM/INDUSTRIAL SOLID	24.03	ton	\$11.75/Ton	\$282.35
				Total Taxes:	\$428.94
				Total Amount:	\$711.29

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 060
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5. Generator's Name and Mailing Address: **Ravenna Army Ammunition Plant**
8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Phone: **330 358-7312**

Generator's Site Address (if different than mailing address): **LL2, LL3 Sites**

6. Transporter 1 Company Name: **The Acme Company** (Handwritten: **031**)
 U.S. EPA ID Number: **N/A**

7. Transporter 2 Company Name: _____
 U.S. EPA ID Number: _____

8. Designated Facility Name and Site Address: **Central Waste Inc.**
12003 Oyster Road
Alliance, OH 44601
 Facility's Phone: **330-823-6220**

U.S. EPA ID Number: _____
 State ID: **05008**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____

13. Special Handling Instructions and Additional Information:
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson**
 Signature: *Mark Patterson*
 Month: **7** Day: **21** Year: **10**

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: _____
 Transporter Signature (for exports only): _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **Greg Plunkett**
 Signature: *Greg Plunkett*
 Month: **7** Day: **21** Year: **10**

Transporter 2 Printed/Typed Name: _____
 Signature: _____
 Month: _____ Day: _____ Year: _____

17. Discrepancy

17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator): _____
 Facility's Phone: _____ U.S. EPA ID Number: _____

17c. Signature of Alternate Facility (or Generator): _____
 Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name: **Tracy Wheeler**
 Signature: *Tracy Wheeler*
 Month: **7** Day: **21** Year: **10**

GENERATOR
 INTL
 TRANSPORTER
 DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183988
Date: 7/21/2010
Time: 09:00:24 - 10:00:30

Truck: ACME031
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Gross: 78300 lb In Scale 1
Tare: 32400 lb P.T.
Net: 45900 lb

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0060

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	22.95	ton	\$11.75/Ton	\$269.66
				Total Taxes:	\$409.66
				Total Amount:	\$679.32

Driver:

Caregt 42

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

OH5210020736

2. Page 1 of

1

3. Emergency Response Phone

330-720-1061

4. Waste Tracking Number

0061

5. Generator's Name and Mailing Address

Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297

Generator's Site Address (if different than mailing address)

LL2, LL3 Sites

Generator's Phone: 330 358-7312

6. Transporter 1 Company Name

The Acme Company

U.S. EPA ID Number

N/A

7. Transporter 2 Company Name

JMW 17

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
330-823-6220

U.S. EPA ID Number

State ID 05008

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1. Non RCRA, Non DOT Regulated Soil

01

DT

EST.
22

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Operator's Printed/Typed Name

Mark Patterson

Signature

Mark Patterson

Month Day Year

7 21 10

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

ROBERT JACKSON

Signature

Robert Jackson

Month Day Year

7 21 10

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Deputy Weighmaster

Signature

Tracy Wheeler

Month Day Year

7 21 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183980
Date: 7/21/2010
Time: 09:23:53 - 09:39:35

Scale

Gross: 86540 lb In Scale 1
Tare: 34420 lb Out Scale 1
Net: 52120 lb

Truck: JMW17
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0061

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	26.06	ton	\$11.75/Ton	\$306.21
				Total Taxes:	\$465.18
				Total Amount:	\$771.39

Driver:

Robert Jackson

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
00 62

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
~~NYA~~

7. Transporter 2 Company Name
Patrick Inc 225

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Pat* Month: **7** Day: **21** Year: **06**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: **Randy O'Farrell** Signature: *Randy O'Farrell* Month: **7** Day: **21** Year: **10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: **Tracy Wheeler** Signature: *Tracy Wheeler* Month: Day: Year:

Printed/Typed Name: **Deputy Weighmaster**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183991
Date: 7/21/2010
Time: 10:05:19 - 10:05:23

Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

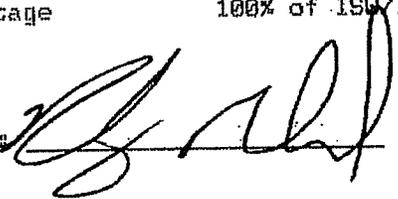
Gross: 71400 lb In Scale
Tare: 29400 lb P.T.
Net: 42000 lb

Generator: RVNA ARMY/Ravenna Army Am
Comment:

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0062

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.00	ton	\$11.75/Ton	\$246.75
				Total Taxes:	\$374.85
				Total Amount:	\$621.60

Drivers: 

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: **OH5210020736**
 2. Page 1 of: **1**
 3. Emergency Response Phone: **330-720-1061**
 4. Waste Tracking Number: **0063**

5. Generator's Name and Mailing Address: **Ravenna Army Ammunition Plant**
8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): **LL2, LL3 Sites**
 Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name: **The Acme Company**
 U.S. EPA ID Number: ~~1111~~

7. Transporter 2 Company Name: **Patrick Inc. 222**
 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: **Central Waste Inc.**
12003 Oyster Road
Alliance, OH 44601
 Facility's Phone: **330-823-6220**
 U.S. EPA ID Number:
 State ID **05008**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information:
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: **Mark Patterson**
 Signature: *Mark Patterson*
 Month: **7** Day: **21** Year: **10**

15. International Shipments: Import to U.S. Export from U.S.
 Port of entry/exit:
 Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____
 Transporter 2 Printed/Typed Name: **JASON VINEZ** Signature: *JV* Month: **7** Day: **21** Year: **10**

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator): _____ U.S. EPA ID Number: _____
 Facility's Phone: _____
 17c. Signature of Alternate Facility (or Generator): _____ Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: **Tracy Wheeler**
 Signature: *Tracy Wheeler*
 Month: **7** Day: **21** Year: **10**
 Deputy Weighmaster

GENERATOR
INTL
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183993
Date: 7/21/2010
Time: 10:52 - 10:10:57

Truck: PATRICK222
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin

Scale
Gross: 69440 lb In Scale 1
Tare: 31680 lb P.T.
Net: 37760 lb

Truck Type: coal bucket/ dump tr

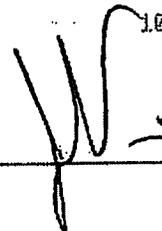
Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0063

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	18.88	ton	\$11.75/Ton	\$221.84
				Total Taxes:	\$337.01
				Total Amount:	\$558.85

Drivers: 

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST
 1. Generator ID Number: OH5210020736
 2. Page 1 of 1
 3. Emergency Response Phone: 330-720-1061
 4. Waste Tracking Number: 0064

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant
 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Acme Company
 U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: [Blank]
 U.S. EPA ID Number: [Blank]

8. Designated Facility Name and Site Address: Central Waste Inc.
 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: [Blank]
 State ID: 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2. [Blank]				
3. [Blank]				
4. [Blank]				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Owner's Printed/Typed Name: Mark Patterson
 Signature: [Signature]
 Month Day Year: 7 21 10

15. International Shipments: Import to U.S. Export from U.S.
 Port of entry/exit: [Blank]
 Date leaving U.S.: [Blank]

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: D HUGGINS T18
 Signature: [Signature]
 Month Day Year: 7 21 10
 Transporter 2 Printed/Typed Name: [Blank]
 Signature: [Blank]
 Month Day Year: [Blank]

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: [Blank]

17b. Alternate Facility (or Generator): [Blank]
 U.S. EPA ID Number: [Blank]
 Facility's Phone: [Blank]

17c. Signature of Alternate Facility (or Generator): [Blank]
 Month Day Year: [Blank]

18. Designated Facility Owner or Operator: Tracy Wheeler
 Printed/Typed Name: Tracy Wheeler
 Signature: [Signature]
 Month Day Year: 7 21 10

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 183999
Date: 7/21/2010
Time: ~~10:26:26~~ 10:27:15

Truck: ACME934
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: Dump Truck

Scale
Gross: 73040 lb In Scale 1
Tare: 30660 lb P.T.
Net: 42380 lb

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soil

Manifest: 0064

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.19 ton	\$11.75/Ton	\$248.98
			Total Taxes:	\$378.24
			Total Amount:	\$627.22

Driver: D Higgins T18 Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0065

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Arco Company U.S. EPA ID Number: ~~None~~

7. Transporter 2 Company Name: Patrick Inc. 223 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Owner's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 21 Year: 06

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: Randy Rouse Signature: Randy Rouse Month: 7 Day: 21 Year: 06

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator): Manifest Reference Number: U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Wheeler Signature: Wheeler Month: 7 Day: 21 Year: 06
 Deputy Weighmaster

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184001
Date: 7/21/2010
Time: 10:31:28 - 10:31:33

Truck: PATRICK223
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

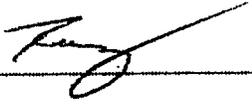
Scale
Gross: 79040 lb In Scale 1
Tare: 29060 lb P.T.
Net: 50780 lb

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi

Manifest: 0065

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	25.39	ton	\$11.75/Ton	\$298.33
				Total Taxes:	\$453.21
				Total Amount:	\$751.54

Driver: 

Deputy Weighmaster: _____

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST
 1. Generator ID Number: OH5210020736
 2. Page 1 of 1
 3. Emergency Response Phone: 330-720-1061
 4. Waste Tracking Number: 8066

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant
 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Acme Company
 U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: Petruck Inc (Griffith) 150
 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc.
 12003 Oyster Road
 Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number:
 State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
 Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's Owner's Printed/Typed Name: Mark Patterson
 Signature: [Signature]
 Month: 7 Day: 26 Year: 10

15. International Shipments: Import to U.S. Export from U.S.
 Port of entry/exit:
 Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter Signature (for exports only):
 Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: [Blank]
 Signature: [Blank]
 Month: Day: Year:
 Transporter 2 Printed/Typed Name: Evan Griffith
 Signature: [Signature]
 Month: 7 Day: 26 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator):
 Facility's Phone:
 Manifest Reference Number:
 U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator):
 Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Tracy Wheeler
 Signature: [Signature]
 Month: 7 Day: 26 Year: 10
 Deputy Weighmaster

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

OH5210020736

2. Page 1 of

1

3. Emergency Response Phone

330-720-1061

4. Waste Tracking Number

0067

5. Generator's Name and Mailing Address

Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297

Generator's Site Address (if different than mailing address)

LL2, LL3 Sites

Generator's Phone:

330 358-7312

6. Transporter 1 Company Name

The Acme Company

U.S. EPA ID Number

~~HTA~~

7. Transporter 2 Company Name

Patrick Inc. 234

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
330-823-6220

U.S. EPA ID Number

State ID 05008

Facility's Phone:

9. Waste Shipping Name and Description

1. Non RCRA, Non DOT Regulated Soil

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

01

DT

EST. 22

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's Name's Printed/Typed Name

Mark Patterson

Signature

Mark Patterson

Month Day Year

7 21 10

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator's Confirmation of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Deputy Weighmaster

Signature

Tracy Wheeler

Month Day Year

7 21 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104006
Date: 7/21/2010
Time: 10:47:34 - 10:47:38

Scale
Scale 1
P.T.

Gross: 69800 lb
Tare: 28740 lb
Net: 41060 lb

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0067

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	20.53	ton	\$11.75/Ton	\$241.23
				Total Taxes:	\$366.47
				Total Amount:	\$607.70

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0068
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5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297	Generator's Site Address (if different than mailing address) LL2, LL3 Sites
Generator's Phone: 330 358-7312	

6. Transporter 1 Company Name The Acme Company	U.S. EPA ID Number None
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7. Transporter 2 Company Name JMW 27	U.S. EPA ID Number
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8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601	U.S. EPA ID Number	State ID 05008
Facility's Phone: 330-823-6220		

8. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **21** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

Transporter Signature (for exports only): _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

Transporter 2 Printed/Typed Name: **Dennis Hoggins** Signature: *Dennis Hoggins* Month: **7** Day: **21** Year: **10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a.

Printed/Typed Name: **Tracy Wheeler** Signature: *Tracy Wheeler* Month: **7** Day: **21** Year: **10**

Deputy Weighmaster

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184019
Date: 7/21/2010
Time: 11:15:22 - 11:15:27

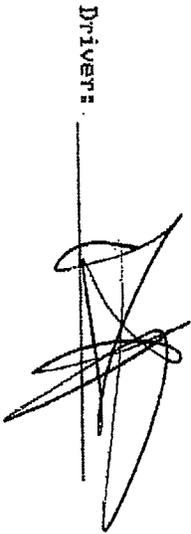
Truck: JMW27
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Gross: 85460 lb 1m Scale 1
Tare: 34180 lb
Net: 51280 lb P.T.

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EMS-01/Contaminated Soil
Manifest: 0068

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
04067/Portage	100% of ISM/INDUSTRIAL SOLID	25.64	ton	\$11.75/Ton	\$301.27
				Total Taxes:	\$457.67
				Total Amount:	\$758.94

Driver: 

Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0069

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Phone: **330 358-7312**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
JMW 58

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

Facility's Phone: **330-823-6220**

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patt* Month: **7** Day: **21** Year: **00**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **Red Williamson** Signature: *Red Williamson* Month: **8** Day: **21** Year: **00**

Transporter 2 Printed/Typed Name: Signature: *[Signature]* Month: **7** Day: **21** Year: **00**

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility (or Generator) Printed/Typed Name: **Tracy Wheeler** Deputy Weighmaster Signature: *[Signature]* Month: **7** Day: **21** Year: **00**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184023
Date: 7/21/2010
Time: 11:33:01 - 11:33:00

Truck: JMW58
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Gross: 04540 lb In Scale 1
Tare: 34380 lb P.T.
Net: 50160 lb

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0069

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	25.08	ton	\$11.75/Ton	\$294.69
				Total Taxes:	\$447.60
				Total Amount:	\$742.37

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0070
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5. Generator's Name and Mailing Address: **Ravenna Army Ammunition Plant**
 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Phone: **330 358-7312**

Generator's Site Address (if different than mailing address): **LL2, LL3 Sites**

6. Transporter 1 Company Name: **The Home Company** U.S. EPA ID Number: ~~***~~

7. Transporter 2 Company Name: **JMW 23** U.S. EPA ID Number:

8. Designated Facility Name and Site Address: **Central Waste Inc.**
 12003 Oyster Road
 Alliance, OH 44601
 Facility's Phone: **330-823-6220**

U.S. EPA ID Number: State ID **05008**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Operator's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **21** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **Allen Miller** Signature: *Allen Miller* Month: **7** Day: **21** Year: **10**

Transporter 2 Printed/Typed Name: Signature: Month: **7** Day: **21** Year: **10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: **Tracy Wheeler** Signature: *Tracy Wheeler* Deputy Weighmaster Month: **7** Day: **21** Year: **10**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184024
Date: 7/21/2010
Time: 11:35:02 - 11:35:07

Truck: JMW23
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Scale
Gross: 76740 lb In Scale 1
Tare: 35060 lb P.T.
Net: 41680 lb

Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi

Manifest: 0070

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	20.84	ton	\$11.75/Ton	\$244.87
				Total Taxes:	\$371.99
				Total Amount:	\$616.86

Driver: Allen Miller

Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0071

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Lane Company U.S. EPA ID Number: ~~444~~

7. Transporter 2 Company Name: JMW 14 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Owner's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 21 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Allen Koush Signature: Month: 7 Day: 21 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner/Operator Printed/Typed Name: Tracy Wheeler Deputy Warehousekeeper Signature: Month: 7 Day: 21 Year: 10

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

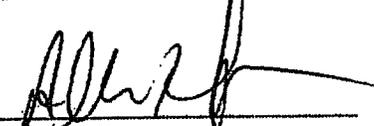
Ticket: 104025
Date: 7/21/2010
Time: 11:51:13 - 11:51:17

Truck: JMW14
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking Truck Type: Dump Truck

Scale
Gross: 70440 lb In Scale 1
Tare: 35960 lb P.T.
Net: 42480 lb

Profile: 10-EWS-01/Contaminated Soi
Generator: RVNA ARMY/Ravenna Army Am
Manifest: 0071
Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.24	ton	\$11.75/Ton	\$249.57
				Total Taxes:	\$379.13
				Total Amount:	\$628.70

Driver:  Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number 0H5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0072

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Ams Company~~ U.S. EPA ID Number: ~~***~~

7. Transporter 2 Company Name: JMW 17 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 21 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter Signature (for exports only):

16. Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: ROBERT JACKSON Signature: Robert Jackson Month: 7 Day: 21 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator) Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a.
 Printed/Typed Name: Tracy Wheeler Signature: Tracy Wheeler Month: 7 Day: 21 Year: 10
 Deputy Warehousemaster

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184026
Date: 7/21/2010
Time: 11:54:00 - 11:54:26

Scale

Gross: 77060 lb In Scale 1

Tare: 34420 lb P.T.

Net: 42640 lb

Truck: JMW17

Customer: 0231/Environmental Waste #

Carrier: JMW/jmw trucking

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soil

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0072

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.32	ton	\$11.75/Ton	\$250.51
				Total Taxes:	\$380.56
				Total Amount:	\$631.07

Driver:

Robert Jensen

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 073
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5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297	Generator's Site Address (if different than mailing address) LL2, LL3 Sites
Generator's Phone: 330 358-7312	

6. Transporter 1 Company Name The Acme Company	U.S. EPA ID Number N/A
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7. Transporter 2 Company Name	U.S. EPA ID Number
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8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601	U.S. EPA ID Number State ID 05008
Facility's Phone: 330-823-6220	

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Generator's/Officer's Printed/Typed Name Mark Patterson	Signature <i>Mark Patterson</i>	Month 7	Day 21	Year 00

15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit:
Transporter Signature (for exports only):	Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name Ron Redinger	Signature <i>Ron Redinger</i>	Month 7	Day 21	Year 00
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

17. Discrepancy
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)	U.S. EPA ID Number
Facility's Phone:	
17c. Signature of Alternate Facility (or Generator)	Month Day Year

18. Designated Facility Owner/Operator's Printed/Typed Name Tracy Wheeler Deputy Weighmaster	Signature <i>Tracy Wheeler</i>	Month 7	Day 21	Year 00
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CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104032
Date: 7/21/2010
Time: 12:00:31 - 12:00:40

Truck: ACNE072

Gross: 09140 1b In Scale 1
Tare: 33600 1b P.T.
Net: 55460 1b

Customer: 0231/Environmental Waste
Carrier: ACME/ACME Trucking

Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am

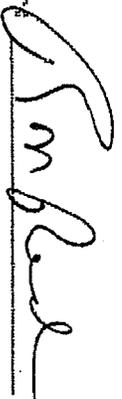
Profile: 10-EMS-01/Contaminated Sol

Manifest: 0073

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISM/INDUSTRIAL SOLID	27.73	ton	\$11.75/Ton	\$325.83

Total Taxes: \$494.99
Total Amount: \$820.82

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number: OH5210020736 2. Page 1 of 1 3. Emergency Response Phone: 330-720-1061 4. Waste Tracking Number: 0074

5. Generator's Name and Mailing Address: **Ravenna Army Ammunition Plant**
 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Phone: 330 358-7312
 Generator's Site Address (if different than mailing address): **LL2, LL3 Sites**

6. Transporter 1 Company Name: **The Acme Company** U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address: **Central Waste Inc.**
 12003 Oyster Road
 Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information:
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: 7 Day: 21 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: *Bob Lewis* Signature: *Bob Lewis* Month: 7 Day: 21 Year: 10
 Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Signature: *Mark Patterson* Month: 7 Day: 21 Year: 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104035
Date: 7/21/2010
Time: 12:18:25 - 12:18:39

Truck: ACME902
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking
Truck Type: coal bucket/ dump tr
Gross: 94200 lb In Scale 1
Tare: 30840 lb P.T.
Net: 63360 lb

Generator: RUNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi
Manifest: 74

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISM/INDUSTRIAL SOLID	31.68 ton	\$11.75/Ton	\$372.24
			Total Taxes:	\$565.49
			Total Amount:	\$937.73

Driver:  Deputy Weighmaster:

Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0075
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5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297		Generator's Site Address (if different than mailing address) LL2, LL3 Sites	
Generator's Phone: 330 358-7312			

6. Transporter 1 Company Name The Acme Company	U.S. EPA ID Number N/A
7. Transporter 2 Company Name	U.S. EPA ID Number

8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601	U.S. EPA ID Number
Facility's Phone: 330-823-6220	State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit WL/Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Generator's/Officer's Printed/Typed Name Mark Patterson	Signature <i>Mark Patterson</i>	Month 7	Day 21	Year 10

15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit:
Transporter Signature (for exports only):	Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials	Signature	Month	Day	Year
Transporter 1 Printed/Typed Name Greg Plunkett	<i>Greg Plunkett</i>	7	21	10
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

17. Discrepancy
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)	U.S. EPA ID Number
Facility's Phone:	
17c. Signature of Alternate Facility (or Generator)	Month Day Year

18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17a				
Printed/Typed Name Tracy Wheeler	Signature <i>Tracy Wheeler</i>	Month 7	Day 21	Year 10
Deputy Wagonmaster				

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184060
Date: 7/21/2010
Time: 13:58:48 - 13:58:53

Truck: ACME031
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Gross: 84080 lb In Scale 1
Tare: 32400 lb P.T.
Net: 51680 lb

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0075

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	25,84	ton	\$11.75/Ton	\$303.62
				Total Taxes:	\$461.24
				Total Amount:	\$764.86

Driver:

Greg T. 42

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0076

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Home Company~~ U.S. EPA ID Number: ~~N/A~~

7. Transporter 2 Company Name: Patrick Inc. 225 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601 U.S. EPA ID Number:
 Facility's Phone: 330-823-6220 State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: *Mark Patterson* Month: 7 Day: 21 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials: Transporter Signature (for exports only):

16. Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: Signature: *Randy McFarland* Month: 7 Day: 21 Year: 10

17. Discrepancy: 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a.
 Printed/Typed Name: Signature: *Mark Patterson* Month: 7 Day: 21 Year: 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184039
Date: 7/21/2010
Time: 12:38:32 - 12:38:44

***** Reprinted Ticket *****

Gross: 76520 lb In Scale
Tare: 29400 lb P.T.
Net: 47120 lb

Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Soi

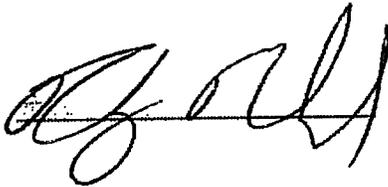
Generator: RVNA ARMY/Ravenna Army Am

Manifest: 76

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.56	ton	\$11.75/Ton	\$276.83
				Total Taxes:	\$420.55
				Total Amount:	\$697.38

Driver:



Deputy Weighmaster:

Marcie Carpenter

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0077
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5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297		Generator's Site Address (if different than mailing address) LL2, LL3 Sites	
Generator's Phone: 330 358-7312			

6. Transporter 1 Company Name The Acme Company	U.S. EPA ID Number N/A
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7. Transporter 2 Company Name Petrick Inc 222	U.S. EPA ID Number
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8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601	U.S. EPA ID Number
Facility's Phone: 330-823-6220	State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Generator's/Officer's Printed/Typed Name Mark Patterson	Signature <i>Mark Patterson</i>	Month 7	Day 21	Year 10

15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit:
Transporter Signature (for exports only):	Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials	Signature	Month	Day	Year
Transporter 1 Printed/Typed Name	<i>[Signature]</i>			
Transporter 2 Printed/Typed Name JASON VINEZ	<i>[Signature]</i>	7	21	10

17. Discrepancy
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)	U.S. EPA ID Number
Facility's Phone:	

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Representative: Tracy Wheeler (Printed/Typed Name) Deputy Weighmaster				
Signature <i>[Signature]</i>		Month 7	Day 21	Year 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184042
Date: 7/21/2010
Time: 12:49:57 - 12:50:27

Truck: PATRICK222
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin

Scale
Gross: 86340 lb In Scale 1
Tare: 31680 lb P.T.
Net: 54660 lb

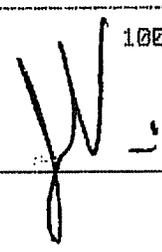
Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi

Manifest: 0077

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	27.33	ton	\$11.75/Ton	\$321.13
				Total Taxes:	\$487.85
				Total Amount:	\$808.98

Driver: 

Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 078

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297, 330 358-7312. Generator's Site Address (if different than mailing address): LL2, LL3 Sites

6. Transporter 1 Company Name: The Acme Company, U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601, 330-823-6220. U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Generator's/Officer's Printed/Typed Name: Mark Patterson, Signature: [Signature], Month: 7, Day: 21, Year: 16

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials. Transporter 1 Printed/Typed Name: D Huggins TIS, Signature: [Signature], Month: 7, Day: 21, Year: 16. Transporter 2 Printed/Typed Name: Signature: [Signature], Month: Day: Year:

17. Discrepancy. 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection. Manifest Reference Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number: Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Tracy Wheeler, Deputy Weighmaster, Signature: [Signature], Month: 7, Day: 21, Year: 16

CENTRAL WASTE INC.
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184046
Date: 7/21/2010
Time: 13:07:13 - 13:07:18

Gross: 74140 lb In Scale 1
Tare: 30660 lb P.T.
Net: 43480 lb

Truck: ACME934
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Soi

Generator: RUNA ARMY/Ravenna Army Am

Manifest: 0078

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.74	ton	\$11.75/Ton	\$255.45
				Total Taxes:	\$388.06
				Total Amount:	\$643.51

Driver: D. Huggins T18 Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0079

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Home Company~~ U.S. EPA ID Number: ~~N/A~~

7. Transporter 2 Company Name: Patrick Inc 223 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601 U.S. EPA ID Number:
 Facility's Phone: 330-823-6220 State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's Operator's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 21 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: 7 Day: Year: 10

Transporter 2 Printed/Typed Name: RANDY RUSSELL Signature: Randy Month: 7 Day: 21 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residua Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Tracy Wheeler Deputy Warehouse Manager Signature: Tracy Wheeler Month: 7 Day: 21 Year: 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184049
Date: 7/21/2010
Time: 13:12:00 - 13:12:14

Truck: PATRICK223
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Gross: 70600 lb In Scale
Tare: 29060 lb P.T.
Net: 49540 lb

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated* Soi
Manifest: 0079

Comment:

Origin	Materials & Services	Quantity	Unit	Rate/Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.77	ton	\$11.75/Ton	\$291.05
				Total Taxes:	\$442.15
				Total Amount:	\$733.20

Driver:  Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0080

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297. Generator's Site Address (if different than mailing address): LL2, LL3 Sites. Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Home Company~~ U.S. EPA ID Number: ~~None~~

7. Transporter 2 Company Name: *Patterson (Griffith) 150* U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601. Facility's Phone: 330-823-6220. State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Generator's Officer's Printed/Typed Name: Mark Patterson. Signature: *Mark Patterson*. Month: 7, Day: 20, Year: 10.

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials. Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: *Evan Griffith*. Signature: *Evan Griffith*. Month: 7, Day: 20, Year: 10.

17. Discrepancy. 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection. Manifest Reference Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:

Facility's Phone: 17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

DESIGNATED FACILITY TO GENERATOR. 18. Designated Facility Owner or ~~Operator~~ Signature of receipt of materials covered by the manifest except as noted in item 17a. Printed/Typed Name: Tracy Wheeler. Signature: *Tracy Wheeler*. Month: Day: Year:

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184057
Date: 7/21/2010
Time: 13:49:44 - 13:49:49

Truck: GRIFFITH15
Customer: 0231/Environmental Waste
Carrier: GRIFFITH/evan griffith Truck Type: Dump Truck

Scale
Gross: 71500 lb In Scale 1
Tare: 28980 lb P.T.
Net: 42520 lb

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi
Manifest: 0000

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.26	ton	\$11.75/Ton	\$249.81
				Total Taxes:	\$379.50
				Total Amount:	\$629.31

Driver:

Evan Griffith

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number: OH5210020736 2. Page 1 of 1 3. Emergency Response Phone: 330-720-1061 4. Waste Tracking Number: 0081

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Home Company~~ U.S. EPA ID Number: ~~N/A~~

7. Transporter 2 Company Name: Patrick Inc. 234 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: [Signature] Month: 7 Day: 21 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Ron Perich Signature: [Signature] Month: 7 Day: 21 Year: 10

17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner: Tracy Wheeler
 Printed/Typed Name: Deputy Weighmaster Signature: [Signature] Month: 7 Day: 21 Year: 10

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184059
Date: 7/21/2010
Time: 13:54:48 - 13:55:49

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Gross: 67500 lb In Scale
Tare: 28740 lb Scale 1
Net: 38760 lb P.T.

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi
Manifest: 0081
Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	19.38	ton	\$11.75/Ton	\$227.72
				Total Taxes:	\$345.94
				Total Amount:	\$573.66

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0082

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Acme Company~~ U.S. EPA ID Number: ~~12345~~

7. Transporter 2 Company Name: JMW 27 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit WL/Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: *Mark Patterson* Month: 7 Day: 21 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Dennis Higgins Signature: *Dennis Higgins* Month: 7 Day: 21 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator): Manifest Reference Number: U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Tracy Wheeler Signature: *Tracy Wheeler* Month: 7 Day: 21 Year: 10

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184062
Date: 7/21/2010
Time: 14:07:47 - 14:08:22

Truck: JMW27
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Scale
Gross: 89380 lb In Scale 1
Tare: 34180 lb P.T.
Net: 55200 lb

Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0082

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	27.60	ton	\$11.75/Ton	\$324.30
				Total Taxes:	\$492.66
				Total Amount:	\$816.96

Drivers: _____

Deputy Weighmaster: _____

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0084

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Acme Company~~ U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: JMW 23 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 21 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Allen Miller Signature: Allen Miller Month: 7 Day: 21 Year: 10
 Transporter 2 Printed/Typed Name: Signature: Month: 7 Day: 21 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:
 17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Tracy Wheeler Signature: Tracy Wheeler Month: 7 Day: 21 Year: 10

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184073
Date: 7/21/2010
Time: 14:44:57 - 14:45:02

Scale
Scale 1
P.T.

Gross: 72120 lb In
Tare: 35060 lb
Net: 37060 lb

Truck: JMW23
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0084

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	18.53	ton	\$11.75/Ton	\$217.73
				Total Taxes:	\$330.77
				Total Amount:	\$548.50

Driver: Allen Miller

Deputy Weighmaster: _____
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0083
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5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297	Generator's Site Address (if different than mailing address) LL2, LL3 Sites
Generator's Phone: 330 358-7312	

6. Transporter 1 Company Name The Acme Company	U.S. EPA ID Number None
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7. Transporter 2 Company Name JMW 58	U.S. EPA ID Number
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8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601	U.S. EPA ID Number	State ID 05008
Facility's Phone: 330-823-6220		

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Special Handling Instructions and Additional Information
	No.	Type			
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information Approval # 10-EWS-01
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14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Generator's/Officer's Printed/Typed Name Mark Patterson	Signature <i>Mark Patterson</i>	Month 7	Day 21	Year 10

15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit:	Date leaving U.S.:
Transporter Signature (for exports only):		

16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name Paul Williamson	Signature <i>Paul Williamson</i>	Month 7	Day 21	Year 10
Transporter 2 Printed/Typed Name	Signature	Month 7	Day 21	Year 10

17. Discrepancy
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)	U.S. EPA ID Number
Facility's Phone:	

17c. Signature of Alternate Facility (or Generator) Tracy Wheeler	Month 7	Day 21	Year 10
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18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a				
Printed/Typed Name	Signature	Month 7	Day 21	Year 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184074
Date: 7/21/2010
Time: 14:46:53 - 14:46:58

Scale
Scale 1
P.T.

Gross: 77420 lb
Tare: 34380 lb
Net: 43040 lb

Truck: JMW58
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0003

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.52	ton	\$11.75/Ton	\$252.86
				Total Taxes:	\$384.13
				Total Amount:	\$636.99

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0085
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5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
~~NA~~

7. Transporter 2 Company Name
JMW 14

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **21** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

Transporter Signature (for exports only): _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

Transporter 2 Printed/Typed Name: **Allen Knuth** Signature: *Allen Knuth* Month: **7** Day: **21** Year: **10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

17b. Alternate Facility (or Generator) U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials described by the manifest except as noted in Item 17a

Printed/Typed Name: **Tracy Wheeler** Signature: *Tracy Wheeler* Month: **7** Day: **21** Year: **10**

Deputy Weighmaster

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL :
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184076
Date: 7/21/2010
Time: 14:59:20 - 14:59:26

Truck: JMW14
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking Truck Type: Dump Truck

Scale
Gross: 78280 lb In Scale 1
Tare: 35960 lb P.T.
Net: 42320 lb

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0085

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.16	ton	\$11.75/Ton	\$248.63
				Total Taxes:	\$377.71
				Total Amount:	\$626.34

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0086

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Acme Company (with handwritten '072') U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit WL/Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01.

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's Operator's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 21 Year: 00

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ron Redinger Signature: Ron Redinger Month: 7 Day: 21 Year: 00

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

Discrepancy: Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: U.S. EPA ID Number: Date Facility (or Generator): Month Day Year

Date Facility (or Generator): Month Day Year

Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Signature: Month Day Year

Wheeler Weighmaster Signature: Month Day Year DESIGNATED FACILITY TO GENERATOR

GENERATOR INTL TRANSPORTER

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184077
Date: 7/21/2010
Time: 15:05:50 - 15:05:56

Truck: ACME072
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Scale
Gross: 96000 lb In Scale 1
Tare: 33680 lb P.T.
Net: 62320 lb

Truck Type: coal bucket/ dump tr

Generator: RVNA ARMY/Ravenna Army Am

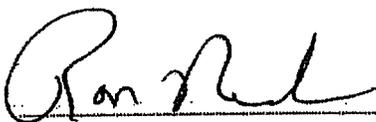
Profile: 10-EWS-01/Contaminated Soi

Manifest: 0086

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	31.16	ton	\$11.75/Ton	\$366.13
				Total Taxes:	\$556.21
				Total Amount:	\$922.34

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of 1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0087

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: 330 358-7312

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The Acme Company 982

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: 330-823-6220

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's Official's Printed/Typed Name: Mark Patterson
Signature: Mark Patterson
Month: 7 Day: 21 Year: 10

15. International Shipments
 Import to U.S. Export from U.S.
Port of entry/exit: _____
Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Bob Lewis
Signature: Bob Lewis
Month: 7 Day: 21 Year: 10

Transporter 2 Printed/Typed Name: _____
Signature: _____
Month: _____ Day: _____ Year: _____

17. Discrepancy

17a. Discrepancy Indication Space
 Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____
Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a.

Printed/Typed Name: Tracy Wheeler, Deputy Warehousemaster
Signature: Tracy Wheeler
Month: 7 Day: 21 Year: 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184079
Date: 7/21/2010
Time: 15:11:26 - 15:11:32

Truck: ACME982
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking

Gross: 80960 lb In Scale
Tare: 30840 lb P.T.
Net: 50120 lb

Truck Type: coal bucket/ dump tr

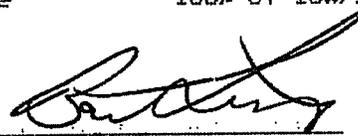
Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0087

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	25.06	ton	\$11.75/Ton	\$294.46
				Total Taxes:	\$447.33
				Total Amount:	\$741.79

Driver: 

Deputy Weighmaster: _____

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST
 1. Generator ID Number: OH5210020736
 2. Page 1 of 1
 3. Emergency Response Phone: 330-720-1061
 4. Waste Tracking Number: 0088

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant
 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Acme Company
 U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: [Blank]
 U.S. EPA ID Number: [Blank]

8. Designated Facility Name and Site Address: Central Waste Inc.
 12003 Oyster Road
 Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: [Blank]
 State ID: 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's Printed/Typed Name: Mark Patterson
 Signature: [Signature]
 Month Day Year: 7/21/10

15. International Shipments: Import to U.S. Export from U.S.
 Port of entry/exit: [Blank]
 Date leaving U.S.: [Blank]

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: D HUGGINS
 Signature: [Signature]
 Month Day Year: 7/21/10
 Transporter 2 Printed/Typed Name: [Blank]
 Signature: [Blank]
 Month Day Year: [Blank]

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: [Blank]
 U.S. EPA ID Number: [Blank]

17b. Alternate Facility (or Generator): [Blank]
 Facility's Phone: [Blank]
 17c. Signature of Alternate Facility (or Generator): [Blank]
 Month Day Year: [Blank]

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
 Printed/Typed Name: Tracy Wheeler
 Signature: [Signature]
 Month Day Year: 7/21/10
 Title: Deputy Weighmaster

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184081
Date: 7/21/2010
Time: 15:18:08 - 15:18:40

Gross: 76860 lb In Scale
Tare: 30660 lb P.T.
Net: 46200 lb

Truck: ACME934
Customer: 0231/Environmental Waste
Carrier: ACME/Acme Trucking Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0088

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.10	ton	\$11.75/Ton	\$271.43
				Total Taxes:	\$412.34
				Total Amount:	\$683.77

Driver:

D. Huggins 518

Deputy Weighmaster:

Tracy Wheeler

RAVENNA AAP - TRUCK LOG

SOIL REMOVAL LL2, LL3

DATE	TRUCK NUMBER/PLATE	MANIFEST NUMBER	SIGNATURE	WEIGHT (tons)
7/22	Patrick # 234	0089	REK	19.53
7/22	Patrick # 225	0090	[Signature]	24.31
7/22	Patrick # 236	0091	Robert [Signature]	19.72
7/22	JMW # 58	0092	[Signature]	24.03
7/22	JMW # 23	0093	Allen [Signature]	22.56
7/22	JMW # 14	0094	[Signature]	23.67
7/22	Patrick # 234	0095	REK	25.43
7/22	Patrick # 225	0096	[Signature]	31.21
7/22	Patrick # 236	0097	Robert [Signature]	23.14
7/22	JMW # 58	0098	[Signature]	23.13
7/22	JMW # 23	0099	Allen [Signature]	22.51
7/22	JMW # 14	0100	[Signature]	23.34
7/22	Patrick # 234	0101	REK	22.46
7/22	Patrick # 225	0102	[Signature]	23.64
7/22	Patrick # 236	0103	Robert [Signature]	20.53
7/22	JMW # 23 23	0104	Allen [Signature]	25.19

RAVENNA AAP - TRUCK LOG

SOIL REMOVAL LL2, LL3

DATE TRUCK MANIFEST SIGNATURE WEIGHT
 NUMBER/PLATE NUMBER (tons)

DATE	TRUCK NUMBER/PLATE	MANIFEST NUMBER	SIGNATURE	WEIGHT (tons)
7/22	JMW# 14	0105	<i>[Signature]</i>	18.86
		LL2		TOTAL - 393.26
7/22	Patrick# 234	0106	<i>[Signature]</i>	20.12
7/22	Patrick# 228	0107	<i>[Signature]</i>	29.09
7/22	Patrick# 236	0108	<i>[Signature]</i>	21.14
7/22	JMW# 23	0109	Allen Miller	19.57
7/22	JMW# 14	0110	<i>[Signature]</i>	24.65
7/22	JMW#	0111	Total	TOTAL - 115.57

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0089
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297			Generator's Site Address (if different than mailing address) LL2, LL3 Sites		
Generator's Phone: 330 358-7312			6. Transporter 1 Company Name The Acme Company		U.S. EPA ID Number N/A
			7. Transporter 2 Company Name Patrick Inc # 234		U.S. EPA ID Number
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601			Facility's Phone: 330-823-6220		U.S. EPA ID Number State ID 05008
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt./Vol.
	1.	Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22
	2.				
	3.				
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Mark Patterson			Signature <i>Mark Patterson</i>		Month Day Year 7 22 10
TRANSPORTER INT'L	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: _____		
	Transporter Signature (for exports only):		Date leaving U.S.: _____		
	16. Transporter Acknowledgment of Receipt of Materials				
TRANSPORTER	Transporter 1 Printed/Typed Name		Signature		Month Day Year
	Transporter 2 Printed/Typed Name Ron C Perich		Signature <i>Ron C Perich</i>		Month Day Year 7 22 10
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____					
DESIGNATED FACILITY	17b. Alternate Facility (or Generator)		U.S. EPA ID Number		
	Facility's Phone:				
	17c. Signature of Alternate Facility (or Generator)		Month Day Year		
18. Designated Facility Owner or Operator Certification: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name Tracy Wheeler Deputy Weighmaster			Signature <i>Tracy Wheeler</i>		Month Day Year 7 22 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Truck#: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truck/Truck Type: Dump Truck

Gross: 67800 lb In Scale 1
Tare: 28740 lb P.T.
Net: 39060 lb

Ticket: 184104
Date: 7/22/2010
Time: 07:53:29 -- 07:53:34

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soil
Manifest: 0009

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
01067/Portage	100% of ISW/INDUSTRIAL SOLID	19.53 ton	\$11.75/Ton	\$229.48
	Total Taxes:			\$348.62
	Total Amount:			\$578.10

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0090

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
~~344~~

7. Transporter 2 Company Name
Patrick 225

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Owner's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **22** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

Transporter 2 Printed/Typed Name: **Randy McFarlane** Signature: *Randy McFarlane* Month: **7** Day: **22** Year: **10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner/Operator Printed/Typed Name: **Tracy Wheeler** Deputy Weighmaster Signature: *Tracy Wheeler* Month: **7** Day: **22** Year: **10**

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

DESIGNATED FACILITY TO GENERATOR

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184106
Date: 7/22/2010
Time: 07:58:01 - 07:58:06

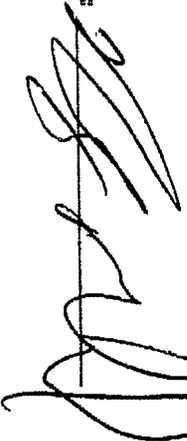
Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick trucking Truck Type: Dump Truck

Gross: 78020 lb In Scale 1
Tare: 29400 lb P.T.
Net: 48620 lb

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi
Manifest: 0090

Comments:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISM INDUSTRIAL SOLID	24.31 ton	\$11.75/Ton	\$285.64
			Total Taxes:	\$433.94
			Total Amount:	\$719.58

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0091

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Acme Company~~ U.S. EPA ID Number: ~~1111~~

7. Transporter 2 Company Name: Patrick Inc. 236 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Operator's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 22 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: ROBERT M. LEIBFORTH Signature: Robert M. Leibforth Month: 7 Day: 22 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Operator Certification of Receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Tracy Wheeler Deputy Weighmaster Signature: Tracy Wheeler Month: 7 Day: 22 Year: 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184109
Date: 7/22/2010
Time: 08:00:17 - 08:14:19

Truck: PATRICK236
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick trucking
Type: Dump Truck

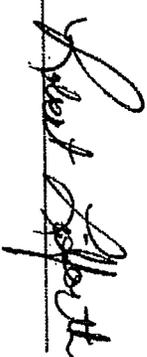
Gross: 67660 lb In Scale 1
Tare: 28220 lb Out Scale 1
Net: 39440 lb

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi

Manifest: 0001

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID.	19.72	ton	\$11.75/Ton	\$231.71
	Total Taxes:				\$352.00
	Total Amount:				\$583.71

Driver: 
Deputy Weighmaster: Tracy Wheeler

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0092

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
JMW

U.S. EPA ID Number
58

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number
State ID 05008

Facility's Phone:
330-823-6220

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil.	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Owner's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **22** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: **Ted Williamson** Signature: *Ted Williamson* Month: _____ Day: _____ Year: _____
Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: **7** Day: **22** Year: **10**

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number: _____

17b. Alternate Facility (or Generator) U.S. EPA ID Number: _____
Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a.
Printed/Typed Name: **Tracy Wheeler** Signature: *Tracy Wheeler* Month: **7** Day: **22** Year: **10**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

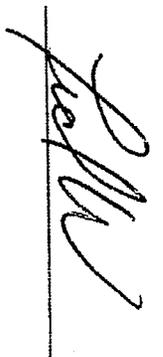
Ticket: 184116
Date: 7/22/2010
Time: 08:31:47 - 08:31:52

Truck: JMW50
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking
Profile: 10-EWS-01/Contaminated Soi
Manfest: 0092

Generator: RUMR ARMY/Ravenna Army Am

Comment:

Origin	Materials & Services	Quantity	Unit	Rate	/Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.03	ton	\$11.75	/Ton	\$282.35
	Total Taxes:					\$428.94
	Total Amount:					\$711.29

Driver:  Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0093
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297 330 358-7312			Generator's Site Address (if different than mailing address) LL2, LL3 Sites		
6. Transporter 1 Company Name The Asmo Company				U.S. EPA ID Number NA4	
7. Transporter 2 Company Name JMW 23				U.S. EPA ID Number	
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601 330-823-6220				U.S. EPA ID Number State ID 05008	
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non RCRA, Non DOT Regulated Soil		01	DT	EST. 22	T
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Owner's Printed/Typed Name Mark Patterson				Signature <i>Mark Patterson</i>	Month Day Year 7 22 10
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Allen Miller				Signature <i>Allen Miller</i>	Month Day Year 7 29 10
Transporter 2 Printed/Typed Name				Signature	Month Day Year 7 28 10
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____					
17b. Alternate Facility (or Generator)				U.S. EPA ID Number	
Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator)				Month Day Year	
18. Designated Facility Owner/Operator: I certify that the materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Tracy Wheeler Deputy Weighmaster				Signature <i>Tracy Wheeler</i>	Month Day Year 7 22 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104119
Date: 7/22/2010
Time: 08:43:18 - 08:44:23

Truck: JMW23
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Gross: 00100 lb In Scale 1
Tare: 35060 lb P.T.
Net: 45120 lb

Profile: 10-EWS-01/Contaminated Soi

Generator: RUNN ARMY/Ravenna Army Am
Comment:

Manifest: 0093

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISM/INDUSTRIAL SOLID	22.56	ton	\$11.75/Ton	\$265.08
				Total Taxes:	\$402.70
				Total Amount:	\$667.78

Driver: Allen Miller Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0094

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Acme Company~~ U.S. EPA ID Number: ~~W44~~

7. Transporter 2 Company Name: JMW 14 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 22 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: Allen Knick Signature: Allen Knick Month: 7 Day: 22 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a.
 Printed/Typed Name: Tracy Wheeler Signature: Tracy Wheeler Month: Day: Year:

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104122
Date: 7/22/2010
Time: 08:55:15 - 08:55:20

Truck: JMW14
Customer: 0231/Environmental Waste
Carrier: JMW/Jmw Trucking

Gross: 83300 lb In Scale 1
Tare: 35960 lb P.T.
Net: 47340 lb

Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Soi

Generator: RUNA ARMY/Ravenna Army Am

Manifest: 0094

Comments:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.67 ton	\$11.75/Ton	\$278.12
			Total Taxes:	\$422.51
			Total Amount:	\$700.63

Driver:  Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0095

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Home Company~~ U.S. EPA ID Number: ~~NR~~

7. Transporter 2 Company Name: Patrick Inc. 234 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 22 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials: Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Ron E Perich Signature: R E P R Month: 7 Day: 22 Year: 10

17. Discrepancy: 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator): Manifest Reference Number: U.S. EPA ID Number:

Facility's Phone: 17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Tracy Wheeler Signature: Tracy Wheeler Month: Day: Year:

GENERATOR
TRANSPORTER INTL
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184135
Date: 7/22/2010
Time: 09:28:49 - 09:28:54

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

Gross: 79600 lb In Scale
Tare: 28740 lb P.T.
Net: 50860 lb

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0095

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	25.43	ton	\$11.75/Ton	\$298.80
				Total Taxes:	\$453.93
				Total Amount:	\$752.73

Driver:

FER

Deputy Weighmaster:

Tracy Wheeler

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0096

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name

The Asme Company

U.S. EPA ID Number

NA

7. Transporter 2 Company Name

Patrick's Inc. 225

U.S. EPA ID Number

8. Designated Facility Name and Site Address

**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
330-823-6220**

U.S. EPA ID Number

State ID 05008

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity

12. Unit
Wt./Vol.

1. **Non RCRA, Non DOT Regulated Soil**

01

DT

**EST.
22**

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

Mark Patterson

Signature

Mark Pat

Month Day Year

7 22 10

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

Tracy Wheeler

18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Deputy Weighmaster

Signature

[Signature]

Month Day Year

7 22 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184139
Date: 7/22/2010
Time: 09:38:19 - 09:38:24

Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckInTruck Type: Dump Truck

Gross: 91820 lb In Scale 1
Tare: 29400 lb P.T.
Net: 62420 lb

Generator: RWNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi

Manifest: 0096

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
0H067/Portage	100% of ISW/INDUSTRIAL SOLID	31.24	ton	\$11.75/Ton	\$366.72
				Total Taxes:	\$557.11
				Total Amount:	\$923.83

Driver: 

Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020735	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0097	
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297		Generator's Site Address (if different than mailing address) LL2, LL3 Sites			
Generator's Phone: 330 358-7312		6. Transporter 1 Company Name The Same Company			
7. Transporter 2 Company Name Patrick Inc. 236		U.S. EPA ID Number NA			
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601		U.S. EPA ID Number State ID 05008			
Facility's Phone: 330-823-6220					
GENERATOR	9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
	1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
	2.				
	3.				
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Mark Patterson		Signature <i>Mark Pat</i>		Month 7	Day 20
				Year 10	
TRANSPORTER	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
	16. Transporter Acknowledgment of Receipt of Materials				
	Transporter 1 Printed/Typed Name		Signature		Month
				Year	
Transporter 2 Printed/Typed Name ROBERT M. LEIBFORTH		Signature <i>Robert M. Leibforth</i>		Month 7	Day 20
				Year 10	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____					
DESIGNATED FACILITY	17b. Alternate Facility (or Generator)			U.S. EPA ID Number	
	Facility's Phone: _____				
	17c. Signature of Alternate Facility (or Generator)			Month	Day
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name Tracy Wheeler		Signature <i>Tracy Wheeler</i>		Month 7	Day 20
				Year 10	

GENERAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104142
Date: 7/22/2010
Time: 09:45:21 - 09:45:44

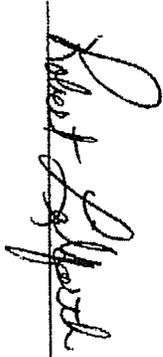
Truck: PATRICK236
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick trucking Truck Type: Dump Truck

Gross: 74500 lb In Scale 1
Tare: 28220 lb P.T.
Net: 46280 lb

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EMS-01/Contaminated Soi
Manifest: 0097

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
04067/Portage	100% of ISM/INDUSTRIAL SOLID	23.14 ton	\$11.75/Ton	\$271.90
			Total Taxes:	\$413.05
			Total Amount:	\$684.95

Driver: 

Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0098
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297		Generator's Site Address (if different than mailing address) LL2, LL3 Sites		
Generator's Phone: 330 358-7312		U.S. EPA ID Number NAK		
6. Transporter 1 Company Name The Acme Company		U.S. EPA ID Number		
7. Transporter 2 Company Name JMW 08		U.S. EPA ID Number		
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601		U.S. EPA ID Number State ID 05008		
Facility's Phone: 330-823-6220				
9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01				
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Generator's Operator's Printed/Typed Name Mark Patterson		Signature <i>Mark Patterson</i>		Month Day Year 7 22 10
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name Red Williamson		Signature <i>Red Williamson</i>		Month Day Year 7 22 10
Transporter 2 Printed/Typed Name		Signature		Month Day Year 7 22 10
17. Discrepancy				
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
Manifest Reference Number: _____ U.S. EPA ID Number _____				
17b. Alternate Facility (or Generator)				
Facility's Phone: _____				
17c. Signature of Alternate Facility (or Generator)				
Month Day Year				
18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a				
Printed/Typed Name Tracy Wheeler Deputy Weighmaster		Signature <i>Tracy Wheeler</i>		Month Day Year 7 22 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104157
Date: 7/22/2010
Time: 10:30:46 - 10:30:52

Truck: JMW50
Customer: 0231/Environmental Waste
Carrier: JMW/Jmw trucking

Gross: 80640 lb In Scale 1
Tare: 34300 lb P.T.
Net: 46260 lb

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0090

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
04067/Portage	100% of ISW/INDUSTRIAL SOLID	23.13	ton	\$11.75/Ton	\$271.70
				Total Taxes:	\$412.88
				Total Amount:	\$684.66

Driver:



Deputy Weighmaster:

Tracy Wheeler

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
1099

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

8. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
None

7. Transporter 2 Company Name
JMW 23

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name **Mark Patterson** Signature *Mark Patterson* Month **7** Day **20** Year **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name **Allen Miller** Signature *Allen Miller* Month **2** Day **22** Year **10**

Transporter 2 Printed/Typed Name _____ Signature _____ Month **7** Day **22** Year **10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____

18. Designated Facility (or Generator) **Tracy Wheeler** Signature *Tracy Wheeler* Month **7** Day **20** Year **10**

Printed/Typed Name **Deputy Weighmaster**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184167
Date: 7/22/2010
Time: 10:46:59 - 10:47:26

Truck: JMW23
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Gross: 00000 lb In Scale 1
Tare: 35060 lb P.T.
Net: 45020 lb

Profile: 10-EMS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0099

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISM/INDUSTRIAL SOLID	22.51	ton	\$11.75/Ton	\$264.49
				Total Taxes:	\$401.81
				Total Amount:	\$666.30

Driver:



Deputy Weighmaster:

Tracy Wheeler

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0100

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Asno Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
JMW 14

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 28 10

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

Transporter Signature (for exports only): _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name _____ Signature _____ Month Day Year _____

Transporter 2 Printed/Typed Name
Allen Enish Signature
Allen Enish Month Day Year
7 28 10

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____

Tracy Wheeler

18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Deputy Weighmaster Signature
[Signature] Month Day Year
7 28 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184170
Date: 7/22/2010
Time: 10:53:23 P.M. 10:53:57

Truck: JPM14
Customer: 0231/Environmental Waste
Carrier: JPM/Jmw trucking

Gross: 02640 lb In Scale 1
Tare: 35960 lb P.T.
Net: 46680 lb

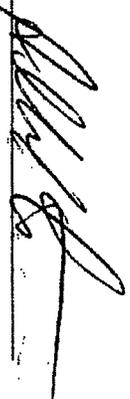
Generator: RUNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0100

Comment:

Origin	Materials & Services	Quantity	Units	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.34	ton	\$11.75/Ton	\$274.25
				Total Taxes:	\$416.62
				Total Amount:	\$690.87

Driver:  Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0101

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: 330 358-7312

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
~~The Acme Company~~

U.S. EPA ID Number
~~***~~

7. Transporter 2 Company Name

Patrick Inc 234

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: 330-823-6220

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description

10. Containers
No. Type

11. Total
Quantity

12. Unit
Wt/Vol.

1. Non RCRA, Non DOT Regulated Soil

01 DT

EST.
22 T

2.

3.

4.

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 22 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:
Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

Ron Perich

Ron Perich

7 22 10

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature
Tracy Wheeler

Month Day Year
7 22 10

DESIGNATED FACILITY TO GENERATOR

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184173
Date: 7/22/2010
Time: 11:05:34 - 11:05:39

Gross: 73660 lb In Scale
Tare: 28740 lb In Scale 1
Net: 44920 lb P.T.

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Generator: RVNA ARMY/Ravenna Army Cmn
Profile: 10-EWS-01/Contaminated Soi
Manifest: 0101

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	22.46	ton	\$11.75/Ton	\$263.91
				Total Taxes:	\$400.92
				Total Amount:	\$664.83

Driver: 

Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0102

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: **330 358-7312**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
Thermo-Loma Company

U.S. EPA ID Number

7. Transporter 2 Company Name
Patrick Inc. 225

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: **330-823-6220**

U.S. EPA ID Number

State ID **05008**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 22 10

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

Transporter Signature (for exports only): _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name _____ Signature _____ Month Day Year _____

Transporter 2 Printed/Typed Name
Randy McFarland Signature *Randy McFarland* Month Day Year **7 22 10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number _____

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____

18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Tracy Wheeler Deputy Waste Manager

Signature
Tracy Wheeler Month Day Year **7 22 10**

GENERATOR
INTL
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 DYSTER RD
ALLIANCE OH, 44601

Ticket: 184175
Date: 7/22/2010
Time: 11:16:01 - 11:16:09

Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckInTruck Type: Dump Truck

Gross: 76680 lb In Scale 1
Tare: 29400 lb P.T.
Net: 47280 lb

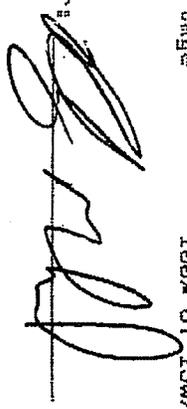
Generator: RUNA ARMY/Ravenna Army Am
Profile: 10-EMS-01/Contaminated Sol

Manifest: 0102

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISM/INDUSTRIAL SOLID	23.64	ton	\$11.75/Ton	\$277.77

Total Taxes: \$421.97
Total Amount: \$699.74

Driver: 

Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0103
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5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297	Generator's Site Address (if different than mailing address) LL2, LL3 Sites
Generator's Phone: 330 358-7312	

6. Transporter 1 Company Name The Acme Company	U.S. EPA ID Number N/A
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7. Transporter 2 Company Name Patrick Inc 236	U.S. EPA ID Number
---	--------------------

8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601	U.S. EPA ID Number	State ID 05008
Facility's Phone: 330-823-6220		

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information Approval # 10-EWS-01 .

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Generator's/Officer's Printed/Typed Name Mark Patterson	Signature <i>Mark Patterson</i>	Month 7	Day 22	Year 10

15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit:
Transporter Signature (for exports only):	Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials	Signature	Month	Day	Year
Transporter 1 Printed/Typed Name				
Transporter 2 Printed/Typed Name ROBERT M. LEIBFORTH	Signature <i>Robert M. Leibforth</i>	Month 7	Day 22	Year 10

17. Discrepancy	17a. Discrepancy Indication Space				
	<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection
	Manifest Reference Number:				

17b. Alternate Facility (or Generator)	U.S. EPA ID Number
Facility's Phone:	

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Signature Tracy Wheeler Printed/Typed Name Deputy Weighmaster	Signature <i>Tracy Wheeler</i>	Month 7	Day 22	Year 10
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CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104170
Date: 7/22/2010
Time: 11:25:09 - 11:25:13

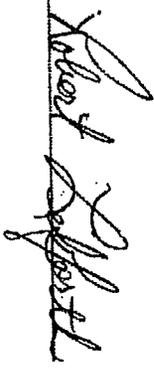
Truck: PATRICK236
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

Gross: 69220 lb In Scale 1
Tare: 20220 lb P.T.
Net: 41060 lb

Generator: RUINO ARMY/Ravenna Army Am
Profile: 10-EMS-01/Contaminated Soi
Manifest: 0103

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	20.53 ton	\$11.75/Ton	\$241.23
			Total Taxes:	\$366.47
			Total Amount:	\$607.70

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
00104

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name

The Home Company

U.S. EPA ID Number

7. Transporter 2 Company Name

JMW 23

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description

10. Containers
No. Type

11. Total Quantity

12. Unit Wt./Vol.

1. **Non RCRA, Non DOT Regulated Soil**

01 DT

EST. 22

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

Mark Patterson

Signature

Mark Patterson

Month Day Year
7 20 10

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Allen Miller

Signature

Allen Miller

Month Day Year
7 28 10

Transporter 2 Printed/Typed Name

Signature

Month Day Year
7 20 10

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Tracy Wheeler

Signature

Tracy Wheeler

Month Day Year
7 20 10

Deputy Weighmaster

DESIGNATED FACILITY TO GENERATOR

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104191
Date: 7/22/2010
Time: 12:41:00 - 12:41:14

Truck: J1W23
Customer: 0231/Environmental Waste
Carrier: J1W/J1W trucking

Profile: 10-EWS-01/Contaminated Soi
Manifest: 0104

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0104

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	25.19	ton	\$11.75/Ton	\$295.98
				Total Taxes:	\$449.64
				Total Amount:	\$745.62

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0105

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Home Company

U.S. EPA ID Number
~~None~~

7. Transporter 2 Company Name
JMW 14

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offero's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **22** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

Transporter 2 Printed/Typed Name: **Allen Raish** Signature: *Allen Raish* Month: **7** Day: **22** Year: **10**

17. Discrepancy Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

17b. Alternate Facility (or Generator) U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner's/Operator's Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: **Tracy Wheeler Deputy Weighmaster** Signature: *Tracy Wheeler* Month: **7** Day: **22** Year: **10**

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104196
Date: 7/22/2010
Time: 12:58:05 - 12:59:07

Truck: JMW14
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Gross: 73680 lb In Scale 1
Tare: 35960 lb P.T.
Net: 37720 lb

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0105

Generator: RVNA ARMY/Ravenna Army Am
Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	19.06	ton	\$11.75/Ton	\$221.61
				Total Taxes:	\$336.66
				Total Amount:	\$558.27

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0106

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: 330 358-7312

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The ~~Isco~~ Company

U.S. EPA ID Number

7. Transporter 2 Company Name
Patrick Inc 234

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: 330-823-6220

U.S. EPA ID Number

State ID 05008

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity

12. Unit
Wt./Vol.

1. Non RCRA, Non DOT Regulated Soil

01

DT

EST.
22

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 22 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

18. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name
Ron Erickson

Signature

Month Day Year
7 22 10

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certified as responsible for all materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Tracy Wheeler
Deputy Weighmaster

Signature

Month Day Year
7 22 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104213
Date: 7/22/2010
Time: 13:49:33 - 13:49:53

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Gross: 70980 lb In Scale
Tare: 28740 lb Scale 1
Net: 42240 lb P.T.

Generator: RVNA ARMY/Ravenna Army Am

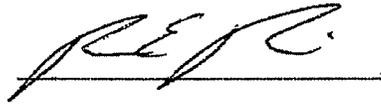
Profile: 10-EWS-01/Contaminated Soi

Manifest: 0106

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
QH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.12	ton	-\$11.75/Ton	\$248.16
				Total Taxes:	\$376.99
				Total Amount:	\$625.15

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0107

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: 330 358-7312

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The Acme Company

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
Patrick Inc. 225

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: 330-823-6220

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description

10. Containers
No. Type

11. Total
Quantity

12. Unit
Wt./Vol.

1. Non RCRA, Non DOT Regulated Soil

01

DT

EST.
22

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Operator's Printed/Typed Name
Mark Patterson

Signature
Mark Patten

Month Day Year
7 22 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name
Randy McFarland

Signature

Month Day Year
7 22 10

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

Tracy Wheeler

18. Designated Facility Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Deputy Wagonmaster

Signature

Month Day Year
7 22 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

Ticket: 104221
Date: 7/22/2010
Time: 14:00:47 - 14:08:52
Gross: 07580 lb In Scale 1
Tare: 29400 lb P.T.
Net: 58180 lb

Generator: RUNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Sol
Manifest: 0107
Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	29.09 ton	\$11.75/Ton	\$341.81
	Total Taxes:			\$519.26
	Total Amount:			\$861.07

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0108

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Acme Company~~ U.S. EPA ID Number: ~~W44~~

7. Transporter 2 Company Name: Patrick Inc. 236 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 22 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: ROBERT M. LEIBFORTH Signature: Robert M. Leibforth Month: 7 Day: 22 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility (Receiver or Operator) Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Tracy Wheeler Deputy Weighmaster Signature: Tracy Wheeler Month: 7 Day: 22 Year: 10

GENERATOR
INTL
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104222
Date: 7/22/2010
Time: 14:15:29 - 14:15:36

Truck: PATRICK236
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truck/Truck Type: Dump Truck

Gross: 70500 lb In Scale 1
Tare: 20220 lb P.T.
Net: 42280 lb

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EMS-01/Contaminated Soil

Manifest: 0100

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISM/INDUSTRIAL SOLID	21.14	ton	\$11.75/Ton	\$248.40
				Total Taxes:	\$377.35
				Total Amount:	\$625.75

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0109

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Lemo Company~~ U.S. EPA ID Number: ~~None~~

7. Transporter 2 Company Name: JMW 23 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 28 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Allen Miller Signature: Allen Miller Month: 7 Day: 22 Year: 10
 Transporter 2 Printed/Typed Name: Signature: Month: 7 Day: 22 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certified by the manifest except as noted in Item 17a
 Printed/Typed Name: Tracy Wheeler Deputy Weighmaster Signature: Tracy Wheeler Month: 7 Day: 22 Year: 10

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184229
Date: 7/22/2010
Time: 14:44:05 - 14:44:11

Scale
Scale 1
P.T.

Gross: 74200 lb
Tare: 35060 lb
Net: 39140 lb

Truck: JMW23
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Truck Type: coal bucket/ dump tr

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0109

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	19.57	ton	\$11.75/Ton	\$229.95
				Total Taxes:	\$349.33
				Total Amount:	\$579.28

Driver: Allen Miller

Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0110

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~Thomson Company~~ U.S. EPA ID Number: ~~Not~~

7. Transporter 2 Company Name: JMW 14 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 20 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials: Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Allen Knish Signature: Allen Knish Month: 7 Day: 22 Year: 10

17. Discrepancy: 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Tracy Wheeler Deputy Weighmaster Signature: Tracy Wheeler Month: 7 Day: 22 Year: 10

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104238
Date: 7/22/2010
Time: 15:09:55 - 15:10:00

Truck: JMW14
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Scale
Gross: 85260 lb In Scale 1
Tare: 35960 lb P.T.
Net: 49300 lb

Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Sol

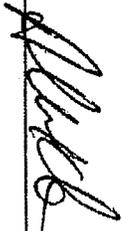
Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0110

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100X of ISW/INDUSTRIAL SOLID	24.65	ton	\$11.75/Ton	\$289.64
				Total Taxes:	\$440.01
				Total Amount:	\$729.65

Drivers:



Deputy Weighmaster:

Tracy Wheeler

RAVENNA AAP - TRUCK LOG

SOIL REMOVAL ~~LL2~~ LL3

DATE	TRUCK NUMBER/PLATE	MANIFEST NUMBER	SIGNATURE	WEIGHT (tons)
7/23	Patrol # 236	0111	Robert M. [Signature]	23.44
7/23	Patrol # 225	0112	[Signature]	26.57
7/23	Patrol # 234	0113	[Signature]	22.73
7/23	Patrol # 233	0114	BAER	19.86
7/23	JMW # 23	0115	Allen Miller	25.41
7/23	JMW # 58	0116	[Signature]	26.85
7/23	JMW # 30	0117	[Signature]	26.89
7/23	JMW # 14	0118	[Signature]	23.57
7/23	Patrol # 236	0119	Robert M. [Signature]	23.59
7/23	Patrol # 225	0120	[Signature]	28.15
7/23	Patrol # 234	0121	[Signature]	25.09
7/23	Patrol # 233	0122	BAER	24.00
7/23	JMW # 23	0123	Allen Miller	19.53
7/23	JMW # 58	0124	[Signature]	24.27
7/23	JMW # 14	0125	[Signature]	23.76
7/23	JMW # 30	0126	[Signature]	26.89

ENVIRONMENTAL WASTE SOLUTIONS LLC

RAVENNA AAP - TRUCK LOG SOIL REMOVAL LL2, LL3

DATE	TRUCK NUMBER/PLATE	MANIFEST NUMBER	SIGNATURE	WEIGHT (tons)
7/23	Patrick # 236	0127	Robert L. Lohr	22.76
7/23	Patrick # 225	0128	[Signature]	26.16
7/23	Patrick # 234	0129	[Signature]	23.87
7/23	Patrick # 233	0130	BARN	22.57
7/23	JMW # 23	0131	Allen Mills	20.60
7/23	JMW # 58	0132	[Signature]	24.18
7/23	JMW # 14	0133	[Signature]	23.37
7/23	JMW # 30	0134	[Signature]	24.10
7/23	Patrick # 236	0135	Robert Lohr	20.80
7/23	Patrick # 225	0136	[Signature]	25.88
7/23	Patrick # 234	0137	[Signature]	20.08
7/23	Patrick # 233	0138	BARN	19.13
7/23	Patrick # 236	0139	Robert Lohr	22.05
7/23	Patrick # 225	0140	[Signature]	24.55
7/23	JMW # 23	0141	Allen Mills	21.68
7/23	JMW # 58	0142	[Signature]	22.97

ENVIRONMENTAL WASTE SOLUTIONS LLC

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0111
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5. Generator's Name and Mailing Address: **Ravenna Army Ammunition Plant**
8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): **LL2, LL3 Sites**
 Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name: **The Home Company** U.S. EPA ID Number: ~~None~~

7. Transporter 2 Company Name: **Patrick, Inc. 236** U.S. EPA ID Number:

8. Designated Facility Name and Site Address: **Central Waste Inc.**
12003 Oyster Road Alliance, OH 44601
 Facility's Phone: **330-823-6220**
 U.S. EPA ID Number: State ID **05008**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information:
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **07** Year: **10**

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials: Transporter Signature (for exports only): Date leaving U.S.:

Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

ROBERT M. LEIBFORTH *Robert M. Leibforth* **7 23 10**

17. Discrepancy: 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: **Tracy Wheeler** Signature: *Tracy Wheeler* Month: **7** Day: **25** Year: **10**
 Deputy Weighmaster

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184257
Date: 7/23/2010
Time: 07:51:22 - 07:51:28

Scale

Gross: 75100 lb In Scale 1
Tare: 28220 lb P.T.
Net: 46880 lb

Truck: PATRICK236
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0111

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
04067/Portage	100% of ISW/INDUSTRIAL SOLID	23.44	ton	\$11.75/Ton	\$275.42
				Total Taxes:	\$418.40
				Total Amount:	\$693.82

Driver: Robert Libforth Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number: OH5210020736 2. Page 1 of 1 3. Emergency Response Phone: 330-720-1061 4. Waste Tracking Number: 0112

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297. Generator's Site Address (if different than mailing address): LL2, LL3 Sites. Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Acme Company~~ U.S. EPA ID Number: ~~111~~

7. Transporter 2 Company Name: Patrick Inc. 225 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601. U.S. EPA ID Number: State ID 05008. Facility's Phone: 330-823-6220

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Generator's/Officer's Printed/Typed Name: Mark Patterson. Signature: Mark Patterson. Month: 7, Day: 23, Year: 10.

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials. Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Randy McFarland. Signature: [Signature]. Month: 7, Day: 23, Year: 10.

17. Discrepancy. 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection. Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number: Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner/Operator: Tracy Wheeler. Signature: [Signature]. Printed/Typed Name: Deputy Weighmaster. Month: 7, Day: 23, Year: 10.

GENERATOR
INTL
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12903 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184259
Date: 7/23/2010
Time: 07:54:31 - 07:54:36

Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckint Truck Type: Dump Truck

Gross: 82540 lb Im Scale
Tare: 29400 lb Im Scale 1
Net: 53140 lb P.T.

Generator: RUMA ARMY/Ravenna Army Am
Profile: 10-ENG-01/Contaminated Soi

Manifest: 0112

Comments:

Origin: Materials & Services Quantity Unit Rate /Unit Amount
OH067/Portage 100% of ISW/INDUSTRIAL SOLID 26.57 ton \$11.75/Ton \$312.20

Total Taxes: \$474.28
Total Amount: \$786.48

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0013

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297, 330 358-7312
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites

6. Transporter 1 Company Name: ~~The Acme Company~~ U.S. EPA ID Number: ~~***~~

7. Transporter 2 Company Name: Patrick Inc 234 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601, 330-823-6220
 Facility's Phone: State ID 05008

B. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Row E Perich Signature: [Signature] Month: 7 Day: 28 Year: 10

17. Discrepancy 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Tracy Wheeler Printed/Typed Name: Deputy Warehouseman Signature: [Signature] Month: 7 Day: 28 Year: 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104264
Date: 7/23/2010
Time: 08:10:55 - 08:11:00

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick trucking
Type: Dump Truck
Gross: 74200 lb In Scale 1
Tare: 28740 lb P.T.
Net: 45460 lb

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi
Manifest: 0113
Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISU/INDUSTRIAL SOLID	22.73	ton	\$11.75/Ton	\$267.08
	Total Taxes:				\$405.74
	Total Amount:				\$672.82

Driver: 
Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0114

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Acme Company~~ U.S. EPA ID Number: ~~None~~

7. Transporter 2 Company Name: Patrick Inc 233 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: [Signature] Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: BAER Signature: [Signature] Month: 7 Day: 23 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:
 17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Tracy Wheeler Signature: [Signature] Month: Day: Year: 7/23/10
 Deputy Warehousemaster

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104269
Date: 7/23/2010
Time: 08:13:10 - 08:27:41

Truck: PATRICK233
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

Scale
Gross: 67920 lb In Scale 1
Tare: 28200 lb Out Scale 1
Net: 39720 lb

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi

Manifest: 0114

Comments:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	19.86 ton	\$11.75/Ton	\$233.36
	Total Taxes:			\$354.51
	Total Amount:			\$587.87

Dispatcher: BACN Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0115

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: 330 358-7312

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
~~The Acme Company~~

U.S. EPA ID Number
~~***~~

7. Transporter 2 Company Name
JMW 23

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: 330-823-6220

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: Mark Patterson
Signature: Mark Patter
Month: 7 Day: 23 Year: 16

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Allen Miller
Signature: Allen Miller
Month: 7 Day: 23 Year: 10

17. Discrepancy
17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator): Manifest Reference Number: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Tracy Wheeler
Signature: Tracy Wheeler
Month: 7 Day: 23 Year: 10

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12803 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184275
Date: 7/23/2010
Time: 08:36:27 - 08:37:14

Truck: JMW23
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Gross: 85000 lb In Scale 1
Tare: 35060 lb P.T.
Net: 50020 lb

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EMS-01/Contaminated Soi
Manifest: 0115
Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	25.41 ton	\$11.75/Ton	\$298.57
			Total Taxes:	\$453.58
			Total Amount:	\$752.15

Delivered: Ally Smith Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
006

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: 330 358-7312
Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
~~The Lane Company~~
U.S. EPA ID Number
~~None~~

7. Transporter 2 Company Name
JMW 5P
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: 330-823-6220
U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Officer's Printed/Typed Name: Mark Patterson
Signature: Mark Patterson
Month: 7, Day: 23, Year: 10

15. International Shipments
 Import to U.S. Export from U.S.
Port of entry/exit:
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter Signature (for exports only):
Signature: [Signature]
Month: 7, Day: 23, Year: 10

17. Discrepancy
17a. Discrepancy Indication Space
 Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number:
U.S. EPA ID Number

17b. Alternate Facility (or Generator)
Facility's Phone:
U.S. EPA ID Number

17c. Signature of Alternate Facility (or Generator)
Month: , Day: , Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a.
Printed/Typed Name: Tracy Wheeler
Signature: [Signature]
Month: 7, Day: 23, Year: 10
Deputy Weighmaster

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRA WASTE INC
CENTRA WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104278
Date: 7/23/2010
Time: 00:53:18 - 00:53:23

Truck: JMW50
Customer: 0231/Environmental Waste
Carrier: JMW/Jmw trucking

Gross: 60020 lb In Scale 1
Tare: 34380 lb P.T.
Net: 53700 lb

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0116

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	26.85 ton	\$11.75/Ton	\$315.49
			Total Taxes:	\$479.20
			Total Amount:	\$794.77

Delivered by:  Deputy Weightmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0117
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297 Generator's Phone: 330 358-7312			Generator's Site Address (if different than mailing address) LL2, LL3 Sites		
6. Transporter 1 Company Name The Stone Company			U.S. EPA ID Number 1111		
7. Transporter 2 Company Name JMW 30			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601 Facility's Phone: 330-823-6220			U.S. EPA ID Number State ID 05008		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non RCRA, Non DOT Regulated Soil		01	DT	EST. 22	T
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Mark Patterson			Signature Mark Patter		Month Day Year 7 23 10
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name			Signature		Month Day Year
Transporter 2 Printed/Typed Name JRM			Signature		Month Day Year 7 23 10
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)					Month Day Year
18. Designated Facility Owner/Operator: Tracy Wheeler Printed/Typed Name Deputy Weighmaster Signature Month Day Year 7 23 10					

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184287
Date: 7/23/2010
Time: 08:55:28 - 09:12:07

Truck: JMW30
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking Truck Type: Dump Truck

Scale
Gross: 88220 lb In Scale 1
Tare: 34440 lb Out Scale 1
Net: 53780 lb

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi
Manifest: 0117

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	26.89	ton	\$11.75/Ton	\$315.96
				Total Taxes:	\$479.99
				Total Amount:	\$795.95

Driver: 

Deputy Weighmaster: _____

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0118
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5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297 Generator's Phone: 330 358-7312	Generator's Site Address (if different than mailing address) LL2, LL3 Sites
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6. Transporter 1 Company Name The Aerm Company	U.S. EPA ID Number NA
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7. Transporter 2 Company Name JMW 14	U.S. EPA ID Number
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8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601 Facility's Phone: 330-823-6220	U.S. EPA ID Number	State ID 05008
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9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit WL/Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information Approval # 10-EWS-01
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14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Generator's/Officer's Printed/Typed Name Mark Patterson	Signature <i>Mark Patterson</i>	Month 7	Day 23	Year 10

15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit:
Transporter Signature (for exports only):	Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials	Signature	Month	Day	Year
Transporter 1 Printed/Typed Name				
Transporter 2 Printed/Typed Name <i>Allen Smith</i>	Signature <i>Allen Smith</i>	Month 7	Day 23	Year 10

17. Discrepancy
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)	U.S. EPA ID Number		
Facility's Phone:			
17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Printed/Typed Name Tracy Wheeler Deputy Weighmaster	Signature <i>Tracy Wheeler</i>	Month 7	Day 23	Year 10
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CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

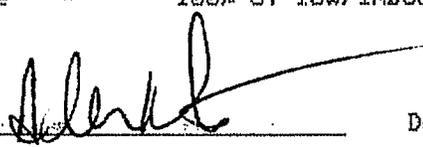
Ticket: 184282
Date: 7/23/2010
Time: 09:01:32 - 09:01:38

Truck: JMW14
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking Truck Type: Dump Truck

Scale
Gross: 82980 lb In Scale 1
Tare: 35960 lb P.T.
Net: 47020 lb

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi
Manifest: 0110
Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.51	ton	\$11.75/Ton	\$276.24
				Total Taxes:	\$419.66
				Total Amount:	\$695.90

Driver: 

Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0119

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: 330 358-7312

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
~~The Home Company~~

U.S. EPA ID Number
~~444~~

7. Transporter 2 Company Name
Patrick Inc. 236

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: 330-823-6220

U.S. EPA ID Number

State ID 05008

9. Waste Shipping Name and Description

10. Containers

11. Total
Quantity

12. Unit
Wt./Vol.

1. Non RCRA, Non DOT Regulated Soil

No. 01

Type DT

EST.
22

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Owner's Printed/Typed Name
Mark Patterson

Signature
Mark Patte

Month Day Year
7 23 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name
ROBERT M. LEIBFORTH

Signature

Robert M. Leibforth

Month Day Year
7 23 10

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Tracy Wheeler

Signature

Tracy Wheeler

Month Day Year
12 23 10

CENTRAL WASTE INC.
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104293
Date: 7/23/2010
Time: 09:34:57 - 09:35:24

Truck: PATRICK236
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

Gross: 75400 lb In Scale 1
Tare: 20220 lb P.T.
Net: 47180 lb

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi

Manifest: 0119

Comments:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.59 ton	\$11.75/Ton	\$277.18
	Total Taxes:			\$421.08
	Total Amount:			\$698.26

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

OH5210020736

2. Page 1 of

1

3. Emergency Response Phone

330-720-1061

4. Waste Tracking Number

0120

5. Generator's Name and Mailing Address

Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
330 358-7312

Generator's Site Address (if different than mailing address)

LL2, LL3 Sites

Generator's Phone:

6. Transporter 1 Company Name

~~The Love Company~~

U.S. EPA ID Number

~~None~~

7. Transporter 2 Company Name

Patrick Inc. 228

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
330-823-6220

U.S. EPA ID Number

State ID 05008

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1. Non RCRA, Non DOT Regulated Soil

01

DT

EST.
22

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Owner's Printed/Typed Name

Mark Patterson

Signature

Mark Paterson

Month Day Year

7 23 10

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Randy Starnand

Signature

Randy Starnand

Month Day Year

7 23 10

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Rejected Materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Wheeler
Deputy Weighmaster

Signature

Wheeler

Month Day Year

7 23 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12063 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184294
Date: 7/23/2010
Time: 09:30:06 - 09:30:37

Scale
Scale 1
P.T.

Gross: 85700 lb In
Tare: 29400 lb
Net: 56300 lb

Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Soi

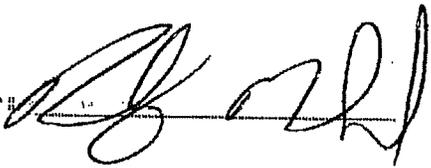
Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0120

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
0M067/Portage	100% of ISW/INDUSTRIAL SOLID	28.15	ton	\$11.75/Ton	\$330.76
				Total Taxes:	\$502.48
				Total Amount:	\$833.24

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
00121

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
~~The Aona Company~~

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
Patrick Inc 234

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

Facility's Phone: **330-823-6220**

State ID **05008**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Vt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 23 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Signature
Month Day Year

Transporter 2 Printed/Typed Name
Row E Perich
Signature
R E Perich
Month Day Year
7 23 10

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator Certified by this manifest covered by the manifest except as noted in Item 17a

Printed/Typed Name
**Tracy Wheeler
Deputy Weighmaster**

Signature
Tracy Wheeler

Month Day Year
7 23 10

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184296
Date: 7/23/2010
Time: 09:54:11 - 09:54:17

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

Gross: 78920 1b In Scale 1
Tare: 28740 1b P.T.
Net: 50180 1b

Generator: RUINA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi
Manifest: 0121

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISM/INDUSTRIAL SOLID	25.09 ton	\$11.75/Ton	\$294.81
	Total Taxes:			\$447.06
	Total Amount:			\$742.67

Driver: 

Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0122

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297. Generator's Site Address (if different than mailing address): LL2, LL3 Sites. Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Auto Company~~ U.S. EPA ID Number: ~~111~~

7. Transporter 2 Company Name: Patrick's Inc. 233 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601. U.S. EPA ID Number: State ID 05008. Facility's Phone: 330-823-6220

8. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit WL/Vol.	
	No.	Type			
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: [Signature] Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials. Transporter Signature (for exports only): Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: ED BAUER Signature: [Signature] Month: 7 Day: 23 Year: 10

17. Discrepancy. 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection. Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a. Printed/Typed Name: Tracy Wheeler Deputy Weighmaster Signature: [Signature] Month: 7 Day: 23 Year: 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104299
Date: 7/23/2010
Time: 09:50:48 - 09:59:48

Truck: PATRICK233
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Gross: 76600 lb In Scale
Tare: 28200 lb Scale 1
Net: 48400 lb P.T.

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi
Manifest: 0122
Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.20	ton	\$11.75/Ton	\$284.35
				Total Taxes:	\$431.97
				Total Amount:	\$716.32

Driver: BALN Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

OH5210020736

2. Page 1 of

1

3. Emergency Response Phone

330-720-1061

4. Waste Tracking Number

0123

5. Generator's Name and Mailing Address

Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297

Generator's Site Address (if different than mailing address)

LL2, LL3 Sites

Generator's Phone:

330 358-7312

6. Transporter 1 Company Name

~~The Acme Company~~

U.S. EPA ID Number

~~***~~

7. Transporter 2 Company Name

JMW 23

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
330-823-6220

U.S. EPA ID Number

State ID 05008

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1. Non RCRA, Non DOT Regulated Soil

01

DT

EST.
22

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

Mark Patterson

Signature

Mark Patten

Month Day Year

7 23 10

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Tracy Wheeler
Deputy Weighmaster

Signature

Tracy Wheeler

Month Day Year

7 23 10

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184313
Date: 7/23/2010
Time: 10:35:57 - 10:36:31

Truck: JMW23
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking
Profile: 10-EWS-01/Contaminated Soi
Truck Type: coal bucket/ dump tr

Gross: 74120 lb In Scale
Tare: 35060 lb In Scale
Net: 39060 lb P.T.

Generator: RVNA ARMY/Ravenna Army Am
Manifest: 0123
Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
01067/Portage	100% of ISW/INDUSTRIAL SOLID	19.53	ton	\$11.75/Ton	\$229.48
	Total Taxes:				\$348.62
	Total Amount:				\$578.10

Drivers: Walter Wheeler Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0124

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The Aero Company

U.S. EPA ID Number
4444

7. Transporter 2 Company Name
JMW 58

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **23** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

Transporter 2 Printed/Typed Name: **Ted Williamson** Signature: *Ted Williamson* Month: **7** Day: **23** Year: **10**

17. Discrepancy Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number: _____

Facility's Phone: _____ 17c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: **Tracy Wheeler** Signature: *Tracy Wheeler* Month: **7** Day: **23** Year: **10**
Deputy Weighmaster

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184315
Date: 7/23/2010
Time: 10:44:49 - 10:45:29

Truck: JMW58
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Gross: 82920 lb In Scale 1
Tare: 34380 lb P.T.
Net: 48540 lb

Profile: 10-EWS-01/Contaminated Soil

Generator: RVNA ARMY/Ravenna Army Am
Comments:

Manifest: 0124

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.27 ton	\$11.75/Ton	\$285.17
			Total Taxes:	\$433.22
			Total Amount:	\$718.39

Driver:  Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0125
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5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
The ~~Love~~ Company

U.S. EPA ID Number
Not

7. Transporter 2 Company Name
JMW 14

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Special Handling Instructions and Additional Information
	No.	Type			
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **23** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

Transporter Signature (for exports only): _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

Transporter 2 Printed/Typed Name: *Allen Kusch* Signature: *Allen Kusch* Month: **7** Day: **23** Year: **10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: **Tracy Wheeler** covered by the manifest except as noted in item 17a

Printed/Typed Name: **Deputy Weighmaster** Signature: *Tracy Wheeler* Month: **7** Day: **23** Year: **10**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184319
Date: 7/23/2010
Time: 10:55:52 - 10:55:58

Truck: JMW14
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking Truck Type: Dump Truck

Scale
Gross: 83460 lb In Scale 1
Tare: 35960 lb P.T.
Net: 47500 lb

Generator: RWNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Sol
Manifest: 0125

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.75 ton	\$11.75/Ton	\$279.06
			Total Taxes:	\$423.94
			Total Amount:	\$703.00

Driver:  Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0126

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Home Company~~ U.S. EPA ID Number: ~~4444~~

7. Transporter 2 Company Name: JM W 30 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: 7 Day: 23 Year: 10
 Transporter 2 Printed/Typed Name: Signature:

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:
 17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a.
 Printed/Typed Name: Tracy Wheeler Signature: Month: Day: Year:

CENTRAL WASTE INC
GENERAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184320
Date: 7/23/2010
Time: 10:57:40 - 10:57:54

Truck: JHM30
Customer: 0231/Environmental Waste
Carrier: JHM/jmw trucking

Gross: 70260 lb Im Scale 1
Tare: 34480 lb P.T.
Net: 43780 lb

Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Sol

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0126

Comments:

Origin	Materials & Services	Quantity	Unit	Rate	Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.89	ton	\$11.75/Ton		\$257.21
				Total Taxes:		\$390.74
				Total Amount:		\$647.95

Driver:  Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0127

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Lane Company~~ U.S. EPA ID Number: ~~None~~

7. Transporter 2 Company Name: Patrick Inc. 236 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601 U.S. EPA ID Number:
 State ID 05008
 Facility's Phone: 330-823-6220

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: ROBERT M. LEIBFORTH Signature: Robert M. Leibforth Month: 7 Day: 23 Year: 10

17. Discrepancy 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Tracy Wheeler Signature: Tracy Wheeler Month: 7 Day: 23 Year: 10
 Deputy Weighmaster

GENERATOR

INT'L TRANSPORTER

DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE, OH, 44601

Ticket: 184320
Date: 7/23/2010
Time: 11:16:21 - 11:16:59

Truck: PATRICK236
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truck/InTruck Type: Dump Truck

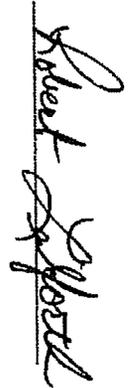
Gross: 73740 lb Im Scale 1
Tare: 20220 lb P.T.
Net: 45520 lb

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi
Manifest: 0127

Comment:

Origin: Materials & Services
Quantity Unit Rate /Unit Amount
OH067/Portage 100% of ISW/INDUSTRIAL SOLID 22.76 ton \$11.75/Ton \$267.43

Total Taxes: \$406.27
Total Amount: \$673.70

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST
 1. Generator ID Number: OH5210020736
 2. Page 1 of 1
 3. Emergency Response Phone: 330-720-1061
 4. Waste Tracking Number: 0128

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant
 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Lane Company~~
 U.S. EPA ID Number: ~~144~~

7. Transporter 2 Company Name: Patrick Inc 225
 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc.
 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number:
 State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA; Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information:
 Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Operator's Printed/Typed Name: Mark Patterson
 Signature: Mark Patterson
 Month Day Year: 7/23/10

15. International Shipments: Import to U.S. Export from U.S.
 Port of entry/exit:
 Transporter Signature (for exports only):
 Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Ron McFarland
 Signature: [Signature]
 Month Day Year: 7/23/10
 Transporter 2 Printed/Typed Name:
 Signature:
 Month Day Year:

17. Discrepancy:
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator):
 U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator):
 Month Day Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Tracy Wheeler
 Signature: [Signature]
 Month Day Year: 7/23/10
 Deputy Warehouse

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC.
CENTRAL WASTE LANDFILL
12003 OYSTER RD
MILLANCE OH, 44601

Ticket: 104330

Date: 7/23/2010

Time: 11:21:10 - 11:21:15

Gross: 01720 lb In Scale 1
Tare: 29400 lb P.T.
Net: 52320 lb

Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick trucking Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Sol

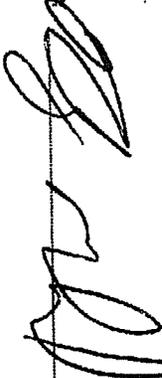
Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0120

Comments:

Origin	Materials & Services	Quantity	Unit	Rate	/Unit	Amount
OH067/Portage	100% of ISM/INDUSTRIAL SOLID	26.16	ton	\$11.75	/Ton	\$307.38
						Total Taxes: \$466.96
						Total Amount: \$774.34

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0129

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297, 330 358-7312
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites

6. Transporter 1 Company Name: ~~The Asco Company~~ U.S. EPA ID Number: ~~3114~~

7. Transporter 2 Company Name: *Patrick Inc. 234* U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601, 330-823-6220
 Facility's Phone: U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: *Mark Patterson* Signature: *Mark Patterson* Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials: Transporter Signature (for exports only):

Transporter 1 Printed/Typed Name: *Row E Perrich* Signature: *[Signature]* Month: 7 Day: 23 Year: 10

17. Discrepancy: 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: *Tracy Wheeler* *Deputy Weighmaster* Signature: *[Signature]* Month: Day: Year: 7 23 10

GENERATOR
INTL
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104336
Date: 7/23/2010
Time: 11:36:57 - 11:37:26

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

Gross: 76400 lb In Scale
Tare: 28740 lb P.T.
Net: 47740 lb

Generator: RUNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi
Manifest: 0129
Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.87	ton	\$11.75/Ton	\$280.47
Total Taxes:					\$426.08
Total Amount:					\$706.55

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST
 1. Generator ID Number: OH5210020736
 2. Page 1 of 1
 3. Emergency Response Phone: 330-720-1061
 4. Waste Tracking Number: U130

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant
 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Love Company~~
 U.S. EPA ID Number: ~~U130~~

7. Transporter 2 Company Name: Patrick 233
 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc.
 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number:
 State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
 Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson
 Signature: Mark Patte
 Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S.
 Port of entry/exit:
 Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____
 Transporter 2 Printed/Typed Name: ED BAER Signature: _____ Month: 7 Day: 23 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator): _____ U.S. EPA ID Number: _____
 Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator): _____ Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

GENERATOR
INTL
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE-INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket#: 184338
Date: 7/23/2010
Time: 11:41:53 - 11:42:10

Truck: PATRICK233
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

Gross: 73340 lb In Scale 1
Tare: 28220 lb P.T.
Net: 45140 lb

Generator: BWNA ARMY/Ravenna Army Am
Manifest: 0130

Comment:

Profile: 10-EWS-01/Contaminated Sol

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	22.57	ton	\$11.75/Ton	\$265.20
				Total Taxes:	\$402.00
				Total Amount:	\$668.00

Driver: BAER

Deputy weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0631

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
330 358-7312

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone:

6. Transporter 1 Company Name
~~The Home Company~~

U.S. EPA ID Number
N/A

7. Transporter 2 Company Name
JMW

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
330-823-6220

U.S. EPA ID Number

State ID 05008

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1. Non RCRA, Non DOT Regulated Soil

01

DT

EST.
22

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

Mark Patterson

Signature

Mark Patterson

Month Day Year

7 23 10

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Allen Miller

Signature

Allen Miller

Month Day Year

7 23 10

17. Discrepancy

17a. Discrepancy Indication Space Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator
Printed/Typed Name
Tracy Wheeler
Deputy Weighmaster

Signature

Tracy Wheeler

Month Day Year

7 23 10

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

Ticket: 184360
 Date: 7/23/2010
 Time: 13:18:20 - 13:18:25
 GENERAL WASTE INC
 GENERAL WASTE LANDFILL
 12003 OYSTER RD
 ALLIANCE OH, 44601

Truck#: JMW23
 Customer: 0231/Environmental Waste
 Carrier: JMW/jmw trucking
 Profile: 10-EMS-01/Contaminated Soi
 Gross: 76260 lb In Scale 1
 Tare: 35060 lb P.T.
 Net: 41200 lb

Generator: RUINA ARMY/Ravenna Army Am
 Manifest: 0131

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	20.60 ton	\$11.75/Ton	\$242.05
Total Taxes:				\$367.71
Total Amount:				\$609.76

Driver: *Allen Miller*
 Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number: OH5210020736 2. Page 1 of 1 3. Emergency Response Phone: 330-720-1061 4. Waste Tracking Number: 0132

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The same company~~ U.S. EPA ID Number: ~~1111~~

7. Transporter 2 Company Name: JMW 58 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: Signature: Month: Day: Year: 7 23 10

17. Discrepancy: 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a.
 Printed/Typed Name: Tracy Wheeler Signature: Month: Day: Year: 7 23 10
 Deputy Weighmaster

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104362
Date: 7/23/2010
Time: 13:23:36 - 13:23:41

Truck: JMW58
Customer: 0231/Environmental Waste
Carrier: JMW/Jmw trucking
Truck Type: coal bucket/ dump tr

Gross: 82740 lb In Scale 1
Tare: 34380 lb P.T.
Net: 48360 lb

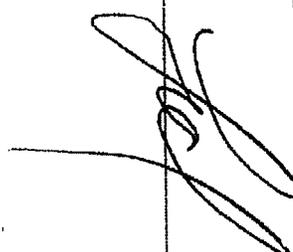
Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soil

Manifest: 0132

Comments:

Origin	Materials & Services	Quantity/Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.18 ton	\$11.75/Ton	\$284.12
			Total Taxes:	\$431.62
			Total Amount:	\$715.74

Delivery #

Deputy Wellmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0133

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Lane Company~~ U.S. EPA ID Number: ~~***~~

7. Transporter 2 Company Name: JMW 14 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601 U.S. EPA ID Number:
 Facility's Phone: 330-823-6220 State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Owner's Printed/Typed Name: Mark Patterson Signature: *Mark Patterson* Month: 7 Day: 29 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials: Transporter Signature (for exports only):

Transporter 1 Printed/Typed Name: Signature: *Alvin Knish* Month: 7 Day: 23 Year: 10

Transporter 2 Printed/Typed Name: Signature: *Alvin Knish* Month: 7 Day: 23 Year: 10

17. Discrepancy: 17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Tracy Wheeler covered by the manifest except as noted in Item 17a

Printed/Typed Name: Deputy Weighmaster Signature: *Tracy Wheeler* Month: Day: Year: 7 23 10

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

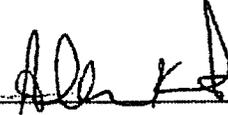
Ticket: 184364
Date: 7/23/2010
Time: 13:29:48 - 13:29:54

Gross: 62700 lb In Scale 1
Tare: 35960 lb P.T.
Net: 46740 lb

Truck: JMW14
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking Truck Type: Dump Truck

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi
Manifest: 0133
Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.37	ton	\$11.75/Ton	\$274.60
				Total Taxes:	\$417.16
				Total Amount:	\$691.76

Drivers: 

Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0134
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5. Generator's Name and Mailing Address: **Ravenna Army Ammunition Plant**
8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Phone: **330 358-7312**

Generator's Site Address (if different than mailing address): **LL2, LL3 Sites**

6. Transporter 1 Company Name: **The Leno Company** U.S. EPA ID Number: **EPA**

7. Transporter 2 Company Name: **JMW 30** U.S. EPA ID Number:

8. Designated Facility Name and Site Address: **Central Waste Inc.**
12003 Oyster Road
Alliance, OH 44601
 Facility's Phone: **330-823-6220**

U.S. EPA ID Number: _____
 State ID: **05008**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit WL/Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patte* Month: **7** Day: **23** Year: **10**

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

Transporter 2 Printed/Typed Name: *FRANK* Signature: *[Signature]* Month: **7** Day: **23** Year: **10**

17. Discrepancy

17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator): _____ U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator): _____ Month: _____ Day: _____ Year: _____

18. Designated Facility Owner: **Tracy Wheeler** Signature: *[Signature]* Month: **7** Day: **23** Year: **10**

Printed/Typed Name: **Deputy Weighmaster**

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184374
Date: 7/23/2010
Time: 13:48:19 - 13:48:24

Truck: JMU30
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Gross: 82680 lb In Scale 1
Tare: 34480 lb P.T.
Net: 48200 lb

Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Soil

Generator: RUNA ARMY/Ravenna Army Am

Manifest: 0134

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	24.10	ton	\$11.75/Ton	\$283.18
				Total Taxes:	\$430.19
				Total Amount:	\$713.37

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020735 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0135

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Term Company U.S. EPA ID Number: N/A

7. Transporter 2 Company Name: Patrick Inc. 236 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601 U.S. EPA ID Number:
 Facility's Phone: 330-823-6220 State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials: Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: ROBERT M. LEIBFORTH Signature: Robert M Leibforth Month: 7 Day: 23 Year: 10

17. Discrepancy: 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator): Manifest Reference Number: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Facility's Phone: Month: Day: Year:

18. Designated Facility: Tracy Wheeler Signature: Deputy Weighmaster Month: 7 Day: 23 Year: 10

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184352
Date: 7/23/2010
Time: 13:00:27 - 13:01:07

Truck: PATRICK236
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Gross: 69820 lb In Scale
Tares: 28220 lb Scale 1
Net: 41600 lb P.T.

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0135

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	20.80 ton	\$11.75/Ton	\$244.40
			Total Taxes:	\$371.28
			Total Amount:	\$615.68

Driver:

Robert L. Gilbert

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0136

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Ace Company~~ U.S. EPA ID Number: ~~1234~~

7. Transporter 2 Company Name: Patrick Inc. 225 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Owner's Printed/Typed Name: Mark Patterson Signature: *Mark Patterson* Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials: Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: *Randy Mitchell* Signature: *Randy Mitchell* Month: 7 Day: 23 Year: 10

17. Discrepancy: 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Tracy Wheeler, Deputy Weighmaster Signature: *Tracy Wheeler* Month: 7 Day: 23 Year: 10

GENERATOR
TRANSPORTER INTL
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

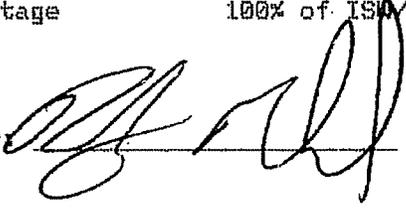
Ticket: 104354
Date: 7/23/2010
Time: 13:04:01 - 13:04:58

Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Scale
Gross: 01160 lb In Scale 1
Tare: 29400 lb P.T.
Net: 51760 lb

Profile: 10-EWS-01/Contaminated Soi
Generator: RVNA ARMY/Ravenna Army Am
Manifest: 0136
Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISO INDUSTRIAL SOLID	25.00	ton	\$11.75/Ton	\$304.09
				Total Taxes:	\$461.96
				Total Amount:	\$766.05

Driver: 

Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0139

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Jones Company~~ U.S. EPA ID Number: ~~***~~

7. Transporter 2 Company Name: Patrick Inc 234 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601 U.S. EPA ID Number: State ID 05008
 Facility's Phone: 330-823-6220

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Part of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter Signature (for exports only):
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Row E Perich Signature: R.E.P. Month: 7 Day: 23 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Tracy Wheeler
 Printed/Typed Name: Signature: Month: Day: Year:

18. Designated Facility Owner or Operator: Tracy Wheeler
 Printed/Typed Name: Signature: Month: Day: Year:

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184365
Date: 7/23/2010
Time: 13:31:40 - 13:31:45

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

Gross: 60900 lb In Scale
Tare: 26740 lb In Scale 1
Net: 40160 lb P.T.

Generator: RUNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi
Manifest: 0137

Comment:

Origin	Materials & Services	Quantity/Unit	Rate /Unit	Amount
OH067/Portage	100% of ISM/INDUSTRIAL SOLID	20.08 ton	\$11.75/Ton	\$235.94
			Total Taxes:	\$358.43
			Total Amount:	\$594.37

#Driver:



Deputy Weighmaster: #
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0038

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone:
330 358-7312

6. Transporter 1 Company Name
~~Plainsboro Company~~

U.S. EPA ID Number
None

7. Transporter 2 Company Name
Patrick Inc. 233

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone:
330-823-6220

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	Remarks
	No.	Type			
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01.

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson**
Signature: *Mark Patterson*
Month: **7** Day: **27** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____
Transporter Signature (for exports only): _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

Transporter 2 Printed/Typed Name: **Ed Ball** Signature: *Ed Ball* Month: **7** Day: **23** Year: **10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

17b. Alternate Facility (or Generator) U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator Certification: I certify the materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: **Tracy Wheeler** Signature: *Tracy Wheeler* Month: **8** Day: **25** Year: **10**
Deputy Warehousemaster

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket#: 184369
Date: 7/23/2010
Time: 13:28:22 - 13:39:07

Truck: PATRICK233
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

Gross: 66460 lb In Scale
Tare: 28200 lb P.T.
Net: 38260 lb

Generator: RUINA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi
Manifest: 0130

Comments:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	19.13 ton	\$11.75/Ton	\$224.78
	Total Taxes:			\$341.48
	Total Amount:			\$566.26

Driver: BAL Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 00139
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5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297 Generator's Phone: 330 358-7312		Generator's Site Address (if different than mailing address) LL2, LL3 Sites	
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6. Transporter 1 Company Name The Arms Company	U.S. EPA ID Number 1234
--	---------------------------------------

7. Transporter 2 Company Name Patrick Inc 236	U.S. EPA ID Number
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8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601 Facility's Phone: 330-823-6220		U.S. EPA ID Number	State ID 05008
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8. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information Approval # 10-EWS-01
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14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Generator's/Officer's Printed/Typed Name Mark Patterson	Signature Mark Patten	Month 7	Day 23	Year 10

15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
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16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Transporter 2 Printed/Typed Name ROBERT M. LEIBFORTH	Signature Robert M. Leibforth	Month 7	Day 23	Year 10

17. Discrepancy					
17a. Discrepancy Indication Space	<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection

17b. Alternate Facility (or Generator)	Manifest Reference Number:	U.S. EPA ID Number	
Facility's Phone:			
17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner/Operator Certification: I certify the information covered by the manifest except as noted in Item 17a				
Printed/Typed Name Tracy Wheeler Deputy Wightmaster	Signature	Month 7	Day 23	Year 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 DYSTER RD
MILLICENT OH, 44601

Ticket: 104387
Date: 7/23/2010
Time: 14:47:36 - 14:47:41

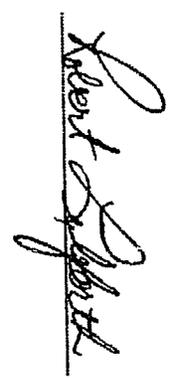
Truck: PATRICK236
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truck/truck Type: Dump Truck

Gross: 72320 lb In Scale 1
Tare: 20220 lb P.T.
Net: 44100 lb

Generator: RWNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Sol
Manifest: 0139

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
0H067/Portage	100% of ISW/INDUSTRIAL SOLID	22.05	ton	\$11.75/Ton	\$259.09
				Total Taxes:	\$393.60
				Total Amount:	\$652.69

Driver:  Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 00140

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Lane Company~~ U.S. EPA ID Number: ~~1144~~

7. Transporter 2 Company Name: *Patrick 225* U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: *Mark Patte* Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: *Randy McFarland* Signature: *[Signature]* Month: 7 Day: 23 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Tracy Wheeler
 Printed/Typed Name: Deputy Weighmaster Signature: *[Signature]* Month: Day: Year: 10

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC.
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104388
Date: 7/23/2010
Time: 14:50:51 - 14:51:02

Truck: PATRICK225
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

Gross: 78500 lb In Scale
Tare: 29400 lb P.T.
Net: 49100 lb

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EMS-01/Contaminated Soi
Manifest: 0140
Comment: #

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
0H067/Portage	100% of ISM/INDUSTRIAL SOLID	24.55	ton	\$11.75/Ton	\$288.46
				Total Taxes:	\$438.22
				Total Amount:	\$726.68

Driver:  Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number DH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0141
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5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Phone: **330 358-7312**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
~~The Arco Company~~

U.S. EPA ID Number
~~None~~

7. Transporter 2 Company Name
JMW 23

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
 Facility's Phone: **330-823-6220**

U.S. EPA ID Number

State ID **05008**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name **Mark Patterson** Signature **Mark Patte** Month **7** Day **23** Year **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

Transporter Signature (for exports only): _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

Transporter 2 Printed/Typed Name **Allen Miller** Signature **Allen Miller** Month **7** Day **23** Year **10**

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name **Tracy Wheeler** Signature **Tracy Wheeler** Month **7** Day **23** Year **10**

Deputy Weighmaster

GENERATOR
 INTL
 TRANSPORTER
 DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLEGANCE OH, 44601

Ticket: 104391

Date: 7/23/2010
Time: 15:17:23 - 15:17:28

Truck: JMW23
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Gross: 70420 lb In Scale 1
Tare: 35060 lb P.T.
Net: 43360 lb

Generator: RONIA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi
Manifest: 0141

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.68	ton	\$11.75/Ton	\$254.74
				Total Taxes:	\$386.99
				Total Amount:	\$641.73

Driver: Alben Wheeler Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST
 1. Generator ID Number: OH5210020736
 2. Page 1 of 1
 3. Emergency Response Phone: 330-720-1061
 4. Waste Tracking Number: 00412

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant
 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Phone: 330 358-7312
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites

6. Transporter 1 Company Name: ~~The Home Company~~
 U.S. EPA ID Number: ~~XXXX~~

7. Transporter 2 Company Name: JMW 58
 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc.
 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: Mark Patterson
 Signature: *Mark Patterson*
 Month: 7, Day: 23, Year: 10

15. International Shipments: Import to U.S. Export from U.S.
 Port of entry/exit: _____
 Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: _____
 Signature: _____
 Month: _____, Day: _____, Year: _____

Transporter 2 Printed/Typed Name: _____
 Signature: _____
 Month: 7, Day: 23, Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator): _____
 Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator): _____
 Month: _____, Day: _____, Year: _____

18. Designated Facility Owner or Operator, Certified by the manifest except as noted in Item 17a
 Printed/Typed Name: Tracy Wheeler
 Signature: *Tracy Wheeler*
 Deputy Weighmaster
 Month: 7, Day: 23, Year: 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104392
Date: 7/23/2010
Time: 15:19:14 - 15:19:19

Gross: 80320 lb In Scale 1
Tare: 34380 lb P.T.
Net: 45940 lb

Truck #: JMW58
Customer: 0231/Environmental Waste
Carrier: JMW/Jmw trucking

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0142

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	22.97	ton	\$11.75/Ton	\$269.90
				Total Taxes:	\$410.02
				Total Amount:	\$679.92

Driver: 

Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0143

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Lone Company~~ U.S. EPA ID Number: ~~None~~

7. Transporter 2 Company Name: JMW 14 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: *Mark Patterson* Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: *Arthur Knott* Signature: *Arthur Knott* Month: 7 Day: 23 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:
 17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Tracy Wheeler
 Printed/Typed Name: Deputy Warehouseman Signature: *Tracy Wheeler* Month: 7 Day: 23 Year: 10

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket#: 104394
Date: 7/23/2010
Time: 15:22:40 - 15:23:09

Trucks: JMW14
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking
Truck Type: Dump Truck

Gross: 02220 lb In Scale
Tare: 35960 lb R.T.
Net: 46260 lb

Generator: RVNA ARMY/Ravenna Army Am
Manifest#: 0143
Profile: 10-EMS-01/Contaminated Sol
Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.13	ton	\$11.75/Ton	\$271.70
				Total Taxes:	\$412.02
				Total Amount:	\$684.66

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number: OH5210020736 2. Page 1 of 1 3. Emergency Response Phone: 330-720-1061 4. Waste Tracking Number: 0144

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Lane Company~~ PATRICK 234 U.S. EPA ID Number: ~~4444~~

7. Transporter 2 Company Name: PATRICK 234 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601 U.S. EPA ID Number:
 Facility's Phone: 330-823-6220 State ID 05008

B. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Owner's Printed/Typed Name: Mark Patterson Signature: *Mark Patterson* Month: 7 Day: 23 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter Signature (for exports only):
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Ron Sperlich Signature: *Ron Sperlich* Month: 7 Day: 29 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in item 17a.
 Printed/Typed Name: Tracy Wheeler Signature: *Tracy Wheeler* Month: Day: Year:

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12903 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104395
Date: 7/23/2010
Time: 15:25:22 - 15:25:27

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truck in Truck Type: Dump Truck

Gross: 72220 lb In Scale
Tare: 28740 lb P.T.
Net: 43480 lb

Generator: RWNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi
Manifest: 0144

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
0H067/Portage	100% of ISM/INDUSTRIAL SOLID	21.74	ton	\$11.75/Ton	\$255.45
				Total Taxes:	\$388.06
				Total Amount:	\$643.51

Driver:  Deputy Weighmaster:
Tracy Wheeler

RAVENNA AAP - TRUCK LOG

SOIL REMOVAL LL2, LL3

DATE	TRUCK NUMBER/PLATE	MANIFEST NUMBER	SIGNATURE	WEIGHT (tons)	
7/26	Patrick # 236	0145	Robert Zappert	26.31	+
7/26	Patrick # 230	0146	JOHN WILSON	22.71	+
7/26	Patrick # 234	0147	RJR	21.19	+
7/26	Patrick/JAG # 19	0148	CJ	26.32	+
7/26	JMW # 58	0149	John	28.40	+
7/26	JMW # 67	0150	Mike Wall	25.24	+
7/26	JMW # 23	0151	Allen Milby	23.02	+
7/26	JMW # 14	0152	John	25.66	+
7/26	Patrick # 234	0153	RJR	22.35	+
7/26	Patrick # 230	0154	J. WILSON	22.35	+
7/26	Patrick # 236	0155	Robert Zappert	18.84	+
7/26	Patrick/JAG # 19	0156	CJ	22.81	+
7/26	JMW # 58	0157	John	25.11	+
7/26	JMW # 23	0158	Allen Milby	22.41	+
7/26	JMW # 14	0159	John	25.91	+
7/26	JMW # 67	0160	Mike Wall	27.76	+

ENVIRONMENTAL WASTE SOLUTIONS LLC

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number: OH5210020736 2. Page 1 of 1 3. Emergency Response Phone: 330-720-1061 4. Waste Tracking Number: 0145

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Acme Company U.S. EPA ID Number: ~~None~~

7. Transporter 2 Company Name: Patrick Inc. 236 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 26 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: ROBERT M. LEIBFORTH Signature: Robert M. Leibforth Month: 7 Day: 26 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a.
 Printed/Typed Name: Tracy Wheeler Signature: Tracy Wheeler Month: 7 Day: 26 Year: 10
 Deputy Weighmaster

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184446
Date: 7/26/2010
Time: 08:12:56 - 08:13:02

Truck: PATRICK236
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Scale
Gross: 70040 lb In Scale 1
Tare: 20220 lb P.T.
Net: 42620 lb

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soi
Manifest: 0145

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.31	ton	\$11.75/Ton	\$250.39
				Total Taxes:	\$300.39
				Total Amount:	\$630.78

Driver: Robert Zepher Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
DH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0146

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
The Trow Company

U.S. EPA ID Number
None

7. Transporter 2 Company Name
Patrick Inc. 230

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number
State ID 05008

Facility's Phone:
330-823-6220

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patte* Month: **7** Day: **26** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
Transporter 2 Printed/Typed Name: **JOHN WILSON** Signature: *John Wilson* Month: **7** Day: **26** Year: **10**

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator. Certificate covers all materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: **Tracy Wheeler Deputy Warehousemaster** Signature: *Tracy Wheeler* Month: **7** Day: **26** Year: **10**

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Truck: PATRICK230
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Sol

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0146

Comments:

Origin: Materials & Services Quantity Unit: Rate /Unit Amount

04067/Portage 100% of ISM/INDUSTRIAL SOLID 23.71 ton \$11.75/Ton \$278.59
Total Taxes: \$423.23
Total Amount: \$701.82

Driver:  Deputy Weighmaster:

Tracy Wheeler

Ticket: 18449

Date: 7/26/2010

Time: 08:03:42 - 08:23:49

Gross: 81860 lb In Scale 1
Tare: 34440 lb Out Scale 1
Net: 47420 lb

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0147			
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297		Generator's Site Address (if different than mailing address) LL2, LL3 Sites					
Generator's Phone: 330 358-7312							
6. Transporter 1 Company Name The Lowe Company			U.S. EPA ID Number W44				
7. Transporter 2 Company Name Patrick Inc. 234			U.S. EPA ID Number				
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601			U.S. EPA ID Number				
Facility's Phone: 330-823-6220			State ID 05008				
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
	1. Non RCRA, Non DOT Regulated Soil		01	DT	EST. 22	T	
	2.						
	3.						
4.							
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01							
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Generator's/Officer's Printed/Typed Name Mark Patterson					Signature <i>Mark Patt</i>		
					Month 7	Day 26	
					Year 00		
TRANSPORTER INT'L	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	16. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name					Signature	Month Day Year
	Transporter 2 Printed/Typed Name Ron E Peroch					Signature <i>R Peroch</i>	Month Day Year 7 26 00
DESIGNATED FACILITY	17. Discrepancy						
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Manifest Reference Number:						
	17b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:							
17c. Signature of Alternate Facility (or Generator)					Month	Day Year	
18. Designated Facility Owner or Operator: Certified Person or Operator of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name Tracy Wheeler					Signature <i>Tracy Wheeler</i>		
Deputy Weighmaster					Month 7	Day 26	
					Year 00		

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184445
Date: 7/26/2010
Time: 08:00:43 - 08:01:13

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Gross: 71120 lb In Scale
Tare: 28740 lb P.T.
Net: 42380 lb

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0147

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.19	ton	\$11.75/Ton	\$248.98
				Total Taxes:	\$378.24
				Total Amount:	\$627.22

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of **1**
3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0148

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: **330 358-7312**
Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
~~Thomson Company~~
U.S. EPA ID Number
None

7. Transporter 2 Company Name
Patrick Inc. / JAG Tracking 19
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: **330-823-6220**
U.S. EPA ID Number
State ID **05008**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson
Signature
Mark Patterson
Month Day Year
7 26 10

15. International Shipments Import to U.S. Export from U.S. Part of entry/exit: _____
Transporter Signature (for exports only): _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name _____ Signature _____ Month Day Year _____
Transporter 2 Printed/Typed Name
CHARI CLAPLIN
Signature
a
Month Day Year
7 26 10

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ U.S. EPA ID Number _____
Facility's Phone: _____
17c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name
Tracy Wheeler
Signature
Tracy Wheeler
Month Day Year
7 26 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184454
Date: 7/26/2010
Time: 08:36:45 - 08:53:29

Truck: JAG19
Customer: 0231/Environmental Waste
Carrier: JAG/J.a.g trucking

Gross: 01860 1b In Scale 1
Tare: 29220 1b Out Scale 1
Net: 52640 1b

Truck Type: Dump Truck

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0148

Comments:

Origin	Materials & Services	Quantity/Unit	Rate /Unit	Amount
04067/Portage	100% of ISW/INDUSTRIAL SOLID	26.32 ton	\$11.75/Ton	\$309.26
			Total Taxes:	\$469.81
			Total Amount:	\$779.07

Driver:  Deputy Weighmaster: Tracy Wheeler

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0149

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone:
330 358-7312

6. Transporter 1 Company Name
The Home Company

U.S. EPA ID Number
Not

7. Transporter 2 Company Name
JMW 58

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
330-823-6220**

U.S. EPA ID Number
State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Patterson* Month: **7** Day: **26** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

Transporter 2 Printed/Typed Name: *Fred Williamson* Signature: *Fred Williamson* Month: **7** Day: **26** Year: **10**

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator)
Facility's Phone: _____ U.S. EPA ID Number: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator (Facility Name as shown by the manifest except as noted in Item 17a)
Printed/Typed Name: **Tracy Wheeler** Signature: *Tracy Wheeler* Deputy Weighmaster Month: **7** Day: **26** Year: **10**

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104460
Date: 7/26/2010
Time: 09:01:13 - 09:01:48

Truck: JMW50
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking
Truck Type: coal bucket/ dump tr
Gross: 90460 lb In Scale 1
Tare: 34380 lb P.T.
Net: 56080 lb

Generator: RUNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi
Manifest: 0149

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	28.04	ton	\$11.75/Ton	\$329.47
	Total Taxes:				\$500.51
	Total Amount:				\$829.98

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0150		
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297			Generator's Site Address (if different than mailing address) LL2, LL3 Sites				
Generator's Phone: 330 358-7312			U.S. EPA ID Number None				
6. Transporter 1 Company Name The Asse Company			U.S. EPA ID Number				
7. Transporter 2 Company Name JMW 67			U.S. EPA ID Number				
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601			U.S. EPA ID Number				
Facility's Phone: 330-823-6220			State ID 05008				
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
	1.	Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T	
	2.						
	3.						
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01							
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Generator's Name/Printed/Typed Name Mark Patterson			Signature <i>Mark Patte</i>		Month 7	Day 26	Year 10
INT'L	15. International Shipments		Port of entry/exit:		Date leaving U.S.:		
	<input type="checkbox"/> Import to U.S.	<input type="checkbox"/> Export from U.S.					
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials		Signature		Month	Day	Year
	Transporter 1 Printed/Typed Name						
	Transporter 2 Printed/Typed Name Mike Wallace		Signature <i>Mike Wallace</i>		Month 7	Day 26	Year 10
17. Discrepancy							
17a. Discrepancy Indication Space							
<input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
DESIGNATED FACILITY	17b. Alternate Facility (or Generator)		U.S. EPA ID Number				
	Facility's Phone:						
	17c. Signature of Alternate Facility (or Generator)		Signature		Month	Day	Year
18. Designated Facility Owner or Operator Printed/Typed Name Tracy Wheeler Deputy Weighmaster		Signature <i>Tracy Wheeler</i>		Month 7	Day 26	Year 10	

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184468
Date: 7/26/2010
Time: 09:03:20 - 09:43:37

Truck: JMW67
Customer: 0231/Environmental Waste
Carrier: JMW/Jmw trucking
Truck Type: WALKING FLOOR

Gross: 04220 1b In Scale 1
Tare: 33740 1b Out Scale 1
Net: 50480 1b

Generator: RUNA ARMY/Kavenna Army Am
Profile: 10-EWS-01/Contaminated Sol
Manifest: 0150
Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
0M067/Portage	100% of ISW/INDUSTRIAL SOLID	25.24	ton	\$11.75/Ton	\$296.57
				Total Taxes:	\$450.53
				Total Amount:	\$747.10

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0157

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Atsco Company~~ U.S. EPA ID Number: ~~ALA~~

7. Transporter 2 Company Name: JMW 23 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Operator's Printed/Typed Name: Mark Patterson Signature: *Mark Patterson* Month: 7 Day: 26 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Allen Miller Signature: *Allen Miller* Month: 7 Day: 26 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator): Manifest Reference Number: U.S. EPA ID Number: Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Tracy Wheeler
 Printed/Typed Name: Deputy Weighmaster Signature: *Tracy Wheeler* Month: 7 Day: 26 Year: 10

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184461
Date: 7/26/2010
Time: 09:04:38 - 09:05:25

Truck: JMW23
Customer: 0231/Environmental Waste
Carrier: JMW/Jmw trucking
Profile: 10-EMS-01/Contaminated Sol
Truck Type: coal bucket/ dump tr

Gross: 01100 1b In Scale 1
Tare: 35060 1b P.T.
Net: 46040 1b

Generator: RUNA ARMY/Ravenna Army Am
Manifest: 0151
Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
010000/Portage	1000 of TML/INDUSTRIAL SOLID	11.75	Ton	\$270.49	\$3175.13
				Total Taxes:	\$410.91
				Total Amount:	\$3586.04

Driver: Allen Miller Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0152	
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297			Generator's Site Address (if different than mailing address) LL2, LL3 Sites			
Generator's Phone: 330 358-7312		6. Transporter 1 Company Name The Don Company				
		U.S. EPA ID Number ***				
7. Transporter 2 Company Name JMW 14		U.S. EPA ID Number				
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601		U.S. EPA ID Number				
Facility's Phone: 330-823-6220		State ID 05008				
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	
			No.	Type	12. Unit Wt./Vol.	
	1. Non RCRA, Non DOT Regulated Soil		01	DT	EST. 22	T
	2.					
	3.					
4.						
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Generator's/Officer's Printed/Typed Name Mark Patterson		Signature <i>Mark Patte</i>		Month 7	Day 26	
				Year 10		
TRANSPORTER INTL	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____					
	Transporter Signature (for exports only): _____ Date leaving U.S.: _____					
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials					
	Transporter 1 Printed/Typed Name		Signature		Month 7	
				Day 26	Year 10	
Transporter 2 Printed/Typed Name Allen Krish		Signature <i>Allen Krish</i>		Month 7	Day 26	
				Year 10		
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____						
DESIGNATED FACILITY	17b. Alternate Facility (or Generator)				U.S. EPA ID Number	
	Facility's Phone: _____					
	17c. Signature of Alternate Facility (or Generator)				Month 7	
				Day 26	Year 10	
18. Designated Facility Owner or Operator. Certify in receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name Wheeler Deputy Weighmaster		Signature <i>Wheeler</i>		Month 7	Day 26	
				Year 10		

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184462
Date: 7/26/2010
Time: 09:08:41 - 09:09:23

Scale

Gross: 87280 lb In Scale 1
Tare: 35960 lb P.T.
Net: 51320 lb

Truck: JMW14
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking Truck Type: Dump Truck

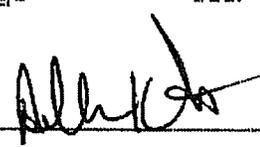
Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am

Manifest: 0152

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	25.66	ton	\$11.75/Ton	\$301.51
				Total Taxes:	\$458.04
				Total Amount:	\$759.55

Driver: 

Deputy Weighmaster: _____

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0153

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: The Aoms Company U.S. EPA ID Number: ~~W-11~~

7. Transporter 2 Company Name: Patrick Inc. 234 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: *Mark Patterson* Month: 7 Day: 26 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials: Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Ron E Perich Signature: *R. Perich* Month: 7 Day: 26 Year: 10

17. Discrepancy: 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
 Printed/Typed Name: Tracy Wheeler Signature: *Tracy Wheeler* Month: 7 Day: 26 Year: 10
 Deputy Waighmaster

CENTRALE WASTE INC
CENTRALE WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket#: 184471
Date: 7/26/2010
Time: 09:49:41 - 09:50:09

Truck: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick trucking Truck Type: Dump Truck

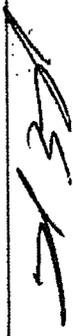
Gross: 73440 lb In Scale 1
Tare: 28740 lb
Net: 44700 lb

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Sol

Manifest: 0153

Comment:

Origin	Materials & Services	Quantity Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	22.35 ton	\$11.75/Ton	\$262.61
	Total Taxes:			\$398.95
	Total Amount:			\$661.56

Driver:  Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0154

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: 330 358-7312

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
~~The Home Company~~

U.S. EPA ID Number
~~W-1~~

7. Transporter 2 Company Name
Patrick Inc. 230

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: 330-823-6220

U.S. EPA ID Number

State ID 05008

9. Waste Shipping Name and Description

10. Containers

11. Total
Quantity

12. Unit
Wt./Vol.

1. Non RCRA, Non DOT Regulated Soil

No. 01

Type DT

EST.
22

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 26 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name
JOHN WILSON

Signature
John Wilson

Month Day Year
7 26 10

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Tracy Wheeler

Signature
Tracy Wheeler

Month Day Year
7 26 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
122023 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184472
Date: 7/26/2010
Time: 09:58:18 - 09:59:08

Truck: PATRICK230
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckint Truck Type: Dump Truck

Gross: 79140 lb In Scale 1
Tare: 34440 lb P.T.
Net: 44700 lb

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EMS-01/Contaminated Sol

Manifest: 0154

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
0H067/Portage	100% of ISW/INDUSTRIAL SOLID	22.35	ton	\$11.75/Ton	\$262.61
				Total Taxes:	\$398.95
				Total Amount:	\$661.56

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0455

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
~~The Home Company~~

U.S. EPA ID Number
~~4574~~

7. Transporter 2 Company Name
Patrick Inc. 236

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: **Mark Patterson** Signature: *Mark Pat* Month: **7** Day: **26** Year: **10**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

Transporter 2 Printed/Typed Name: **ROBERT M. LEIBFORTH** Signature: *Robert M. Leibforth* Month: **7** Day: **26** Year: **10**

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number: _____ U.S. EPA ID Number: _____

17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number: _____
Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator. Confirmation of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: **Tracy Wheeler** Signature: *Tracy Wheeler* Deputy Weighmaster Month: **7** Day: **26** Year: **10**

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184478
Date: 7/26/2010
Time: 10:08:01 - 10:08:27

Truck: PATRICK236
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truck
Type: Dump Truck

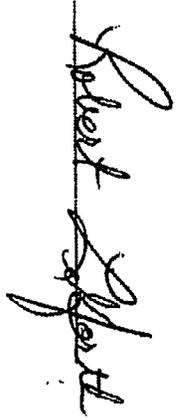
Gross: 65900 lb In Scale 1
Tare: 28220 lb P.T.
Net: 37680 lb

Generator: RVNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Sol

Manifest: 0155

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	10.84	ton	\$11.75/Ton	\$221.37
				Total Taxes:	\$336.29
				Total Amount:	\$557.66

Driver:  Deputy Weighmaster:
Tracy Wheeler

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0156

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone: **330 358-7312**

6. Transporter 1 Company Name
~~Phillips Company~~

U.S. EPA ID Number
~~11111~~

7. Transporter 2 Company Name
Patrick, Inc / JAG 19

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone: **330-823-6220**

9. Waste Shipping Name and Description

10. Containers

11. Total
Quantity

12. Unit
Wt./Vol.

1. **Non RCRA, Non DOT Regulated Soil**

01

DT

**EST.
22**

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name
Mark Patterson

Signature
Mark Patterson

Month Day Year
7 26 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name
CHARL CLARLIN

Signature
Charl Clarlin

Month Day Year
7 26 10

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Tracy Wheeler

Signature
Tracy Wheeler

Month Day Year
7 26 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104409
Date: 7/26/2010
Time: 10:40:44 - 10:41:15

Truck: JAG19
Customer: 0231/Environmental Waste
Carrier: JAG/J.a.g Trucking
Truck Type: Dump Truck

Gross: 74040 lb In Scale 1
Tare: 29220 lb P.T.
Net: 45620 lb

Generators: RUNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi

Manifest: 0156

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	22.01	ton	\$11.75/Ton	\$268.02
				Total Taxes:	\$407.17
				Total Amount:	\$675.19

Driver:  Deputy Weighmaster: Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0157

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Amco Company~~ U.S. EPA ID Number: ~~12345~~

7. Transporter 2 Company Name: JMW 58 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: *Mark Patterson* Month: 7 Day: 26 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Signature: *John A. ...* Month: 7 Day: 26 Year: 10

17. Discrepancy 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator): Manifest Reference Number: U.S. EPA ID Number:

Facility's Phone: 17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator, Certified Representative of materials covered by the manifest except as noted in Item 17a: Tracy Wheeler

Printed/Typed Name: Deputy Regional Manager Signature: *Tracy Wheeler* Month: 7 Day: 26 Year: 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184498
Date: 7/26/2010
Time: 11:19:58 - 11:20:06

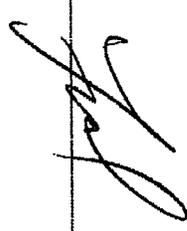
Truck: JMW50
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Gross: 84600 lb In Scale 1
Tare: 34380 lb P.T.
Net: 50220 lb

Generator: RUNA ARMY/Ravenna Army Am
Profile: 10-EMS-01/Contaminated Sol
Manifest: 0157

Comment:

Origin	Materials & Services	Quantity	Unit	Rate	/Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	25.11	ton	\$11.75	/Ton	\$295.04
						Total Taxes: \$448.22
						Total Amount: \$743.26

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number 0H5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0158

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Lane Company~~ U.S. EPA ID Number: ~~1144~~

7. Transporter 2 Company Name: JMW 23 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's Name/Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 26 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: Allen Miller Signature: Allen Miller Month: 7 Day: 26 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Tracy Wheeler Signature: Tracy Wheeler Month: 7 Day: 26 Year: 10
 Deputy Weighmaster

GENERAL WASTE INC
GENERAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket#: 184499
Date: 7/26/2010
Time: 11:23:24 - 11:24:07

Trucks: JMW23
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking

Gross: 79000 lb In Scale 1
Tare: 35060 lb P.T.
Net: 44020 lb

Profile: 10-EWS-01/Contaminated Soi

Generator: RVNA ARMY/Ravenna Army Am
Comment:

Manifest: 0150

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
DH067/Portage	100% of ISW/INDUSTRIAL SOLID	22.41	ton	\$11.75/Ton	\$263.32
	Total Taxes:				\$400.03
	Total Amount:				\$663.35

Driver: Alan Smith Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
0159

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297
Generator's Phone: 330 358-7312

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

6. Transporter 1 Company Name
~~The Acme Company~~

U.S. EPA ID Number
~~None~~

7. Transporter 2 Company Name
JMW 14

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601
Facility's Phone: 330-823-6220

U.S. EPA ID Number

State ID 05008

9. Waste Shipping Name and Description

10. Containers

11. Total
Quantity

12. Unit
Wt/Vol.

1. Non RCRA, Non DOT Regulated Soil

No. 01

Type DT

EST.
22

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

Signature

Month Day Year

Mark Patterson

Mark Patterson

7 26 10

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Tracy Wheeler

Tracy Wheeler

7 26 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184502
Date: 7/26/2010
Time: 11:32:53 - 11:33:57

Truck: JMW14
Customer: 0231/Environmental Waste
Carrier: JMW/jmw trucking Truck Type: Dump Truck

Gross: 87780 lb In Scale
Tare: 35960 lb Scale 1
Net: 51820 lb P.T.

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0159

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	25.91	ton	\$11.75/Ton	\$304.44
				Total Taxes:	\$462.50
				Total Amount:	\$766.94

Driver: 

Deputy Weighmaster: _____

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number OH5210020736	2. Page 1 of 1	3. Emergency Response Phone 330-720-1061	4. Waste Tracking Number 0160
5. Generator's Name and Mailing Address Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266-9297			Generator's Site Address (if different than mailing address) LL2, LL3 Sites		
Generator's Phone: 330 358-7312			U.S. EPA ID Number None		
6. Transporter 1 Company Name Thomson Company			U.S. EPA ID Number		
7. Transporter 2 Company Name JMW 67			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Central Waste Inc. 12003 Oyster Road Alliance, OH 44601			U.S. EPA ID Number State ID 05008		
Facility's Phone: 330-823-6220					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1.	Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Approval # 10-EWS-01					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Mark Patterson			Signature <i>Mark Patterson</i>		Month Day Year 7 26 10
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Mike Wallace			Signature <i>Mike Wallace</i>		Month Day Year 7 26 10
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____ U.S. EPA ID Number _____					
17b. Alternate Facility (or Generator) Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator) Tracy Wheeler Month Day Year _____					
18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name _____ Signature <i>[Signature]</i> Month Day Year 7 26 10					

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104517
Date: 7/26/2010
Time: 12:04:01 - 12:04:49

Truck: JMW67
Customer: 0281/Environmental Waste
Carrier: JMW/jmw trucking Truck Type: WALKING FLOOR

Gross: 09200 lb In Scale
Tare: 33760 lb P.T.
Net: 55520 lb Scale

Generator: RVNA ARMY/Ravenna Army Am Profile: 10-EWS-01/Contaminated Soli

Manifest: 0160

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
0H067/Portage	100% of ISW/INDUSTRIAL SOLID	27.76	ton	\$11.75/Ton	\$326.18
				Total Taxes:	\$495.52
				Total Amount:	\$821.70

Driver: Mike Wheeler Deputy Weighmaster: _____
Tracy Wheeler

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
OH5210020736

2. Page 1 of
1

3. Emergency Response Phone
330-720-1061

4. Waste Tracking Number
761

5. Generator's Name and Mailing Address
**Ravenna Army Ammunition Plant
8451 State Route 5 Ravenna, OH 44266-9297**

Generator's Site Address (if different than mailing address)
LL2, LL3 Sites

Generator's Phone:
330 358-7312

6. Transporter 1 Company Name

~~Tire Service Company~~

U.S. EPA ID Number

None

7. Transporter 2 Company Name

Patrick Inc. 234

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**Central Waste Inc.
12003 Oyster Road
Alliance, OH 44601**

U.S. EPA ID Number

State ID **05008**

Facility's Phone:
330-823-6220

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity

12. Unit
Wt./Vol.

1. **Non RCRA, Non DOT Regulated Soil**

01

DT

**EST.
22**

T

13. Special Handling Instructions and Additional Information

Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

Mark Patterson

Signature

Mark Patterson

Month Day Year
7 26 10

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Ross Eperich

Signature

Ross Eperich

Month Day Year
7 26 10

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Tracy Wheeler

Signature

Tracy Wheeler

Month Day Year
7 26 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184511
Date: 7/26/2010
Time: 11:47:33 - 11:47:50

Truck#: PATRICK234
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Gross: 72160 lb In Scale 1
Tare: 28740 lb P.T.
Net: 43420 lb

Generator: RUMS ARMY/Ravenna Army Am Profile: 10-EMS-01/Contaminated Soi

Manifest: 0161

Comment:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
CH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.71	ton	\$11.75/Ton	\$255.09
	Total Taxes:				\$307.53
	Total Amount:				\$642.62

Driver:



Deputy Weighmaster:

Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0162

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Acme Company~~ U.S. EPA ID Number: ~~NYR~~

7. Transporter 2 Company Name: Patrick Inc 230 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 26 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: JOHN WILSON Signature: John Wilson Month: 7 Day: 26 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Official's Printed/Typed Name: Tracy Wheeler Deputy Weighmaster Signature: Tracy Wheeler Month: 7 Day: 26 Year: 10

DESIGNATED FACILITY TO GENERATOR

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184515
Date: 7/26/2010
Time: 11:58:40 - 11:59:20

Truck: PATRICK230
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Gross: 78240 lb In Scale
Tare: 34440 lb P.T.
Net: 43800 lb

Generator: RVNA ARMY/Ravenna Army Am

Profile: 10-EWS-01/Contaminated Soi

Manifest: 0162

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.90	ton	\$11.75/Ton	\$257.33
				Total Taxes:	\$390.92
				Total Amount:	\$648.25

Driver: JOHN WILSON Deputy Weighmaster: _____
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0163

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Lane Company~~ U.S. EPA ID Number: ~~None~~

7. Transporter 2 Company Name: *Patrick Inc* U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offor's Printed/Typed Name: *Mark Patterson* Signature: *Mark Patterson* Month: 7 Day: 26 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: *ROBERT M. LEIBFORTH* Signature: *Robert M. Leibforth* Month: 7 Day: 26 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone: U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
 Printed/Typed Name: *Deputy Warehouse* Signature: *[Signature]* Month: 7 Day: 26 Year: 10

GENERATOR
INTL
TRANSPORTER
DESIGNATED FACILITY

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket#: 104519
Date: 7/26/2010
Time: 12:07:56 - 12:08:36

Truck: PATRICK236
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckinTruck Type: Dump Truck

Gross: 65780 lb In Scale 1
Tare: 28220 lb P.T.
Net: 37560 lb

Generator: KUMA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Soi
Manifest: 0163

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	18.78	ton	\$11.75/Ton	\$220.67
				Total Taxes:	\$335.23
				Total Amount:	\$555.90

Driver:  Deputy weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number 0H5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0164

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Acme Company~~ U.S. EPA ID Number: ~~N/A~~

7. Transporter 2 Company Name: Patrick Inc / JAG 19 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road Alliance, OH 44601 U.S. EPA ID Number: State ID 05008
 Facility's Phone: 330-823-6220

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 26 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: CHARI CHAPLIN Signature: Month: 7 Day: 26 Year: 10

17. Discrepancy

17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: U.S. EPA ID Number:

17b. Alternate Facility (or Generator): Facility's Phone:

17c. Signature of Alternate Facility (or Generator): Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Tracy Wheeler Signature: Month: 7 Day: 26 Year: 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 104527
Date: 7/26/2010
Time: 12:45:14 - 12:45:19

Truck: JAG19
Customer: 0231/Environmental Waste
Carrier: JAG/j.a.g trucking Truck Type: Dump Truck

Gross: 77120 lb In Scale 1
Tare: 29220 lb P.T.
Net: 47900 lb

Generator: ROMMA ARMY/Ravenna Army Am Profile: 10-EMS-01/Contaminated Soi
Manifest: 0164

Comments:

Origin	Materials & Services	Quantity	Unit	Rate /Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	23.95	ton	\$11.75/Ton	\$281.41
	Total Taxes:				\$427.51
	Total Amount:				\$708.92

Driver:  Deputy Weighmaster:
Tracy Wheeler

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number OH5210020736 2. Page 1 of 1 3. Emergency Response Phone 330-720-1061 4. Waste Tracking Number 0165

5. Generator's Name and Mailing Address: Ravenna Army Ammunition Plant, 8451 State Route 5 Ravenna, OH 44266-9297
 Generator's Site Address (if different than mailing address): LL2, LL3 Sites
 Generator's Phone: 330 358-7312

6. Transporter 1 Company Name: ~~The Home Company~~ U.S. EPA ID Number: ~~HA~~

7. Transporter 2 Company Name: Patrick Inc. 236 U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Central Waste Inc., 12003 Oyster Road, Alliance, OH 44601
 Facility's Phone: 330-823-6220
 U.S. EPA ID Number: State ID 05008

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non RCRA, Non DOT Regulated Soil	01	DT	EST. 22	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Approval # 10-EWS-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Officer's Printed/Typed Name: Mark Patterson Signature: Mark Patterson Month: 7 Day: 26 Year: 10

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
 Transporter 2 Printed/Typed Name: ROBERT M. LEIBFORTH Signature: Robert M. Leibforth Month: 7 Day: 26 Year: 10

17. Discrepancy
 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: Tracy Wheeler
 Printed/Typed Name: Deputy Weighmaster Signature: Tracy Wheeler Month: 7 Day: 26 Year: 10

CENTRAL WASTE INC
CENTRAL WASTE LANDFILL
12003 OYSTER RD
ALLIANCE OH, 44601

Ticket: 184551
Date: 7/26/2010
Time: 14:09:07 - 14:09:13

Truck: PATRICK236
Customer: 0231/Environmental Waste
Carrier: PATRICK/patrick truckin Truck Type: Dump Truck

Gross: 70440 lb In Scale 1
Tare: 28220 lb P.T.
Net: 42220 lb

Generator: RUNA ARMY/Ravenna Army Am
Profile: 10-EWS-01/Contaminated Sol
-Manifest: 0125
Comment:

Origin	Materials & Services	Quantity	Unit	Rate	/Unit	Amount
OH067/Portage	100% of ISW/INDUSTRIAL SOLID	21.11	ton	\$11.75/Ton		\$248.04
	Total Taxes:					\$376.02
	Total Amount:					\$624.06

Driver: Robert Wheeler Deputy Weighmaster:
Tracy Wheeler

APPENDIX I
Inspection Forms (SWP3)

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

To be completed every 7 days and within 24 hours of a rainfall event of 0.5 inches or more.

Inspector: S Condes

Date: 6-7-10

Days since last rainfall: 1

Amount of last rainfall: 1" inches

Stabilization Measures

Drainage Area	Date Since Last Disturbance	Date of Next Disturbance	Stabilized (Yes/No)	Stabilized With	Condition
Load Line 1					
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	N/A				
Perimeter Areas/Misc.					
Stockpile Area					
Load Line 2					
Melt Pour Complex (DB-4, DB-4-WN)	N/A				
Explosive Handling Area (DB-10, 10-VP2)					
Perimeter/Miscellaneous Areas					
Stockpile Area					
Load Line 3					
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	N/A				
Explosive Handling Area (EA-6, EA-6A, EB-25)	6-4-10	6-7-10	NO	-	Good
Perimeter/Miscellaneous Areas	d				
Stockpile Area	6-4-10				

Stabilization required:

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

To be completed every 7 days and within 24 hours of a rainfall event of 0.5 inches or more.

Inspector: J. Shepard

Date: 6/9/10

Days since last rainfall: 1

Amount of last rainfall: 1.0 inches

Stabilization Measures

Drainage Area	Date Since Last Disturbance	Date of Next Disturbance	Stabilized (Yes/No)	Stabilized With	Condition
Load Line 1					
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	11/2009	6/2010	No	STH Fence N/A	Good
Perimeter Areas/Misc.	↓	↓	↓	↓	↓
Stockpile Area	↓	↓	↓	↓	↓
Load Line 2					
Melt Pour Complex (DB-4, DB-4-WN)	11/2009	6/21/10	↓	↓	↓
Explosive Handling Area (DB-10, 10-VP2)	↓	↓	↓	↓	↓
Perimeter/Miscellaneous Areas	↓	↓	↓	↓	↓
Stockpile Area	↓	↓	↓	↓	↓
Load Line 3					
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	6/8/2010	6/16/10	Yes	STH Fence	↓
Explosive Handling Area (EA-6, EA-6A, EB-25)	↓	6/10/10	↓	↓	↓
Perimeter/Miscellaneous Areas	↓	↓	↓	↓	↓
Stockpile Area	↓	↓	↓	↓	↓

Stabilization required:

No additional

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

Inspector: J. Shepard

Date: 6/9/00

Silt Fence and Straw Bales

Drainage Area Perimeter	Has Silt Fence Reached 1/3 of Fence Height?	Is Fence Properly Secured?	Is There Evidence of Washout or Topping Over?	Comment
Load Line 1				
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	NO	Yes	NO	
Perimeter Areas/Misc.				
Stockpile Area				
Load Line 2				
Melt Pour Complex (DB-4, DB-4-WN)				
Explosive Handling Area (DB-10, 10-VP2)				
Perimeter/Miscellaneous Areas				
Stockpile Area				
Load Line 3				
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)				
Explosive Handling Area (EA-6, EA-6A, EB-25)				
Perimeter/Miscellaneous Areas				
Stockpile Area	↓	↓	↓	

Maintenance required for silt fence and straw bales:

None

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

To be completed every 7 days and within 24 hours of a rainfall event of 0.5 inches or more.

Inspector: S. Coates

Date: 6-10-10

Days since last rainfall: 1

Amount of last rainfall: 2" inches

Stabilization Measures

Drainage Area	Date Since Last Disturbance	Date of Next Disturbance	Stabilized (Yes/No)	Stabilized With	Condition
Load Line 1					
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	N/A				
Perimeter Areas/Misc.					
Stockpile Area					
Load Line 2					
Melt Pour Complex (DB-4, DB-4-WN)	N/A				
Explosive Handling Area (DB-10, 10-VP2)					
Perimeter/Miscellaneous Areas					
Stockpile Area					
Load Line 3					
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)		RD-4A-6-10-10	YES	Silt Fence installed	Good
Explosive Handling Area (EA-6, EA-6A, EB-25)	EA-6-6-4-10 EA-6A-6-8-10		YES	Silt Fence installed	
Perimeter/Miscellaneous Areas	ES-25-6-9-10		YES		Good
Stockpile Area	6-8-10	6-26-10	YES		Good

Stabilization required:

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

Inspector: S. Condes

Date: 6-10-10

Stabilized Construction Entrances

Construction Entrance Location	Does Mud Get Tracked onto Road?	Is the Gravel Clean or is it Filled with Sediment?	Does all Traffic use the Stabilized Entrance to Leave the Site?	Is the Culvert Beneath the Entrance Working?
Load Line 1				
Load Line 2				
Load Line 3	no	clean	no	N/A

Stabilization required:

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

Inspector: Slater

Date: 6-10-10

Silt Fence and Straw Bales

Drainage Area Perimeter	Has Silt Fence Reached 1/3 of Fence Height?	Is Fence Properly Secured?	Is There Evidence of Washout or Topping Over?	Comment
Load Line 1				
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	N/A			
Perimeter Areas/Misc.				
Stockpile Area				
Load Line 2				
Melt Pour Complex (DB-4, DB-4-WN)	N/A			
Explosive Handling Area (DB-10, 10-VP2)				
Perimeter/Miscellaneous Areas				
Stockpile Area				
Load Line 3				
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	no	yes	no	
Explosive Handling Area (EA-6, EA-6A, EB-25)	no	yes	no	
Perimeter/Miscellaneous Areas	no	yes	no	
Stockpile Area	no	yes	no	

Maintenance required for silt fence and straw bales:

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

To be completed every 7 days and within 24 hours of a rainfall event of 0.5 inches or more.

Inspector: J. Shepard

Date: 6/17/10

Days since last rainfall: 2

Amount of last rainfall: 0.25 inches

Stabilization Measures

Drainage Area	Date Since Last Disturbance	Date of Next Disturbance	Stabilized (Yes/No)	Stabilized With	Condition
Load Line 1					
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	11/2009	6/2010	NO	Silt Fence ^{N/A}	Good
Perimeter Areas/Misc.	↓	↓	↓	↓	↓
Stockpile Area	↓	↓	↓	↓	↓
Load Line 2					
Melt Pour Complex (DB-4, DB-4-WN)	11/2009	6/21/10	↓	↓	↓
Explosive Handling Area (DB-10, 10-VP2)	↓	↓	↓	↓	↓
Perimeter/Miscellaneous Areas	↓	↓	↓	↓	↓
Stockpile Area	↓	↓	↓	↓	↓
Load Line 3					
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	6/16/10	N/A	yes	Silt Fence	↓
Explosive Handling Area (EA-6, EA-6A, EB-25)	↓	↓	↓	↓	↓
Perimeter/Miscellaneous Areas	↓	↓	↓	↓	↓
Stockpile Area	6/17/10	↓	↓	↓	↓

Stabilization required: No additional

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

Inspector: J. Shepard

Date: 6/19/10

Stabilized Construction Entrances

Construction Entrance Location	Does Mud Get Tracked onto Road?	Is the Gravel Clean or is it Filled with Sediment?	Does all Traffic use the Stabilized Entrance to Leave the Site?	Is the Culvert Beneath the Entrance Working?
Load Line 1	N	Clean	Y	Y
Load Line 2	↓	↓	↓	↓
Load Line 3	↓	↓	↓	↓

Stabilization required: No additional

To be performed by: — On or before: —

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

Inspector: J Shepard

Date: 6/17/10

Silt Fence and Straw Bales

Drainage Area Perimeter	Has Silt Fence Reached 1/3 of Fence Height?	Is Fence Properly Secured?	Is There Evidence of Washout or Topping Over?	Comment
Load Line 1				
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	NA	N/A	N/A	N/A
Perimeter Areas/Misc.	↓	↓	↓	↓
Stockpile Area				
Load Line 2				
Melt Pour Complex (DB-4, DB-4-WN)	↓	↓	↓	↓
Explosive Handling Area (DB-10, 10-VP2)				
Perimeter/Miscellaneous Areas				
Stockpile Area				
Load Line 3				
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	↓	yes	No	↓
Explosive Handling Area (EA-6, EA-6A, EB-25)				
Perimeter/Miscellaneous Areas				
Stockpile Area				

Maintenance required for silt fence and straw bales:

None

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

To be completed every 7 days and within 24 hours of a rainfall event of 0.5 inches or more.

Inspector: S Coates

Date: 6-21-10

Days since last rainfall: _____

Amount of last rainfall: _____ inches

Stabilization Measures

Drainage Area	Date Since Last Disturbance	Date of Next Disturbance	Stabilized (Yes/No)	Stabilized With	Condition
Load Line 1					
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	N/A				
Perimeter Areas/Misc.					
Stockpile Area					
Load Line 2					
Melt Pour Complex (DB-4, DB-4-WN)	N/A				
Explosive Handling Area (DB-10, 10-VP2)					
Perimeter/Miscellaneous Areas					
Stockpile Area					
Load Line 3					
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	6-17-10		NO		5 to Sanded
Explosive Handling Area (EA-6, EA-6A, EB-25)	6-20		NO		6 to Sanded
Perimeter/Miscellaneous Areas			FL		6 to Sanded
Stockpile Area	6-17-10	7	Y. Plastic Silt Fence		Good

Stabilization required:

To be performed by: [Signature] On or before: Wed 6-28-10

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

To be completed every 7 days and within 24 hours of a rainfall event of 0.5 inches or more.

Inspector: S Condes

Date: 6-27-10

Days since last rainfall: 1

Amount of last rainfall: .5 inches

Stabilization Measures

Drainage Area	Date Since Last Disturbance	Date of Next Disturbance	Stabilized (Yes/No)	Stabilized With	Condition
Load Line 1					
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)					
Perimeter Areas/Misc.					
Stockpile Area					
Load Line 2					
Melt Pour Complex (DB-4, DB-4-WN)	<u>2 previous</u>				<u>to be sampled</u>
Explosive Handling Area (DB-10, 10-VP2)	<u>6-22-10</u>				<u>to be sampled</u>
Perimeter/Miscellaneous Areas					
Stockpile Area					
Load Line 3					
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	<u>6-17-10</u>		<u>no</u>		<u>To be sampled</u>
Explosive Handling Area (EA-6, EA-6A, EB-25)	<u>6-10-10</u>		<u>no</u>		<u>to be sampled</u>
Perimeter/Miscellaneous Areas			<u>no</u>		<u>to be sampled</u>
Stockpile Area			<u>if Alkali</u>		<u>Gene.</u>

Stabilization required:

To be performed by: CMS On or before: week 6-28-10

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

Inspector: S. Carter

Date: 6-24-10

Stabilized Construction Entrances

Construction Entrance Location	Does Mud Get Tracked onto Road?	Is the Gravel Clean or is it Filled with Sediment?	Does all Traffic use the Stabilized Entrance to Leave the Site?	Is the Culvert Beneath the Entrance Working?
Load Line 1	N/A			
Load Line 2	N/A			
Load Line 3	no	clean	no	N/A

Stabilization required:

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

Inspector: S. Costa

Date: 6-24-0

Silt Fence and Straw Bales

Drainage Area Perimeter	Has Silt Fence Reached 1/3 of Fence Height?	Is Fence Properly Secured?	Is There Evidence of Washout or Topping Over?	Comment
Load Line 1				
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	N/A			
Perimeter Areas/Misc.				
Stockpile Area				
Load Line 2				
Melt Pour Complex (DB-4, DB-4-WN)	no	yes	no	
Explosive Handling Area (DB-10, 10-VP2)	no	yes	no	
Perimeter/Miscellaneous Areas	no	yes	no	
Stockpile Area	no	yes	no	
Load Line 3				
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	no	yes	no	
Explosive Handling Area (EA-6, EA-6A, EB-25)	no	yes	no	
Perimeter/Miscellaneous Areas	no	yes	no	
Stockpile Area	no	yes	no	

Maintenance required for silt fence and straw bales:

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

To be completed every 7 days and within 24 hours of a rainfall event of 0.5 inches or more.

Inspector: Brenda Pratt

Date: 6-29-10

Days since last rainfall: 5

Amount of last rainfall: 1 inches

Stabilization Measures

Drainage Area	Date Since Last Disturbance	Date of Next Disturbance	Stabilized (Yes/No)	Stabilized With	Condition
Load Line 1					
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	11-2009	N /	NO	N /	Foot print covered w/ plastic
Perimeter Areas/Misc.	N /	/ A	N /	/ A	N /
Stockpile Area	/ A	/ A	/ A	/ A	/ A
Load Line 2					
Melt Pour Complex (DB-4, DB-4-WN)	6-24-10	N /	YES	Seeded	Good
Explosive Handling Area (DB-10, 10-VP2)	6-22-10	/ A	↓	↓	↓
Perimeter/Miscellaneous Areas	6-24-10	/ A	↓	↓	↓
Stockpile Area	6-24-10	/ A	↓	plastic cover / s. H. fence	↓
Load Line 3					
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	6-17-10	N /	yes	Seeded	Good
Explosive Handling Area (EA-6, EA-6A, EB-25)	6-10-10	/ A	↓	↓	↓
Perimeter/Miscellaneous Areas	6-17-10	/ A	↓	↓	↓
Stockpile Area	6-17-10	/ A	↓	plastic cover / s. H. fence	↓

Stabilization required:

No additional

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

To be completed every 7 days and within 24 hours of a rainfall event of 0.5 inches or more.

Inspector: Brenda Pratt

Date: 7-9-2010

Days since last rainfall: 0 (light rain on 7-9)

Amount of last rainfall: 20.5 inches

Stabilization Measures

Drainage Area	Date Since Last Disturbance	Date of Next Disturbance	Stabilized (Yes/No)	Stabilized With	Condition
Load Line 1					
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	11-2009	NA	No	NA	Footprint covered w/plastic
Perimeter Areas/Misc.	NA	↓	N/A	↓	NA
Stockpile Area	NA	↓	↓	↓	NA
Load Line 2					
Melt Pour Complex (DB-4, DB-4-WN)	6-24-10	N/A	Yes	Seeded	Good
Explosive Handling Area (DB-10, 10-VP2)	6-22-10	A	↓	Seeded	Good
Perimeter/Miscellaneous Areas	6-24-10	↓	↓	Seeded	Good
Stockpile Area	6-24-10	↓	↓	Plastic cover/silt fence	Good
Load Line 3					
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	6-17-10	N/A	Yes	Seeded	Good
Explosive Handling Area (EA-6, EA-6A, EB-25)	6-10-10	A	↓	Seeded	Good
Perimeter/Miscellaneous Areas	6-17-10	↓	↓	Seeded	Good
Stockpile Area	6-17-10	↓	↓	plastic/silt fence	Good

Stabilization required:

No additional

To be performed by: — On or before: —

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

Inspector: B. Pratt

Date: 7-9-10

Silt Fence and Straw Bales

Drainage Area Perimeter	Has Silt Fence Reached 1/3 of Fence Height?	Is Fence Properly Secured?	Is There Evidence of Washout or Topping Over?	Comment
Load Line 1				
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	NA			
Perimeter Areas/Misc.				
Stockpile Area				
Load Line 2				
Melt Pour Complex (DB-4, DB-4-WN)	NO	yes	NO	
Explosive Handling Area (DB-10, 10-VP2)	↓	↓	↓	
Perimeter/Miscellaneous Areas	↓	↓	↓	
Stockpile Area	↓	↓	↓	
Load Line 3				
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	NO	yes	NO	
Explosive Handling Area (EA-6, EA-6A, EB-25)	↓	↓	↓	
Perimeter/Miscellaneous Areas	↓	↓	↓	
Stockpile Area	↓	↓	↓	

Maintenance required for silt fence and straw bales:

No additional

To be performed by: — On or before: —

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

To be completed every 7 days and within 24 hours of a rainfall event of 0.5 inches or more.

Inspector: Brenda Pratt

Date: 7-16-10

Days since last rainfall: 1

Amount of last rainfall: 0.5 inches

Stabilization Measures

Drainage Area	Date Since Last Disturbance	Date of Next Disturbance	Stabilized (Yes/No)	Stabilized With	Condition
Load Line 1					
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	11-2009	N/A	No	N/A	Covered w/ plastic
Perimeter Areas/Misc.	NA	N/A	N/A	N/A	NA
Stockpile Area	NA	N/A	N/A	N/A	NA
Load Line 2					
Melt Pour Complex (DB-4, DB-4-WN)	6-24-10	N/A	yes	seeded	Good
Explosive Handling Area (DB-10, 10-VP2)	6-22-10	N/A	↓	↓	↓
Perimeter/Miscellaneous Areas	6-24-10	N/A	↓	↓	↓
Stockpile Area	6-22-10	N/A	↓	plastic over/silt fence	↓
Load Line 3					
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	6-17-10	N/A	yes	seeded	Good
Explosive Handling Area (EA-6, EA-6A, EB-25)	6-10-10	N/A	↓	↓	↓
Perimeter/Miscellaneous Areas	6-17-10	N/A	↓	↓	↓
Stockpile Area	6-17-10	N/A	↓	plastic/silt fence	↓

Stabilization required:

No additional

To be performed by: — On or before: —

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

To be completed every 7 days and within 24 hours of a rainfall event of 0.5 inches or more.

Inspector: Brenda Pratt

Date: 7-20-10

Days since last rainfall: 1

Amount of last rainfall: 0.8 inches

Stabilization Measures

Drainage Area	Date Since Last Disturbance	Date of Next Disturbance	Stabilized (Yes/No)	Stabilized With	Condition
Load Line 1					
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	11-2009	N/A	NO	N/A	Covered w/ plastic
Perimeter Areas/Misc.	N/A	N/A	N/A	N/A	N/A
Stockpile Area	N/A	N/A	N/A	N/A	N/A
Load Line 2					
Melt Pour Complex (DB-4, DB-4-WN)	6-24-10	N/A	yes	Seeded	Good
Explosive Handling Area (DB-10, 10-VP2)	6-22-10	N/A	↓	↓	↓
Perimeter/Miscellaneous Areas	6-24-10	N/A	↓	↓	↓
Stockpile Area	6-22-10	7-22-10	↓	plastic cover / s. it fence	↓
Load Line 3					
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	6-17-10	N/A	yes	Seeded	Good
Explosive Handling Area (EA-6, EA-6A, EB-25)	6-10-10	N/A	yes	↓	↓
Perimeter/Miscellaneous Areas	7-19-10	N/A BP	yes	↓	↓
Stockpile Area	7-19-10	7-20-10	yes	plastic cover / s. it fence	being excavated & removed

Stabilization required:

No additional

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

To be completed every 7 days and within 24 hours of a rainfall event of 0.5 inches or more.

Inspector: B. Pratt

Date: 7-30-10

Days since last rainfall: 1

Amount of last rainfall: ≈ 1 inches

Stabilization Measures

Drainage Area	Date Since Last Disturbance	Date of Next Disturbance	Stabilized (Yes/No)	Stabilized With	Condition
Load Line 1					
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)	11-2009	N/A	NO	N/A	Footprint covered w/ plastic
Perimeter Areas/Misc.	N/A	N/A	N/A	N/A	N/A
Stockpile Area	N/A	N/A	N/A	N/A	N/A
Load Line 2					
Melt Pour Complex (DB-4, DB-4-WN)	6-24-10	N/A	yes	seeded	Good
Explosive Handling Area (DB-10, 10-VP2)	6-22-10	N/A	↓	↓	↓
Perimeter/Miscellaneous Areas	6-24-10	N/A	↓	↓	↓
Stockpile Area	7-27-10	N/A	↓	↓	↓
Load Line 3					
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	6-17-10	N/A	yes	seeded	Good
Explosive Handling Area (EA-6, EA-6A, EB-25)	6-10-10	N/A	↓	↓	↓
Perimeter/Miscellaneous Areas	7-27-10 6-17-10	N/A	↓	↓	↓
Stockpile Area	7-27-10	N/A	↓	↓	↓

Stabilization required:

No additional

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

Inspector: B. Pratt

Date: 7-30-10

Stabilized Construction Entrances

Construction Entrance Location	Does Mud Get Tracked onto Road?	Is the Gravel Clean or is it Filled with Sediment?	Does all Traffic use the Stabilized Entrance to Leave the Site?	Is the Culvert Beneath the Entrance Working?
Load Line 1	/	/	/	/
Load Line 2	N /	N /	N /	N /
Load Line 3	/ A	/ A	/ A	/ A

Stabilization required:

To be performed by: _____ On or before: _____

**Ravenna Army Ammunition Plant
Storm Water Pollution Prevention Plan
Inspection and Maintenance Report Form
Load Lines 1, 2, and 3**

Inspector: B. Pratt

Date: 7-30-10

Silt Fence and Straw Bales

Drainage Area Perimeter	Has Silt Fence Reached 1/3 of Fence Height?	Is Fence Properly Secured?	Is There Evidence of Washout or Topping Over?	Comment
Load Line 1				
Melt Pour Complex (CB-4, 4-WN, 4A, 4A-WS)		N		
Perimeter Areas/Misc.			A	
Stockpile Area				
Load Line 2				
Melt Pour Complex (DB-4, DB-4-WN)	NO	yes	NO	
Explosive Handling Area (DB-10, 10-VP2)	↓	↓	↓	
Perimeter/Miscellaneous Areas	↓	↓	↓	
Stockpile Area	↓	↓	↓	
Load Line 3				
Melt Pour Complex (EB-4, EB-4A, EB-4WN, EB-4A-WN)	NO	yes	NO	
Explosive Handling Area (EA-6, EA-6A, EB-25)	↓	↓	↓	
Perimeter/Miscellaneous Areas	↓	↓	↓	
Stockpile Area	↓	↓	↓	

Maintenance required for silt fence and straw bales:

No additional

To be performed by: _____ On or before: _____

APPENDIX J

Load Line 4 Stockpile Removal Documentation

**Table J-1
Soil Disposal Summary for Load Line 4
Ravenna Army Ammunition Plant
Ravenna, Ohio**

Load No.	Disposal Date	Time Out	Type of Waste	Source/ Location	Date of Generation	Transporter	Trailer No.	Disposal Facility	Waste Profile No.	Manifest Document No.	Weight (Tons)
1	7/30/2008	0857	Non Haz	LL4	7/30/2008	CZ	HM2	Countywide	44417	201858	20.24
2	7/30/2008	0859	Non Haz	LL4	7/30/2008	CZ	965	Countywide	44417	201859	21.55
3	7/30/2008	0842	Non Haz	LL4	7/30/2008	CZ	063	Countywide	44417	201860	20.3
4	7/30/2008	0913	Non Haz	LL4	7/30/2008	CZ	953	Countywide	44417	201861	23.32
5	7/30/2008	0930	Non Haz	LL4	7/30/2008	Acme	977	Countywide	44417	201862	16.19
6	7/30/2008	0934	Non Haz	LL4	7/30/2008	Acme	973	Countywide	44417	201863	21.05
7	7/30/2008	1049	Non Haz	LL4	7/30/2008	Acme	004	Countywide	44417	201864	22.45
8	7/30/2008	1024	Non Haz	LL4	7/30/2008	CZ	052	Countywide	44417	201865	21.61
9	7/30/2008	1259	Non Haz	LL4	7/30/2008	Acme	061	Countywide	44417	201866	21.38
10	7/30/2008	1300	Non Haz	LL4	7/30/2008	Acme	022	Countywide	44417	201867	21.97
11	7/30/2008	1300	Non Haz	LL4	7/30/2008	CZ	053	Countywide	44417	201868	20.93
12	7/31/2008	0808	Non Haz	LL4	7/31/2008	Acme	991	Countywide	44417	201901	20.01
13	7/31/2008	0817	Non Haz	LL4	7/31/2008	Acme	021	Countywide	44417	201902	20.95
14	7/31/2008	0822	Non Haz	LL4	7/31/2008	Acme	004	Countywide	44417	201903	21.96
15	7/31/2008	0829	Non Haz	LL4	7/31/2008	Acme	062	Countywide	44417	201904	22.82
16	7/31/2008	0856	Non Haz	LL4	7/31/2008	Acme	972	Countywide	44417	201905	20.97
17	7/31/2008	0856	Non Haz	LL4	7/31/2008	Acme	003	Countywide	44417	201906	21.51
18	7/31/2008	1140	Non Haz	LL4	7/31/2008	Acme	964	Countywide	44417	201907	21.21
19	7/31/2008	1335	Non Haz	LL4	7/31/2008	Acme	971	Countywide	44417	201900	21.04
20	7/31/2008	1322	Non Haz	LL4	7/31/2008	Acme	972	Countywide	44417	201899	21.55
21	7/31/2008	1335	Non Haz	LL4	7/31/2008	Acme	003	Countywide	44417	201898	21.27
22	7/31/2008	1344	Non Haz	LL4	7/31/2008	Acme	061	Countywide	44417	201897	20.81
23	7/31/2008	1348	Non Haz	LL4	7/31/2008	Acme	064	Countywide	44417	201896	19.01
24	7/31/2008	1413	Non Haz	LL4	7/31/2008	Acme	073	Countywide	44417	201895	16.77

Total Weight:	500.87
----------------------	---------------

RS -) COUNTYWIDE RDP
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 900614
Date: 7/30/2008
Time: 10:39:13-10:39:33
Scale

Truck: MM2
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS
Truck Type: DUMP TRUCK

Gross: 71900LB 1 In Scale
Tare: 31540LB Out PreTare
Net: 40360LB
Net Tons: 20.18

Generator: RAVENN/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM

Comment: SOIL

Origin

Materials & Services

Quantity

PORTAGE/PORTAGE COUNTY 100% of 0145/TSW PER TON - 20.18 Tons Tons

Drivers: Daw

Deputy Weighmasters:

 Laramie Polen



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201858**

SECTION 1 THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER
NAME OR DESCRIPTION OF WASTE SHIPPED SOIL		FACILITY APPROVAL # 1512718
COMMENTS/FACILITY APPROVAL #		

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENCER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
--	------------------------------	------------------------------------	---

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE: *Irving Venger* DATE: **7-30-08**

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME Case Co's 2 Trucking	ADDRESS 9495 Howard Blvd Youngstown OH	PHONE NO. (400) 411-2522			
VEHICLE I.D. NO. Hm 2	STATE OH	BOX NUMBER-IN	BOX NUMBER-OUT	JOB NO.	
I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.		PRINT DRIVER'S NAME DAVE KARINSKI	DATE 7-30-08		
		DRIVER'S SIGNATURE <i>D. Karinski</i>			

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	------------------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE: *Garrett M. Peter* DATE: **7/30/08**

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
OPERATOR'S ADDRESS	

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS COUNTYWIDE RDM
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 908615
Date: 7/30/2008
Time: 10:40:17-10:40:41
Scale

Truck: A965
Customer: 208/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 72640LB 2 In Scale
Tare: 30440LB Out PreTare
Net: 42200LB
Net Tons: 21.10

Truck Type: DUMP TRUCK

Generator: RAVENN/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% of 0148/ISW PER TON -	21.10 Tons Tons

Driver: 

Deputy Verifier: Laramie Polen



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201859**

SECTION 1 THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER
NAME OR DESCRIPTION OF WASTE SHIPPED SOIL		
COMMENTS/FACILITY APPROVAL # FACILITY APPROVAL #: 512718		

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.		GENERATOR SIGNATURE 	DATE 7-30-08

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME CZ Trucking	ADDRESS HARVARD Blvd S.W. DUNDY OH	PHONE NO. (500) 441-2522		
VEHICLE I.D. NO. 965	STATE OH	BOX NUMBER-IN	BOX NUMBER-OUT	JOB NO.
I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.		PRINT DRIVER'S NAME FRED DAVIS	DATE 7-30-08	
		DRIVER'S SIGNATURE 		

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
COMMENTS		

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.	AUTHORIZED SIGNATURE 	DATE 7/30/08
---	--------------------------	------------------------

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
OPERATOR'S ADDRESS	

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS COUNTYWIDE RWF
3619 BRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 908505
Date: 7/30/2008
Time: 09:59:06-10:00:35
Scale

Truck: A063
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS
Truck Type: DUMP TRUCK

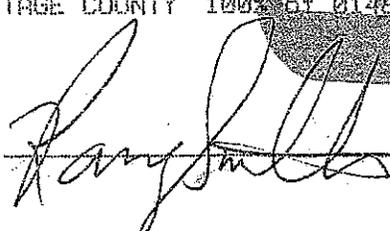
Gross: 69920LB 1 In Scale
Tare: 29100LB Out PreTare
Net: 40740LB
Net Tons: 20.37

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% of 0148/ISW PER TON -	20.37 Tons Tons

Driver:



Deputy Weighmaster:

Laramie Polen



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201860**

SECTION 1 THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 4266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED: **SOIL**

FACILITY APPROVAL #: **512718**

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
--	------------------------------	------------------------------------	---

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE: *Irving Venger*

DATE: **7-30-08**

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME CZ Trucking	ADDRESS 9495 Hounden Blvd, York, Pa	PHONE NO. 800 441-2522		
VEHICLE I.D. NO. 063	STATE OH	BOX NUMBER-IN	BOX NUMBER-OUT	JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME: **Randy Smith**

DRIVER'S SIGNATURE: *Randy Smith*

DATE: **7-30-08**

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	------------------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE: *Jessica Poole*

DATE: **7/30/08**

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME: _____ PHONE NUMBER: _____

OPERATOR'S ADDRESS: _____

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type) _____ Signature of Operator's Authorized Agent _____ Date _____

RESPONSIBLE AGENCY NAME AND ADDRESS _____

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS COUNTYWIDE RD
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44826

Ticket: 900618
Date: 7/30/2008
Time: 10:44:46-10:45:08
Scale

Truck: A953
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 77840LB 1 In Scale
Tare: 31200LB Out PreTare
Net: 46640LB
Net Tons: 23.32

Truck Type: DUMP TRUCK

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512710/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% of 0148/ISW PER TON -	23.32 tons

Driver:

[Signature]
T-8

Deputy Weymaster:

Laramie Polen



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201861**

SECTION 1 THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER
NAME OR DESCRIPTION OF WASTE SHIPPED SOIL		
COMMENTS/FACILITY APPROVAL # FACILITY APPROVAL #1512718		

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
	I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.		DATE 7-30-08
GENERATOR SIGNATURE <i>Irving Venger</i>			

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME C-Z TRUCKING	ADDRESS 9495 HARVARD BLVD. YOUNGSTOWN	PHONE NO. (330) 758-2313
VEHICLE I.D. NO. 953	STATE OHIO	BOX NUMBER-IN
		BOX NUMBER-OUT
I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.		DATE 7-30-08
PRINT DRIVER'S NAME NOAH FEIGER T-8		
DRIVER'S SIGNATURE <i>Noah Feiger</i>		

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
COMMENTS		
I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.	AUTHORIZED SIGNATURE <i>William M. P...</i>	DATE 7/30/08

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
OPERATOR'S ADDRESS	

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS COUNTYWIDE RDM
3619 BRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 988672
Date: 7/30/2008
Time: 11:20:50-11:52:22
Scale

Truck: A977
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

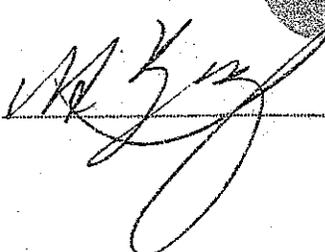
Gross: 63800LB 1 In Scale
Tare: 31120LB 2 Out Scale
Net: 32680LB
Net Tons: 16.34

Truck Type: DUMP TRUCK

Generator: RAVENN/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% of 0148/ISW PER TON -	16.34 Tons Tons

Driver: 

Deputy Weighmaster:

Laramie Polen



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201862**

SECTION 1

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 14417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED
SOIL

FACILITY APPROVAL #: 512718

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VEMGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
--	---------------------------	---------------------------------	--

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE
Irving Venger

DATE
7-30-98

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME NONE COMPANY	ADDRESS 9495 HARVARD YANV 65101 44151	PHONE NO. (513) 471-2500
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VEHICLE I.D. NO. 977	STATE OH	BOX NUMBER-IN	BOX NUMBER-OUT	JOB NO.
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I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME
ROBERT A. ZARLAWO

DRIVER'S SIGNATURE
Robert A. Zarlawo

DATE
07/30/98

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44826	PHONE NO. (330) 874-3855
---	--	---------------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE
Gavin M. Polen

DATE
7/30/08

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
-----------------	--------------

OPERATOR'S ADDRESS

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
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RESPONSIBLE AGENCY NAME AND ADDRESS

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
DISPOSAL FACILITY INVOICING - COPY 4**

RS * COUNTYWIDE RD
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44826

Ticket: 908645
Date: 7/30/2008
Time: 11:22:52-11:23:20
Scale

Truck: A973
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 72120LB 1 In Scale
Tare: 30120LB Out PreTare
Net: 42000LB
Net tons: 21.00

Truck Type: DUMP TRUCK

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% of 0148/ISW PER TON -	21.00 Tons Tons

Driver:

Ray T-60

Deputy Wagonmasters:

Laramie Polen



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201863**

SECTION 1 THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED
SOIL

COMMENTS/FACILITY APPROVAL #
FACILITY APPROVAL #: 512718

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
--	------------------------------	------------------------------------	---

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE: *Irving Venger* DATE: **7-30-08**

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME ACME	ADDRESS HARVARD BLVD	PHONE NO. (330) 758-2313		
VEHICLE I.D. NO. 173	STATE OH	BOX NUMBER-IN	BOX NUMBER-OUT	JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME: **RAY COURTNEY** DATE: **7-30-08**
 DRIVER'S SIGNATURE: *Ray Courtney*

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44624	PHONE NO. (330) 874-3855
--	--	------------------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE: *Karany M. Foley* DATE: **7/30/08**

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME: _____ PHONE NUMBER: _____

OPERATOR'S ADDRESS: _____

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type) _____ Signature of Operator's Authorized Agent _____ Date _____

RESPONSIBLE AGENCY NAME AND ADDRESS: _____

QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY DISPOSAL FACILITY INVOICING - COPY 4

RS → COLONYWIDE RD
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44826

Ticket: 908681
Date: 7/30/2008
Time: 12:00:36-12:01:14
Scale

Truck: A004
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

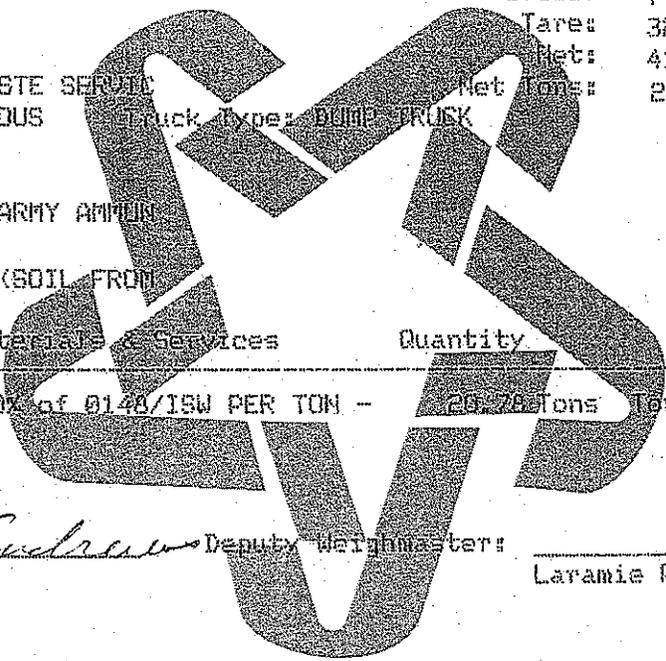
Gross: 74020LB 1 In Scale
Tare: 32460LB Out PreTare
Net: 41560LB
Net Tons: 29.78

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% of 0140/ISW PER TON -	29.78 Tons Tons

Driver: John Andrew Deputy Warehouse Manager: Laramie Polen





NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201864**

SECTION 1 THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT		ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 84417
		CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED: **SOIL** FACILITY APPROVAL #: **512718**

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
--	------------------------------	------------------------------------	---

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE: *Irving Venger* DATE: **7-30-08**

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME ACME		ADDRESS 9495 HARVARD BOULEVARD		PHONE NO. (330) 758-2313
VEHICLE I.D. NO. 004	STATE OHIO	BOX NUMBER-IN	BOX NUMBER-OUT	JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME: **JOHN ANDREWS** DATE: **7-30-2008**
 DRIVER'S SIGNATURE: *John Andrews*

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44826	PHONE NO. (330) 874-3855
--	--	------------------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE: *[Signature]* DATE: **7/30/08**

SECTION 4 ASBESTOS (Operator to complete)

Operator is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
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OPERATOR'S ADDRESS

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type) _____ Signature of Operator's Authorized Agent _____ Date _____

RESPONSIBLE AGENCY NAME AND ADDRESS

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS COUNTYWIDE RRF
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 900664
Date: 7/30/2008
Time: 11:40:15-11:40:48
Scale

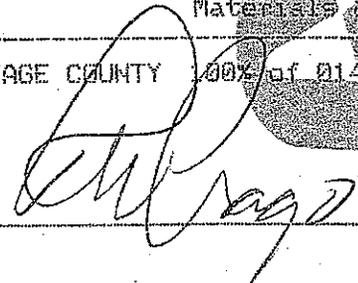
Truck: A052
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS
Truck Type: DUMP TRUCK

Gross: 73040LB 1 In Scale
Tare: 29360LB Out PreTare
Net: 43680LB
Net Tons: 21.84

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% of 0140/ISW PER TON -	21.84 Tons Tons

Drivers: 

Deputy Weighmaster: Laramie Polen



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201865**

SECTION 1 THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED

SOIL

FACILITY APPROVAL # **1512718**

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME	PHONE NO	24-HR. EMERGENCY NO.
	IRVING VENGER	(330)538-7312	(330)538-7312

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

Irving Venger

DATE

7-30-08

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME C-Z TRKING	ADDRESS HARVARD AVE JOHNSTOWN	PHONE NO. (800) 444-2522
VEHICLE I.D. NO. 052	STATE OH	BOX NUMBER-IN
		BOX NUMBER-OUT
		JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME

Ray C. Reed

DATE

7-30-08

DRIVER'S SIGNATURE

Ray C. Reed

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	--

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

James M. P. [Signature]

DATE

7/30/08

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
OPERATOR'S ADDRESS	

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS - COUNTYWIDE RRF
3612 GRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 908775
Date: 7/30/2008
Time: 14:16:50-14:17:03
Scale

Truck: A061
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 75160LB 1 In Scale
Tare: 32260LB Out PreTare
Net: 42900LB
Net Tons: 21.45

Truck Type: DUMP TRUCK

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% of 0148/ISW PER TON -	21.45 tons tons

Driver: Mohr 23

Deputy Weighmaster: _____

JESSICA BODE



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201866**

SECTION 1

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 84417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED
SOIL

COMMENTS/FACILITY APPROVAL #
FACILITY APPROVAL #1512718

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
--	------------------------------	------------------------------------	---

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE
Irving Venger

DATE
7-30-08

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME Acme	ADDRESS Mo	PHONE NO. (330) 441-2522
VEHICLE I.D. NO. 061	STATE OH	BOX NUMBER-IN
		BOX NUMBER-OUT
		JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME
mark mangus

DRIVER'S SIGNATURE
Mark Mangus

DATE
7/30/08

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3419 GRACEMONT ST., S.W. EAST SPARTA, OH 44826	PHONE NO. (330) 874-3855
--	--	------------------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE
Shirley A. Bode

DATE
7/30/08

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME

PHONE NUMBER

OPERATOR'S ADDRESS

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type) _____ Signature of Operator's Authorized Agent _____ Date _____

RESPONSIBLE AGENCY NAME AND ADDRESS

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
DISPOSAL FACILITY INVOICING - COPY 4**

RS - COUNTYWIDE RDP
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 908777
Date: 7/30/2008
Time: 14:18:48-14:19:03
Scale

Truck: A022
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 77040LB 1 In Scale
Tare: 32660LB Out PreTare
Net: 44380LB
Net Tons: 22.19

Truck Type: DUMP TRUCK

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% of 0148/ISW PER TON -	22.19 tons tons

Driver: Claw

Deputy Merchants: JESSICA BODE



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201867**

SECTION 1

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED
SOIL

FACILITY APPROVAL # **YS12718**

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330)538-7312	24-HR. EMERGENCY NO. (330)538-7312
--	------------------------------	-----------------------------------	--

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE
Irving Venger

DATE
7-30-08

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME Acme	ADDRESS Harvard Blvd Youngstown Oh	PHONE NO. (330) 756 2313
VEHICLE I.D. NO. 022/0751	STATE	BOX NUMBER-IN
		BOX NUMBER-OUT
		JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME
Clare Johnston

DRIVER'S SIGNATURE
Clare Johnston

DATE
07-30-08

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3419 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	--

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE
Jessie Abode

DATE
7/30/08

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
-----------------	--------------

OPERATOR'S ADDRESS

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
------------------------------	--	------

RESPONSIBLE AGENCY NAME AND ADDRESS

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201868**

SECTION 1

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 3451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 4417
	CITY RAVENNA STATE OH ZIP 4266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED
SOIL

FACILITY APPROVAL #: **512718**

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330)538-7312	24-HR. EMERGENCY NO. (330)538-7312
--	------------------------------	-----------------------------------	--

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE: *Irving Venger*

DATE: **7-30-08**

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME EZ TRUCKING	ADDRESS 9495 HARVARD BLVD Youngstown	PHONE NO. (330)758-2313		
VEHICLE ID NO. 053	STATE OHIO	BOX NUMBER-IN	BOX NUMBER-OUT	JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME: **Roy Watson**

DRIVER'S SIGNATURE: *Roy Watson*

DATE: **7-30-08**

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3617 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	------------------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE: *Geneva Kardo*

DATE: **7/30/08**

SECTION 4 (ASBESTOS) (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME

PHONE NUMBER

OPERATOR'S ADDRESS

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type) _____ Signature of Operator's Authorized Agent _____ Date _____

RESPONSIBLE AGENCY NAME AND ADDRESS _____

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS - COUNTYWIDE RDF
3619 BRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 909286
Date: 7/31/2008
Time: 15:40:26-15:54:43
Scale

Truck: A073
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 57720LB 1 In Scale
Tare: 36940LB 2 Out Scale
Net: 20780LB
Net Tons: 10.39

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% of 0148/TSW PER TON -	10.39 tons @ 10.39

Driver: 

Deputy Weighmaster:

JESSICA BODE



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201895**

SECTION 1

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037 CITY RAVENNA STATE OH ZIP 44266	WASTE I.D. NUMBER 44417
		P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED

SOIL

FACILITY APPROVAL #: 512718

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
	I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.		

GENERATOR SIGNATURE <i>Irving Venger</i>	DATE 7-31-08
---	-----------------

SECTION 2

THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME Acme	ADDRESS 9495 Howard Blvd	PHONE NO. 1-700-441-2402
VEHICLE I.D. NO. 073	STATE OH	BOX NUMBER-IN
		BOX NUMBER-OUT
I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.		JOB NO.

PRINT DRIVER'S NAME Krisman	DATE 7-31-08
DRIVER'S SIGNATURE <i>Krisman</i>	

SECTION 3

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
---	--	-----------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.	AUTHORIZED SIGNATURE <i>Kessia Brooke</i>	DATE 7/31/08
---	--	-----------------

SECTION 4

ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
OPERATOR'S ADDRESS	

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS - COUNTYWIDE RDF
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 909270
Date: 7/31/2008
Time: 15:09:20-15:27:34
Scale

Trucks: A064
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 67460LB 1 In Scale
Tare: 29260LB 2 Out Scale
Net: 38200LB
Net Tons: 19.10

Truck Type: DUMP TRUCK

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

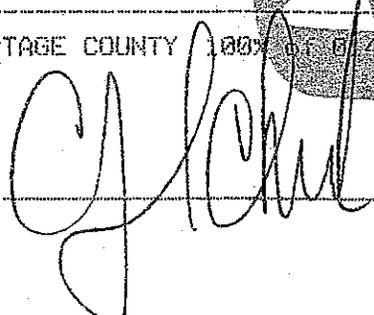
Origin

Materials & Services

Quantity

PORTAGE/PORTAGE COUNTY 100% of 0.48 TSW PER TON: - 19.10 Tons Tons

Driver:



Deputy Weighmaster:

JESSICA BODE



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201896**

SECTION 1

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 14417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED

SOIL

FACILITY APPROVAL #: **512718**

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
--	------------------------------	------------------------------------	---

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE <i>Irving Venger</i>	DATE 7-31-08
---	------------------------

SECTION 2

THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME Aeme/C2	ADDRESS 4495 Harvard Blvd Youngstown OH	PHONE NO. (330) 758 2313
VEHICLE I.D. NO. 064	STATE OH	BOX NUMBER-IN
		BOX NUMBER-OUT
		JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME CHRIS J. SCHEPK	DATE 7-31-08
DRIVER'S SIGNATURE <i>Chris J. Schepk</i>	

SECTION 3

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST-SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	------------------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <i>[Signature]</i>	DATE 7/31/08
--	------------------------

SECTION 4

ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
OPERATOR'S ADDRESS	

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS - COUNTYWIDE RDF
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 909248
Date: 7/31/2008
Time: 15:01:48-15:02:06
Scale

Truck: A061
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 69300LB i In Scale
Tare: 32260LB Out PreTare
Net: 37040LB
Net Tare: 18.52

Truck Type: DUMP TRUCK

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

Origin

Materials & Services

Quantity

PORTAGE/PORTAGE COUNTY 100% of 0146/TSW PER TON - 18.52 Tons Tons

Driver:

Mahn T03

Dept. Weighmaster:

JESSICA BODE



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201897**

SECTION 1

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED

SOIL

FACILITY APPROVAL #: 512718

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
	I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.		

GENERATOR SIGNATURE

Irving Venger

DATE

7-31-08

SECTION 2

THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME Acme / C7	ADDRESS No	PHONE NO. ()
VEHICLE ID NO. 061	STATE	BOX NUMBER-IN
		BOX NUMBER-OUT
I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.		DATE

1-800-441-2522

PRINT DRIVER'S NAME

MARK HANGUS

DRIVER'S SIGNATURE

Mark Hangus

7/31/08

SECTION 3

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
---	--	------------------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

William Beale

DATE

7/31/08

SECTION 4

ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
OPERATOR'S ADDRESS	

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

FRIABLE

NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS - COUNTYWIDE RDF
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 909238
Date: 7/31/2008
Time: 14:49:03-14:49:13
Scale

Truck: A003
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 74500LB 2 In Scale
Tare: 31360LB Out PreTare
Net: 43140LB
Net Tons: 21.57

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SDIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% of 0148 TSW PER TON -	21.57 tons tons

Driver: 7-32

Deputy Weighmaster: JESSICA BODE



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201898**

SECTION 1

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 4417
	CITY RAVENNA STATE OH ZIP 4266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED
SOIL

FACILITY APPROVAL #: **512718**

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330)538-7312	24-HR. EMERGENCY NO. (330)538-7312
--	------------------------------	-----------------------------------	--

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE
Irving Venger

DATE
7-31-08

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME Alme	ADDRESS Harvard Blvd, Canton	PHONE NO. (330) 852-2115
VEHICLE I.D. NO. PO05037	STATE OH	BOX NUMBER-IN
		BOX NUMBER-OUT
		JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME
Richard Barnhouse

DRIVER'S SIGNATURE
Richard Barnhouse

DATE
7-31-8

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	------------------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE
Jessica Brode

DATE
7/31/08

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
OPERATOR'S ADDRESS	

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
DISPOSAL FACILITY INVOICING - COPY 4**

RS - COUNTYWIDE RDF
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 909236
Date: 7/31/2008
Time: 14:46:53-14:47:05
Scale

Truck: A972
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 76460LB 2 In Scale
Tare: 33700LB Out PreTare
Net: 42760LB
Net Tons: 21.38

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512710/US ARMY (SOIL FROM

Comment: SOIL

Origin

Materials & Services

Quantity

PORTAGE/PORTAGE COUNTY 100% OF 0148/150 PER TON - 21.38 tons tons

Driver:

Deputy Weighmaster:

JESSICA BODE



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201899**

SECTION 1

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED
 SOIL FACILITY APPROVAL #: 512718

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
--	---------------------------	---------------------------------	--

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE: *Irving Venger* DATE: 7-31-08

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME <i>Acme</i>	ADDRESS <i>Wainwright, Ohio</i>	PHONE NO. <i>1-800-744-4422</i>
VEHICLE I.D. NO. <i>979</i>	STATE <i>OH</i>	BOX NUMBER-IN
		BOX NUMBER-OUT
	PRINT DRIVER'S NAME <i>George House</i>	DATE 7-31-08

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

DRIVER'S SIGNATURE: *George House*

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
---	--	---------------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE: *[Signature]* DATE: 7/31/08

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME _____ PHONE NUMBER _____

OPERATOR'S ADDRESS _____

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type) _____ Signature of Operator's Authorized Agent _____ Date _____

RESPONSIBLE AGENCY NAME AND ADDRESS _____

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS - COUNTYWIDE RDF
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44826

Ticket: 909239
Date: 7/31/2008
Time: 14:50:42-14:50:51
Scale

Truck: A971
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 74740LB 1 In Scale
Tare: 32920LB Out PreTare
Net: 41820LB
Net tons: 20.91

Truck Type: DUMP TRUCK

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM

Comment: SOIL

Origin

Materials & Services

Quantity

PORTAGE/PORTAGE COUNTY 100% OF 0148/LSW PER TON - 20.91 Tons Tons

Driver: *P. M. T. J.*

Deputy Weighmasters

JESSICA BODE



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201900**

SECTION 1 THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS S451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED: **SOIL**

FACILITY APPROVAL #: **512718**

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
--	------------------------------	------------------------------------	---

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE: *Irving Venger*

DATE: **7-31-08**

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME ACME TRUCKING BOARD MAN	ADDRESS	PHONE NO. (330) 441-2522
VEHICLE I.D. NO. 971	STATE OH	BOX NUMBER-IN
		BOX NUMBER-OUT
		JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME: **TRUCK DRIVER T26**

DRIVER'S SIGNATURE: *Truck Driver T26*

DATE: **7-31-08**

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3419 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	------------------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE: *Dessera Kade*

DATE: **7/31/08**

SECTION 4 ASBESTOS (Operator to complete)

Operator is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
-----------------	--------------

OPERATOR'S ADDRESS

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS - COUNTYWIDE RDF
3219 GRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 900998
Date: 7/31/2008
Time: 09:40:16-09:40:39
Scale

Truck: A991
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 72440LB 1 In Scale
Tare: 33180LB Out PreTare
Net: 39260LB
Net Tons: 19.63

Truck Type: DUMP TRUCK

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% of 0148/TSW PER TON -	19.63 Tons - Tons

Driver: [Signature]

Deputy Weighmaster: Laramie Polen



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201901**

SECTION 1

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 14417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED

SOIL

FACILITY APPROVAL #1512718

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
--	------------------------------	------------------------------------	---

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE <i>Irving Venger</i>	DATE 31 July 2008
---	-----------------------------

SECTION 2

THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME Acme	ADDRESS Boardman OH	PHONE NO. (330) 758-2313
VEHICLE I.D. NO. 991/056T	STATE OH	BOX NUMBER-IN
		BOX NUMBER-OUT
		JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME John Jackson T57	DATE 7/31/08
DRIVER'S SIGNATURE <i>John Jackson</i>	

SECTION 3

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3419 GRACEMONT ST., S.W. EAST SPARTA, OH 44826	PHONE NO. (330) 874-3855
--	--	--

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <i>Gerard M. Allen</i>	DATE 7/30/08
--	------------------------

SECTION 4

ASBESTOS (Operator to complete)

Operator is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
OPERATOR'S ADDRESS	

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS - COUNTYWIDE RDF
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 909007
Date: 7/31/2008
Time: 09:51:01-09:51:11
Scale

Truck: A021
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 73840LB 1 In Scale
Tare: 31580LB Out PreTare
Net: 42260LB
Net Tons: 21.13

Truck Type: DUMP TRUCK

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

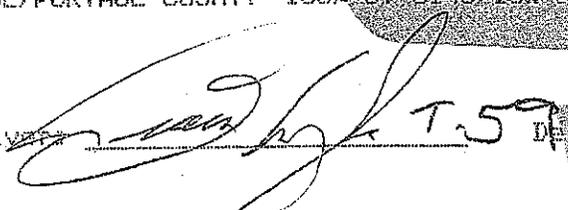
Origin

Materials & Services

Quantity

PORTAGE/PORTAGE COUNTY 100% OF 0148/ISW PER TON - 21.13 Tons Tons

Driver:



Deputy Weighmasters:

Laramie Polen



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201902**

SECTION 1

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE E/BLDG 1037	WASTE I.D. NUMBER 14417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED

SOIL

FACILITY APPROVAL #: **512718**

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME	PHONE NO.	24-HR. EMERGENCY NO.
	IRVING VENGER	(330) 538-7312	(330) 538-7312

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE

Irving Venger

DATE

31 July 2008

SECTION 2

THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME Home	ADDRESS Bowling Green OH	PHONE NO. 800 441 3522
VEHICLE I.D. NO. 021	STATE OH	BOX NUMBER-IN 971
		BOX NUMBER-OUT 971
		JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME

Bruce Wylie T-59

DRIVER'S SIGNATURE

Bruce Wylie

DATE

7-31-08

SECTION 3

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	--

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

Gregory M. Peck

DATE

7/31/08

SECTION 4

ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
OPERATOR'S ADDRESS	

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

FRIABLE

NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS - COUNTYWIDE RDF
3619 BRACKMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 909006
Date: 7/31/2008
Time: 09:50:00-09:50:13
Scale

Truck: A004
Customer: 282/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 76360LB 2 In Scale
Tare: 32460LB Out PreTare
Net: 43900LB
Net Tons: 21.95

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% OF 0148/15W PER TON -	21.95 Tons Tons

Driver: John Anderson Deputy Weighmaster:

Laramie Polen



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201903**

SECTION 1 THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED
SOIL

COMMENTS/FACILITY APPROVAL #
FACILITY APPROVAL #:512718

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330)538-7312	24-HR. EMERGENCY NO. (330)538-7312
--	------------------------------	-----------------------------------	--

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE
Irving Venger

DATE
31 July 2008

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME RCPIE	ADDRESS 9495 HARVARD	PHONE NO. (330) 441-2522
VEHICLE ID NO. 004	STATE OHIO	BOX NUMBER-IN
		BOX NUMBER-OUT
		JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME
JOHN ANDREWS

DRIVER'S SIGNATURE
John Andrews

DATE
7-31-2008

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3617 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	--

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE
Garrett M. Pelt

DATE
7/31/08

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
OPERATOR'S ADDRESS	

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
DISPOSAL FACILITY INVOICING - COPY 4**

RS COUNTYWIDE RDF
3619 GRACEMONT AVE., SW
EAST SPARTA, OH 44626

Ticket: 909005
Date: 7/31/2008
Time: 09:48:52-09:49:03
Scale

Truck: A062
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 77600LB 1 In Scale
Tare: 33620LB Out PreTare
Net: 44060LB
Net Tons: 22.03

Generator: RAVENN/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comments: SOIL

Origin	Materials	Services	Quantity
PORTAGE/PORTAGE COUNTY	100%	0148 TSW PER TON	22.03 tons

Driver: _____

Forbes

Deputy Weighmaster: _____

Laramie Polen



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201904**

SECTION 1

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 3451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED
SOIL

FACILITY APPROVAL #: **512718**

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
--	------------------------------	------------------------------------	---

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE
Irving Venger

DATE
31 July 2008

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME Acme	ADDRESS y. town	PHONE NO. (800) 441 2522		
VEHICLE I.D. NO. PVE 7658	STATE OH	BOX NUMBER-IN	BOX NUMBER-OUT	JOB NO. 12 33 710

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME
Forbes

DRIVER'S SIGNATURE
Forbes

DATE
7-31-08

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	--

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE
William M. Peter

DATE
7/31/08

SECTION 4 ASBESTOS (Operator to complete)

Operator is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME

PHONE NUMBER

OPERATOR'S ADDRESS

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type) _____ Signature of Operator's Authorized Agent _____ Date _____

RESPONSIBLE AGENCY NAME AND ADDRESS _____

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201905**

SECTION 1 THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT		ADDRESS 8451 STATE ROUTE 5/BLDG 1037		WASTE I.D. NUMBER 44417
		CITY RAVENNA	STATE OH	ZIP 44266
NAME OR DESCRIPTION OF WASTE SHIPPED SOIL				
COMMENTS/FACILITY APPROVAL # FACILITY APPROVAL #:512718				

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME	PHONE NO	24-HR EMERGENCY NO.
	IRVING VENGER	(330)538-7312	(330)538-7312

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE: *Irving Venger* DATE: **31 July 2008**

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME ACME		ADDRESS Youngstown Ohio		PHONE NO. 980445422
VEHICLE I.D. NO. 972	STATE OHIO	BOX NUMBER-IN	BOX NUMBER-OUT	JOB NO.
I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.		PRINT DRIVER'S NAME George House	DATE 7-31-08	
		DRIVER'S SIGNATURE <i>George House</i>		

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	--

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE: *Cresswell* DATE: **7/31/08**

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME: _____ PHONE NUMBER: _____

OPERATOR'S ADDRESS: _____

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

RS - COUNTYWIDE RDF
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44826

Ticket: 909023
Date: 7/31/2000
Time: 10:15:29-10:15:39
Scale

Truck: A003
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 74620LB 1-In Scale
Tare: 31350LB Out PreTare
Net: 43260LB
Net tons: 21.63

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512710/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials	Services	Quantity
PORTAGE/PORTAGE COUNTY	100%	0148 TSW PER TON -	21.63 tons tons

Driver:  732

Deputy Weighmaster: _____

JESSICA BODE



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201906**

SECTION 1 THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 2451 STATE ROUTE 5/BLDG. 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED
SOIL

FACILITY APPROVAL # **512718**

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330)538-7312	24-HR. EMERGENCY NO. (330)538-7312
--	------------------------------	-----------------------------------	--

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE
Irving Venger

DATE
31 July 2008

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME Acme	ADDRESS Harvard Blvd Boardman	PHONE NO. (330) 758-2313
VEHICLE I.D. NO. PUN-5037	STATE Oh	BOX NUMBER-IN
		BOX NUMBER-OUT
		JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME
Richard Barnhouse

DRIVER'S SIGNATURE
Richard Barnhouse

DATE
7-31-8

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	--

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE
Jessie A. Bode

DATE
7/31/08

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME

PHONE NUMBER

OPERATOR'S ADDRESS

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type) _____ Signature of Operator's Authorized Agent _____ Date _____

RESPONSIBLE AGENCY NAME AND ADDRESS

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
DISPOSAL FACILITY INVOICING - COPY 4**

RS - COUNTYWIDE RDF
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 909155
Date: 7/31/2008
Time: 13:00:34-13:00:43
Scale

Truck: A964
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 75060LB 1 In Scale
Tare: 32800LB Out PreTare
Net: 42260LB
Net Tons: 21.13

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512718/US ARMY (SOIL FROM
Comment: SOIL

Origin Materials & Services

Quantity

PORTAGE/PORTAGE COUNTY 100% of 0148 TSW PER TON - 21.13 Tons Tons

Driver:

Bill GARVIS

Deputy Weightmasters:

Laramie Polen



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201907**

SECTION 1 THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 14417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED
SOIL

FACILITY APPROVAL #: 512718

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
--	---------------------------	---------------------------------	--

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE: *Irving Venger* DATE: *31 July 2008*

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME <i>CZ Trucking</i>	ADDRESS <i>9495 Harvard Blvd Youngstown OH</i>	PHONE NO. <i>(800) 2141 2522</i>
VEHICLE I.D. NO. <i>964-982T</i>	STATE <i>OH</i>	BOX NUMBER-IN
		BOX NUMBER-OUT
		JOB NO.

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME: *William GARVIS* DATE: *7-31-08*

DRIVER'S SIGNATURE: *William Garvis*

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
---	--	------------------------------------

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE: *Barbara M Allen* DATE: *7/31/08*

SECTION 4 ASBESTOS (Operator to complete)

Operator is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
-----------------	--------------

OPERATOR'S ADDRESS

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
------------------------------	--	------

RESPONSIBLE AGENCY NAME AND ADDRESS

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
DISPOSAL FACILITY INVOICING - COPY 4**

C-Z TRUCKING CO.

9495 HARVARD BLVD., YOUNGSTOWN, OHIO 44514 • 800-441-2522 • FAX 330-758-1324
HEAVY DUTY DUMP TRUCK SERVICE, FLAT BED SERVICE
AND GENERAL COMMODITIES

NO. 147692

DATE 7-31-8

SHIP FROM POINT OF ORIGIN

American Waste
Ravenna Arsenal

SHIP TO DESTINATION

[Signature]

GROSS

DRIVER'S NAME *Clare*

TARE *1 truck No load*

UNIT NO. *022/075T*

NET

WEIGH MASTER

BILL OF LADING NO.

BILLING CODE

ORDER NO:

MATERIAL TYPE

NOTES:

RECEIVED ABOVE MATERIAL IN GOOD CONDITION *Binned*

All claims of any nature must be made within three days in writing
We will in all cases exercise the greatest care in delivering merchandise purchased from us, but owing to inclement weather, unsound conditions of driveways, etc., we can only undertake delivery beyond curb at owner's risk.
Quality Printing Co. 330-744-2588

RS - COUNTYWIDE RDF
3619 GRACEMONT AVE. SW
EAST SPARTA, OH 44626

Ticket: 924479
Date: 9/23/2008
Time: 12:57:54-13:34:43
Scale

Truck: EMERALD206
Customer: 202/AMERICAN WASTE SERVICE
Carrier: MISC/MISCELLANEOUS

Gross: 49280LB 1 In Scale
Tare: 40440LB 2 Out Scale
Net: 8840LB
Net Tons: 4.42

Generator: RAVENNA/RAVENNA ARMY AMMUN

Profile: 512719/US ARMY (SOIL FROM
Comment: SOIL

Origin	Materials & Services	Quantity
PORTAGE/PORTAGE COUNTY	100% of 01/04/ISW PER TON -	4.42 Tons Tons

Driver: 

Deputy Weighmaster:

Laramie Polen



NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. **201892**

SECTION 1 THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME RAVENNA ARMY AMMUNITION PLANT	ADDRESS 8451 STATE ROUTE 5/BLDG 1037	WASTE I.D. NUMBER 44417
	CITY RAVENNA STATE OH ZIP 44266	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE SHIPPED
SOIL

FACILITY APPROVAL # **1512718**

COMMENTS/FACILITY APPROVAL #

IN CASE OF AN EMERGENCY OR SPILL CONTACT	NAME IRVING VENGER	PHONE NO. (330) 538-7312	24-HR. EMERGENCY NO. (330) 538-7312
--	------------------------------	------------------------------------	---

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR SIGNATURE: *Mark Peters*
 DRIVER SIGNATURE: *Irving Venger*

DATE: **23 Sept 08**

SECTION 2 THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME EMERALD ENVIRONMENTAL SVCS.	ADDRESS 1621 ST. CLAIR AVE KENT, OH 44240	PHONE NO. (330) 677-0785
--	---	--

VEHICLE I.D. NO. #206	STATE OH	BOX NUMBER-IN	BOX NUMBER-OUT	JOB NO.
---------------------------------	--------------------	---------------	----------------	---------

I hereby certify that the above described wastes were accepted for transportation at the producer's site and delivered to and off-loaded at the waste facility, both as listed hereupon.

PRINT DRIVER'S NAME: **DAN KUNKEL**
 DRIVER'S SIGNATURE: *Dan Kunkel*

DATE: **9/23/08**

SECTION 3 THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL SITE:

FACILITY NAME REPUBLIC/COUNTYWIDE LANDFILL	ADDRESS 3619 GRACEMONT ST., S.W. EAST SPARTA, OH 44626	PHONE NO. (330) 874-3855
--	--	--

COMMENTS

I hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE: *Charmin M. Polow*
 DATE: **9/23/08**

SECTION 4 ASBESTOS (Operator to complete)

"Operator" is defined as the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

OPERATOR'S NAME	PHONE NUMBER
OPERATOR'S ADDRESS	

RECOMMENDED SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION FRIABLE NON-FRIABLE

Operator's Certification: I hereby warrant and declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and domestic law, regulations, ordinances, orders, rules and/or standards.

Operator's Name (print/type)	Signature of Operator's Authorized Agent	Date
RESPONSIBLE AGENCY NAME AND ADDRESS		

**QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY
 DISPOSAL FACILITY INVOICING - COPY 4**

APPENDIX K
Comment Response Table

**DRAFT REMEDIATION COMPLETION REPORT SUB-SLAB SOILS AT
RVAAP-09 LOAD LINE 2, RVAAP-10 LOAD LINE 3, AND RVAAP-11 LOAD LINE 4
COMMENT RESPONSE TABLE
December 1, 2010**

Comment Number	Page No./ Line No.	New Page or Sheet	Comment	Recommendation	Response
Ohio EPA (Andrew Kocher)					
O-1	General	Table 3-1	Please include a table that lists the Cleanup Goals (CUGS) and the Adjusted CUGS.	Please include this new table. In addition, please add (at the bottom), the definition of each.	Table 3-1 was added to the text of the report. This table lists the CUGs from the IROD and indicates the adjusted CUG for TNT, which was used only in the comparison to field screening sample results. The table includes footnotes indicating in which comparison each CUG was used (i.e., to screening results or MI results).
O-2	Page 1-1 / Lines 13-15		This statement of the purpose was a little vague.	Please add more detail to this paragraph explaining the Ohio Army National Guard's intended future use. In addition, explain the reasoning for only collecting samples to maximum of four feet below ground surface (see Figures 3-1 to 3-5).	The following text was added: <i>"The intended future use of the areas is for National Guard Training activities where the trainee is exposed to surface soil (considered to be 0 to 4 ft. below ground surface, assuming the use of tracked vehicles). Because the exposure is assumed to be to the upper 4 feet of soil, the sampling activities concentrated on that soil horizon."</i>
O-3	Figures 3-1 to 3-5		The figures are stuck into the report and needed too much interpretation. They also seemed to interfere with the text.	Please remove these Figures and place in its own Appendix or attachment. Please add an explanation to these figures on the cover page. Please include details like: when the samples were collected, what purpose do these results tell us (e.g., confirmatory or pre-excavation), were they MI or grab samples, were they	The tables and figures have been integrated in all the RVAAP reports at the direction of the Ohio EPA. It is proposed that they remain integrated to maintain consistency. The additional information requested is within the text in Section 3.1. If it is acceptable to leave tables and figures integrated in the document, then we propose that no additional information be added.

**DRAFT REMEDIATION COMPLETION REPORT SUB-SLAB SOILS AT
RVAAP-09 LOAD LINE 2, RVAAP-10 LOAD LINE 3, AND RVAAP-11 LOAD LINE 4
COMMENT RESPONSE TABLE
December 1, 2010**

Comment Number	Page No./ Line No.	New Page or Sheet	Comment	Recommendation	Response
				laboratory results or screening, are we comparing these results to CUGs or adjusted CUGs, etc?	
O-4	Figure 3-3		The concentrations of TNT appear to increase with depth at Sample LL2DB4-SB-048 and LL2DB4-SB-049SN.	Please explain why this apparent trend and explain why samples were not taken deeper considering this trend.	The scope of this project was limited to sampling in the 0 to 4ft. soil depths. It was recognized, however, that the increasing concentration trend was a data gap. This was stated in the conclusions of the report documenting the field screening results for these load lines. Recognizing the data gap, the USACE has contracted a follow-on project to investigate whether TNT concentrations exceed CUGs at deeper soil intervals.
O-5	Figure 3-3		The figure is titled "Building DB-4/-4WN;" however, building DB-4WN is not shown of the figure.	Please label building DB-4WN on the figure. In general, please review all the figures to make sure all titles reflect the figure itself.	The building label for DB-4WN has been added to Figure 3-3 and to Figure 4-1. The correct building labels are on all the other figures.
O-6	Page 4-1 / Lines 31-35		The paragraph explains that the backfill had come from Patrick Excavating.	Please indicate that the sample from Patrick Excavating correlates with Sample BF002.	The following sentence was added to Section 4.1.3: <i>"Sample BF002 in Appendix B is the sample collected from Patrick Excavating."</i>
O-7	Figures 4-1 to 4-6		Same as O-3.	Same as O-3.	Please see the response to Comment O-3.
O-8	Page 4-14 Table 4-2		The table shows a summary of screening	Please add "Adjusted" in front of "Cleanup Goal." If	The heading for the second column has been revised to read: <i>"TNT, mg/kg"</i>

**DRAFT REMEDIATION COMPLETION REPORT SUB-SLAB SOILS AT
RVAAP-09 LOAD LINE 2, RVAAP-10 LOAD LINE 3, AND RVAAP-11 LOAD LINE 4
COMMENT RESPONSE TABLE
December 1, 2010**

			results. It unclear as whether the CUG or Adjusted CUG was used and why ND is indicated after Building EB-4.	appropriate, please delete the ND after Building EB-4.	<i>(Adjusted Cleanup Goal: 878 mg/kg)</i> ND has been removed from the Building EB-4 line.
O-9	Page B-1 Table B-1		The table indicates the analytical results of samples collected from two backfill companies/locations, but does not distinguish which company/location.	Please add to the table a distinction that indicates which sample was collected from which company/location. Note: this comment is similar to Comment O-6, where assumptions were made that Patrick Excavating correlates with Sample BF002.	The following footnote has been added to Table B-1: <i>“(2) Sample BF001 was collected from Route 5 Sand and Gravel and BF002 was collected from Patrick Excavating.”</i>
Ohio Army National Guard (Katie Tait)					
NG-1	General		Change all references of RTL5 or Ravenna Training and Logistics Site	References should be to Camp Ravenna	All references will be changed to <i>Camp Ravenna</i> .
NG-2	Page 1-4, Figure 1-2		Update Facility Map	Replace figure with new, updated AOC/MRS figure developed by USACE that includes all 81 sites.	Figure 1-2 has been replaced with the new figure furnished by the USACE.