

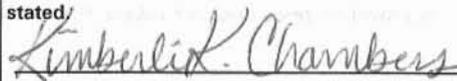
TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE <small>(Read instructions on the reverse side prior to initiating this form)</small>	DATE 5/12/06	TRANSMITTAL NO. 0001
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SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO: U.S. Army Corps of Engineers 502 8th St Huntington, WV 25701 ATTN: Shane Hall	FROM: Kimberlie Chambers WTI Rt 1 Box 33-B Poca, WV 25159	CONTRACT NO. DACW69-02-D-0004 WO#0013	CHECK ONE: <input checked="" type="checkbox"/> THIS IS A NEW TRANSMITTAL <input type="checkbox"/> THIS IS A RESUBMITTAL OF TRANSMITTAL _____
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SPECIFICATION SEC. NO. <i>(Cover only one section with each transmittal)</i>	PROJECT TITLE AND LOCATION Excavation, Ex-Situ Bioremediation and Disposal of Contaminated Soil - Sandusky, OH	CHECK ONE: THIS TRANSMITTAL IS FOR <input type="checkbox"/> FIO <input checked="" type="checkbox"/> GOV'T. APPROVAL
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ITEM NO.	DESCRIPTION OF ITEM SUBMITTED <small>(Type size, model number/etc.)</small>	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO. <small>(See instruction no. 8)</small>	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION <small>(See instruction No. 6)</small>	FOR CE USE CODE
				SPEC. PARA. NO.	DRAWING SHEET NO.			
a.	b.	c.	d.	e.	f.	g.	h.	i.
1	Final Interim Soil Removal Action Report PRRWP		7					

REMARKS	I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated.  NAME AND SIGNATURE OF CONTRACTOR
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SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED <i>(List by Item No.)</i>	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

FINAL
INTERIM SOIL REMOVAL ACTION REPORT
Excavation, Ex-Situ Bioremediation, and Disposal of Contaminated Soil
Plum Brook Ordnance Works
Pentolite Road Red Water Ponds
Sandusky, Ohio

Contract No. DACW69-02-D-0004
Work Order No. 013

Prepared for:

Department of the Army
Huntington District, Corps of Engineers
Huntington, WV

Prepared by:

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May 2006

WTI Project # WT5536

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DEFINITIONS AND ACRONYMS

BTEX	Benzene, Toluene, Ethylbenzene, Xylene
COC	Contaminant of Concern
COCs	Contaminants of Concern
DERP-FUDS	Defense Environmental Restoration Program for Formerly Used Defense Sites
DNB	Dinitrobenzene
DNT	Dinitrotoluene
DOD	Department of Defense
DRO	Diesel Range Organics
EPA	Environmental Protection Agency
FS	Feasibility Study
GRO	Gasoline Range Organics
GSA	General Services Administration
HAZWOPER	Hazardous Waste Operations and Emergency Response
HI	Hazard Index
HTRW	Hazardous, Toxic, and Radioactive Waste
HSWA	Hazardous and Solid Waste Amendments of 1984 to the Resource Conservation and Recovery Act
IDW	Investigation Derived Waste
ILCR	Incremental Lifetime Cancer Risk
IQCT	Independent Quality Control Team

DEFINITIONS AND ACRONYMS - Continued

ISRA	Interim Soil Removal Action
IT	International Technology Corporation
MSL	Mean Sea Level
NASA	National Aeronautics and Space Administration
NIOSH	National Institute for Occupational Safety and Health
NPDES	National Pollutant Discharge Elimination System
NTCRA	Non-Time Critical Removal Action
ORO	Oil Range Organics
PBOW	Plum Brook Ordnance Works
PBS	Plum Brook Station
POC	Point of Contact
PQL	Practical Quantitation Limit
PPE	Personal Protective Equipment
PRGs	Preliminary Remediation Goals
QC	Quality Control
QCP	Quality Control Plan
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
SOW	Scope of Work
SSHO	Site Safety and Health Officer
SSHP	Site-Specific Safety and Health Plan

DEFINITIONS AND ACRONYMS - Continued

TCLP	Toxicity Characteristic Leaching Procedure
TNB	Trinitrobenzene
TNT	2,4,6-Trinitrotoluene
TPH	Total Petroleum Hydrocarbons
TSDF	Treatment, Storage, and Disposal Facility
UCL	Upper Confidence Limit
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
WTI	WasteTron, Inc

EXECUTIVE SUMMARY

The 9,009-acre former Plum Brook Ordnance Works (PBOW) site is located approximately 4 miles south of Sandusky, Ohio and 59 miles west of Cleveland, Ohio. It is located primarily in Perkins and Oxford Townships, the eastern edge of the site extends into Huron and Milan Townships. The National Aeronautics and Space Administration (NASA) acquired the property in 1963 and currently occupies the site. NASA uses the site to conduct space research as a satellite operation of the John Glenn Research Center.

The United States Army built former PBOW in early 1941 as a manufacturing plant for 2,4,6-trinitrotoluene (TNT), dinitrotoluene (DNT), and pentolite. Production of explosives continued until 1945. It is estimated that more than 1 billion pounds of nitroaromatic explosives were manufactured during the 4-year operating period. Three separate explosive manufacturing areas were designated, TNT Area A (TNT A), TNT Area B (TNT B), and TNT Area C (TNT C).

PBOW Pentolite Road Red Water Ponds (PRRWP) consists of an area of approximately 9 acres located at the north-central portion of former PBOW. PRRWP is located just south of Pentolite Road, southeast of the former Pentolite Area and approximately one mile north of TNT B. Wastewater from TNT A and B was sent by wooden flumes and ceramic pipes to the Wastewater Treatment Plant #1 which were located about 700 feet east of the PRRWP. The wastewater was then discharged from Wastewater Treatment Plant #1 through pipes to the PRRWP. Original PRRWP construction plans indicate pond dimensions of 200 feet (200') wide (East-West distance) by 400' long by 3' deep with a 1' high levee.

This Interim Soil Removal Action (ISRA) Report addresses soil contamination at PBOW PRRWP as described in the *PRRWP Final Action Memorandum* (WTI, 2003) and documents the completion of the Soil Removal Action administered under the Defense Environmental Restoration Program for Formerly-Used Defense Sites (DERP-FUDS) program. Characterization activities at the PBOW site, specifically PRRWP, have indicated soil and groundwater contamination resulting from past waste disposal at the site. The *PRRWP Final Action Memorandum* (WTI, 2003) identified soil remediation goals for the Contaminant of Concern (COC). The COC was identified as a nitroaromatic, specifically, TNT. TNT existed in surface soil, subsurface soil, and groundwater; however, surface water and sediment were not found to be contaminated.

The overall objective of the Interim Soil Removal Action for PRRWP was to minimize threats to, and provide adequate protection to, human health and the environment from exposure to contaminants in soil. The remedial objectives identified for soils at PRRWP were:

- 1) Minimize the potential for human exposure via incidental ingestion, dermal contact, and inhalation of soil contaminated with nitroaromatics.
- 2) Minimize the potential for nitroaromatics to migrate from soil at the site to the groundwater.

Based on the analysis of remedial alternatives presented in the *PRRWP Final Action Memorandum* (WTI 2003), the selected remedy for the PRRWP site soil was excavation,

stabilization, and offsite disposal. In general, the primary elements of the selected remedy included the following:

- Excavation of soil containing contamination above the established Preliminary Remediation Goal (PRG).
- Confirmatory sampling conducted to determine the limits of excavated areas.
- Excavated areas backfilled and regraded with clean fill.
- Ex-situ stabilization of soil containing contamination above the established PRGs.
- Stabilized soil transported to a permitted disposal facility.

This proposed approach for a remedy was used at PRRWP for soils in which the concentration of the COC exceeded the PRG. It is significant to note that based upon findings from the recently completed excavations at PBOW TNT B, ex-situ bioremediation (composting) was used instead of stabilization. And as with TNT B, a Hazard Index (HI) calculation was performed and if determined to be less than one (<1.0) the excavation would be considered "clean" for closure.

The risk assessment calculations done as part of the Remedial Investigation/Feasibility Study (RI/FS) estimated that the area of contamination consisted of a 20' X 20' X 10' area requiring excavation of approximately 148 cubic yards of contaminated soil. The excavation was only completed to a depth of 8' because groundwater was encountered. Approximately 118 cubic yards of soil were removed and taken to the area where the TNT B ex situ bioremediation was taking place.

TNT EnSys® Soil Test System was used to field screen for nitroaromatics to determine if all of the contaminated soil was removed. The field screening limit was 2.75 mg/kg. After field screening of the four walls and the floor of the 20' X 20' X 8' excavated area, it was evident that contamination existed beyond the 20' X 20' area. Confirmation samples were collected from the four walls and the floor of the excavated area. The HI calculated from the walls and floors of the excavation was 42.78, which greatly exceeded the HI of <1.0 .

Due to funding limitations, exploratory test pits were used in place of continued excavation to determine the horizontal limits of the contamination. Test pit activities were conducted 10' feet from the original 20' X 20' excavation and 10' to 20' from the excavated test pits until field screening characterized the soil below the PRG. Once the horizontal limits of contamination were found, confirmation samples were collected from the outer walls of the perimeter test pits and the HI was calculated. The calculated HI from the outer walls of the horizontal limit test pits was 0.39, which is below the acceptable limit of <1.0 .

1. Following the test pit activities, confirmation sampling and the calculation of the HI, it was determined that the original extent of contamination was grossly underestimated. Further excavation is necessary to minimize threats to, and provide adequate protection to, human health and the environment from exposure to the nitroaromatic contamination in soil. In addition to the original excavation of 118 cubic yards of soil, approximately 7600 cubic yards of additional excavation will be required to remediate PRRWP. Upon over excavation, it is recommended that a No Further Action Decision Document be prepared for the soils at PRRWP, recommending no further action and requesting closure.

FINAL
INTERIM SOIL REMOVAL ACTION REPORT
Excavation, Ex-Situ Bioremediation, and Disposal of Contaminated Soil
Plum Brook Ordnance Works
Pentolite Road Red Water Ponds
Sandusky, Ohio

Contract No. DACW69-02-D-0004
Work Order No. 013

1.0 INTRODUCTION

The purpose of this Interim Soil Removal Action (ISRA) Report is to discuss soil remediation at the former Plum Brook Ordnance Works (PBOW) Road Red Water Ponds (PRRWP) site as described in the *PRRWP Final Action Memorandum* (WTI 2003). The selected remedy for contaminated soil at the PRRWP site was excavation, ex-situ stabilization of soil, offsite disposal of the stabilized soil as non-hazardous waste, and backfilling using clean fill material. Approximately 148 cubic yards of soil from an area of 20' X 20' X 10' was estimated to require stabilization. Upon completion of the ISRA, site closure will be requested.

The purpose of this ISRA Report for soil remediation is to document the completion of the Soil Removal Action administered under the Defense Environmental Restoration Program for Formerly-Used Defense Sites (DERP-FUDS) program.

1.1 Site Location and Description

The former PBOW is located approximately 4 miles south of Sandusky, Ohio and 59 miles west of Cleveland, Ohio. Although the PBOW site is primarily situated in Perkins and Oxford Townships, the eastern edge of the site extends into Huron and Milan Townships. The site is bounded on the north by Bogart Road, on the south by Mason Road, on the west by County Road 43, and on the east by U.S. Highway 250. The surrounding area is mostly agricultural and residential.

PBOW is situated mainly on undisturbed forestland and contains paved roadways as well as rail lines. The National Aeronautics and Space Administration (NASA) research facilities occupy a portion of the former PBOW. The entrance to the site is located at the intersection of Taylor Road and Columbus Avenue. NASA maintains 24-hour security services at the site. PBOW PRRWP consists of an area of approximately 9 acres at the north-central portion of former PBOW. PRRWP is located just south of the Pentolite Road and southeast of the former Pentolite Area and approximately one mile north of the PBOW TNT B site.

1.1.1 Topography

The terrain of the site is relatively flat resulting from glacial and lacustrine deposits from past glacial activities. The site slopes northward toward Lake Erie with an average slope of the ground surface of less than 6%. Elevations at the site range from approximately 625 feet above mean sea level (MSL) in the north to about 675 feet above MSL in the southern and western parts of the site. The natural flat terrain of the site has been disturbed by the construction of basins, berms, and other earthen structures associated with the anthropogenic activities at the site.

1.1.2 Geology

The PBOW site is located on the glacial lacustrine plain of ancient Lake Maumee. The glacial deposits are underlain by an eastward dipping sequence of Paleozoic carbonate and clastic sedimentary rocks ranging in age from the Cambrian to Devonian periods. The bedrock at the site consists primarily of limestone, dolomite, and shale. The depth to bedrock across the site varies from zero to more than 25'.

1.1.3 Hydrology and Hydrogeology

Several ponds (natural and man-made) and streams are located on the PBOW site. Lake Erie and Sandusky Bay are the largest nearby surface water bodies. They are located approximately 3.5 miles to the north of the site. The Huron River and its associated tributaries are the major streams in the area.

Numerous man-made ditches are located at the site and drain into the various streams on the property. There are 11 streams that pass through or originate on the site. The streams flow northward towards Lake Erie. The streams apparently receive part of their flow from ground water. All streams may have zero or near zero flow during severe winter freezes and extended summer droughts. NASA currently monitors three of the streams including, Plum Brook, Ransom Brook, and Kuebelar Ditch for discharge limits pursuant to the National Pollutant Discharge Elimination System (NPDES). There are 17 isolated ponds and reservoirs located at the site. The pond levels generally remain high even during dry months, which suggest that the ponds are fed by shallow surficial ground water.

There are two principal bedrock aquifers in the PBOW area, both of which supply drinking water to portions of Erie County. A highly productive limestone aquifer is in use in the western part of the county while a shale aquifer is used in the east. The transition between the two aquifers occurs beneath the site. The direction of groundwater flow at the site is generally in a northern direction towards Lake Erie. The depth to groundwater varies over the site, but most groundwater elevations range between 5' and 10' below the ground surface.

1.1.4 Pentolite Road Red Water Ponds

During the operation of the site by the Department of Defense (DOD), process wastewater resulting from the purification of the TNT was discharged to various settling ponds (West Area Red Water Ponds and the PRRWP) at the site. This wastewater (referred to as “red water” because of its color) was transported to a wastewater treatment and incineration area and discharged via wooden flumes and elevated discharge pipes into the settling ponds. The PRRWP are located in the north central part of the site, and were approximately 200’ by 400’ and had a maximum capacity of 182,000 cubic yards of wastewater. NASA had the PRRWP filled in 1977 following a breach of the ponds.

1.2 Site History

The 9,009-acre PBOW site was built in early 1941 as a manufacturing plant for TNT, DNT, and pentolite. Production of explosives at PBOW began in December 1941 and continued until 1945. It is estimated that more than 1 billion pounds of nitroaromatic explosives were manufactured during the 4-year operating period.

The NASA acquired the property on March 15, 1963 and currently utilizes the site as the Plum Brook Station (PBS) of the John Glenn Research Center. Most of the aerospace testing facilities at the site were built in the 1960’s and are currently in standby or inactive status. On April 18, 1978, NASA declared approximately 2,152 acres of PBOW as excess. The Perkins Township Board of Education acquired 46 acres of the excess acreage and uses this area as a bus transportation area. The remaining excess acreage in the Southwest area was sold to various private concerns. NASA currently controls approximately 6,400 acres of land which includes approximately 5,400 acres within the fence line. Of the acreage inside the fence line, NASA has a use agreement with the Ohio National Guard for 604 acres and the remainder is utilized for aerospace research as a satellite operation of the Glenn Research Center. The acreage outside the fence remains part of the test facility exclusion zone and is leased to various farmers and the Erie County Conservations League.

The GSA performed decontamination efforts during 1963 to facilitate land transfer to NASA. An April 1977 memorandum (Teledyne Isotopes, 1977) stated that PBS personnel discovered red-brownish water coming from an area of broken drain tile associated with the PRRWP. The memorandum stated that PRRWP associated dikes, sump pits, and 60,000 gallons of red water were removed, the ponds backfilled, and grading and draining improvements were made to alter runoff patterns.

The PRRWP is located just south of the Pentolite Road and southeast of the former Pentolite Area. Wastewater from TNT manufacturing areas A and B was

sent by wooden flumes and ceramic pipes to the Wastewater Treatment Plant #1 which was located about 700' east of the PRRWP. The wastewater was then discharged from the Disposal Plant #1 through pipes to the PRRWP.

1.3 Previous Investigations

Beginning in 1989, environmental investigations have been performed at the PRRWP area to confirm the presence of contamination and determine the type and extent of contamination. These investigations were conducted after PBS workers discovered rust colored water in the vicinity of the PRRWP.

1.3.1 1991 Investigation of Overburden Groundwater and Soil

In 1991, a Contamination Evaluation Report (IT, 1991) investigated overburden groundwater (MW-05) and soil resulting in the discovery of 2,4-DNT and 2,6-DNT in soil (Dames and Moore, 1997).

1.3.2 1993 Pentolite Road Drainage Ditch Inspection

In 1993, a site inspection was conducted which investigated the PRRWP drainage ditch, adjacent to Pentolite Road, surface water and sediment. No samples showed detectable levels of contamination.

1.3.3 Overburden and Groundwater Analysis

Overburden and bedrock groundwater had been investigated by Dames and Moore in 1994, and IT from 1996, 1997, and 1998. Nitroaromatics were detected in both overburden (MW-07,-08, and -09) and bedrock wells (Bed-15 and -16).

1.3.4 Remedial Investigation/Feasibility Study

To provide a basis for taking action at this site, a Focused Remedial Investigation (RI) was completed in 1997 by Dames and Moore, Risk Assessment and Direct Push Investigation was completed in 2001 by IT, and a feasibility study (FS) was completed in 2002. This group of investigations will collectively be referred to as the RI/FS throughout the report. There were 20 surface soil samples, 39 sub-surface soil samples, and 20 direct-push groundwater samples in the PRRWP associated with the RI. Four co-located surface water and sediment samples, two in the east to west ditch and two in the east to southeast ditch. 1,3,5-Trinitrobenzene TNB, 1,3-Dinitrobenzene DNB, 2,4,6-TNT, 2,4-DNT, 2,6-DNT and 4-amino-2,6-DNT were in 11 samples. 1,3,5-TNB, 1,3-DNB, 2,4-DNT, 2,6-DNT, and tetryl were detected in groundwater direct push samples. Nitroaromatics were not detected in surface water samples. The RI/FS revealed that the contaminated material located in the PRRWP area presented an unacceptable risk to human health and the environment through exposure to TNT contaminated soils.

1.4 Final Action Memorandum

The purpose of the *PRRWP Final Action Memorandum* (WTI 2003) was to set forth the selected response action for the PRRWP. The USACE was the responsible authority under the DERP at the PRRWP. Based on the results of the completed RI/FS for soils, the USACE conducted a Non-Time Critical Removal Action (NTCRA) in the former PRRWP Area. As recommended in the Final Action Memorandum, actions were taken to prevent human exposure to site soil containing TNT, the COC at concentrations that exceeded the remediation goal. The removal action also served to reduce potential ecological hazards. The remediation goal was chemical- and receptor-specific risk based remedial criteria that captured all the exposure assumptions and toxicological data used in the PRRWP risk assessment. The proposed removal action consisted of the excavation of approximately 148 cubic yards of material, backfilling of the excavation pit with clean material, ex-situ stabilization of the excavated material, and off-site disposal of stabilized waste.

1.4.1 Selected Soil Removal Action

Based on the analysis of remedial alternatives presented in the *PRRWP Final Action Memorandum* (WTI 2003), the selected remedy for the PRRWP site soil was excavation, ex-situ stabilization, and offsite disposal of soil from the area in which the concentration of the COC in the soil exceeded the PRG. In general, the primary elements of the selected remedy included the following:

- Excavation of soil containing contamination above the established PRG.
- Confirmatory soil sampling conducted to determine whether all nitroaromatic-contaminated soil above the established PRG had been removed.
- Excavated areas backfilled, regraded with clean fill and seeded, Ex-situ stabilization of soil containing contamination above the established PRG.
- Stabilized soil transported to a permitted disposal facility.

This method was chosen to remove areas of contaminated soil to reduce further groundwater contamination. Other proposed remedies included excavation and disposal of all contaminated soils, ex-situ bioremediation, in-situ oxidation, and no action.

2.0 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

Characterization activities at the PBOW site, specifically PRRWP, have indicated soil contamination resulting from past processes at the site. *PRRWP Final Action Memorandum* (WTI 2003) identified the soil remediation goal for TNT, the nitroaromatic COC identified at this site.

The *PRRWP Final Action Memorandum* (WTI 2003) addressed soil contamination only. WTI was contracted to perform the ISRA for the soil contamination. The elements of the selected remedy(s) were presented in

PRRWP Final Action Memorandum (WTI 2003). The overall objective of the Soil Removal Action for the PBOW site was to minimize threats to, and provide adequate protection to, human health and the environment from exposure to contaminants in soil. The remedial objectives identified for soils at the PBOW site were:

- 1) Minimize the potential for human exposure via incidental ingestion, dermal contact, and inhalation of soil contaminated with nitroaromatics. PRG values are used to insure that the potential for human exposure is minimized. The PRG values are calculated based on risk assessments conducted during the RI/FS.
- 2) Minimize the potential for nitroaromatics to migrate from soil at the site to the groundwater. This migration potential is measured using the toxicity characteristic leaching procedure (TCLP) developed under the RCRA guidelines, which simulates the contaminants leaching from soil to groundwater.

The soil objectives were designed to sufficiently address the principal threats at this site, which were nitroaromatics.

2.1 Preliminary Remediation Goals

Based upon the RI/FS Investigation the only COC for the site was TNT, therefore only one PRG was established for PRRWP. The PRG was based on residential usage of the site in the future. Refer to Table 1 for the COC PRG for this site.

Table 1 - Contaminant of Concern

Contaminant of Concern	PRG (mg/kg) ¹
Nitroaromatics	
TNT	13.8

¹ mg/kg=milligram per kilogram

2.2 Resource Conservation and Recovery Act

The PRG for PRRWP was established to minimize the potential for human exposure to the COC. However, the PRG does not correlate with the toxicity of the COC within excavated soil, and cannot be used to determine whether excavated soil is hazardous. Therefore the toxicity of the excavated soil must be determined in addition to the comparison with the established PRG for the site.

Subtitle C of the Federal Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments (HSWA) of 1984, authorizes the EPA to regulate the management of hazardous wastes. The designation of a waste as hazardous subjects all those charged with managing that waste to the stringent "cradle-to-grave" requirements of RCRA Subtitle C. It is crucial, therefore, for all those managing wastes to properly identify them and

determine whether or not those wastes are in fact "hazardous". There are four kinds of hazardous wastes as defined by Subtitle C of RCRA:

- Solid wastes, which exhibit hazardous characteristics (i.e., ignitability, corrosivity, reactivity, or toxicity).
- Solid wastes specifically listed by the Agency as being hazardous.
- A waste that is considered a declared waste.
- A waste mixed with a known hazardous waste.

The toxicity characteristic identifies wastes that are most likely to leach hazardous concentrations of certain toxic contaminants into groundwater under improper storage conditions. The toxicity of a waste can be determined by applying the TCLP, a test designed to simulate the leaching of toxic contaminants. Full TCLP analysis (volatiles, semi-volatiles, metals, herbicides, and pesticides) has been performed on all soil and investigation derived waste (IDW) that was removed from the project site. Analytical data from the TCLP analysis was compared to the RCRA regulatory levels for TCLP contaminants.

2.3 Hazard Index

In addition to the PRG established for PRRWP, a HI calculation was also performed. In consultation with the USACE and with approval of the Ohio EPA, it was determined that a HI of less than one (<1.0), calculated at the horizontal extent (perimeter) of PRRWP, would indicate that the site no longer posed a threat to human health or the environment and could be considered "clean" for closure.

The hazards to human health and the environment associated with a contaminated site correspond to the hazards associated with each COC identified at the site. Laboratory analysis determines the concentration of the COC, and the hazard assigned to a COC is called a Hazard Quotient (HQ). HQ's are found by multiplying the COC by a risk-based multiplier. To quantify the hazard of a COC, the highest concentration present for each COC is used. The highest concentration is used rather than an average so that the greatest hazard associated with a site is reported. The HI for the site is found by adding the HQ of each COC. This resultant HI represents the total degree of hazard to human health and the environment associated with the site.

3.0 PENTOLITE ROAD RED WATER POND PROJECT ACTIVITIES

The proposed approach for the selected remedy at PRRWP area was excavation, ex-situ stabilization (where needed) and off-site disposal of the soil from the area in which the concentration of COC in the soil exceeded the PRG. The estimated amount of soil to be removed from the 20' X 20' X 10' site was 148 cubic yards. However, the site was excavated to 8' rather than 10' because groundwater was encountered, which reduced the actual excavation total to approximately 118 cubic yards. The 118 cubic yards of excavated soil was stockpiled and analyzed. The TCLP analysis of the stockpiled soil suggested that the excavated soil was

hazardous. Initially, the soil was profiled for disposal at a hazardous waste disposal facility (Waste Management, Model City, New York). However, in consultation with the USACE POC and with approval of the Ohio EPA, it was determined that the soil could be disposed of more cost effectively through windrow composting (ex-situ bioremediation), already in progress at the TNT B site. Therefore, ex-situ stabilization was not necessary and ex-situ bioremediation was used to reduce the COC from the soil and allow for disposal at a non-hazardous landfill. Refer to Section 4, for detailed information regarding contaminated soil characterization and disposal.

Following the 20' X 20' X 8' soil excavation, it was determined that based on the results of the confirmation samples from the original pit walls that the amount of soil requiring excavation was drastically underestimated in the RI/FS. Under Contract No. DACW69-02-D-0004, Work Order No. 013, test pit activities were conducted to find the horizontal limits of contamination and to determine the extent to which the PRRWP area would need to be excavated.

The following sections will describe the project activities during the excavation, ex-situ bioremediation, and disposal of contaminated soil at PRRWP. These activities include abatement of proximal monitoring wells, borrow area sampling, preparation of the stockpile area, field screening and confirmatory sampling of the original excavation, field screening of test pit activities, confirmatory sampling of proposed excavation horizontal limits, site restoration, excavated soil characterization (stockpile characterization), sampling and analysis of the composted (ex-situ bioremediated) soil, and disposal of composted soil. In addition, the following sections will detail the parameters used to evaluate the remediation of PRRWP such as TCLP testing and HI calculations.

3.1 Monitoring Well Abandonment

In addition to the soil removal, monitoring wells PB-BED-MW27 AND PRMW-08 were abandoned in accordance with Ohio state regulations and requirements of EM 1110-1-4000, Monitoring Well Design, Installation, and Documentation at Hazardous Toxic, and Radioactive Waste Sites.

3.1.1 Monitoring Well PB-BED-MW27 Abandonment

Monitoring well PB-BED-MW27 was located in the northern most portion of PBOB. Due to its location, it was the final point to measure the contamination before it traveled off-site. However, due to its proximity to the nearby residential area, it became a nuisance for the residents, who could not live normal lives because of the offensive, hydrogen sulfide gas odors associated with the well. Following meetings and several discussions with the Ohio EPA and NASA, it was determined that monitoring well MW-22 could serve the same purpose as PB-BED-MW27, therefore allowing PB-BED-MW27 to be abandoned prior to excavation. Belasco Drilling Company of Columbus, Ohio abandoned monitoring well PB-BED-MW-27 on January 6, 2003. Refer to Appendix E for a

copy of the well abandonment form submitted to the Ohio Department of Natural Resources.

Care was taken when removing the plug from the PB-BED-MW27 because of a potential for pressure build-up in the well from hydrogen sulfide gas. Prior to grouting, the groundwater was purged from the well (the well had a very low recharge rate) using a 3-inch bailer to remove the black, smelly hydrogen sulfide contaminated water.

3.1.2 Monitoring Well PRMW-08 Abandonment

Monitoring well PRMW-08 was abandoned because of its proximity within PRRWP. PRMW-08 was located within the PRRWP original excavation and required abandonment prior to the excavation of contaminated soil in the area. Belasco Drilling Company of Columbus, Ohio abandoned monitoring well PRMW-08 on January 7, 2003. Refer to Appendix E for a copy of the well abandonment form submitted to the Ohio Department of Natural Resources.

3.2 Borrow Area Soil Sampling

Borrow material was obtained from the Barnes Nursery property where the borrow soil for the TNT B area had been taken. The borrow area had previously been sampled and analyzed in accordance with Contract No. DACW69-00-D-0021, Work Order No. 020; therefore, additional sampling and analysis was not required to use the soil.

3.3 Storage and Staging Areas

WTI used their office trailer currently on-site at the adjacent TNT B area for this project. A portion of this office was used as a laboratory for field screening of samples. IDW drums and other project materials (plastic, sampling equipment, decontamination water, and so forth) were stored in the storage area currently used for TNT B area. This storage area was located behind the office trailer. WTI stored backfill material on-site adjacent to the stockpile area.

WTI excavated a small depression in the stockpile area after clearing and grubbing operations. The depression was lined with 3 layers of 6-mil plastic (See Figure 2). A small berm was constructed with clean soil around the perimeter of the depression. The excavated soil was placed on the plastic and then covered with 6-mil plastic for storage until analytical results were obtained.

FIGURE 1 - STOCKPILE AREA



3.4 Nitroaromatic Contaminated Soil

Initially, the soil from PRRWP was expected to be non-hazardous; however after review of the TCLP stockpile analysis it was evident that the excavated soil was hazardous (concentrations of 2,4-DNT exceeded 0.13 mg/l). Therefore, ex-situ bioremediation (composting), which was already being conducted for the TNT B area, was chosen. Soil Composting was the best method to treat the nitroaromatic soil (rather than stabilization as in the scope of work) to reduce the nitroaromatic-contaminated soil to non-hazardous levels, and thus allowing (non-hazardous) disposal at a local landfill rather than at a hazardous waste landfill/treatment facility. Soil Composting decreases off-site risk by reducing the levels of 2,4-DNT in the soil to non-hazardous levels on-site prior to off-site disposal, thus lowering the potential for contaminants to leach into groundwater at an off-site facility. The composting of both TNT B and PRRWP contaminated soils were conducted simultaneously; however, the TNT B and PRRWP soils were kept separate.

3.4.1 Survey of Proposed Excavation Areas

WTI retained Mountain State Company to perform surveying of the PRRWP excavation area. After Mountain State performed the initial survey, WTI submitted the survey information with a digging permit form to the PBS POC. WTI did not perform intrusive activities until NASA issued a digging permit.

3.4.2 Initial Excavation Activity

In January 2003, WTI used a track-mounted excavator to excavate the area to the horizontal limits described in the RI/FS, as marked by Mountain State Company in their site pre-survey and to a depth of 8 feet rather than 10 feet due to groundwater. WTI removed approximately 144.6 tons (118 cubic yards) of contaminated material from the PRRWP area. As the contaminated soil was removed, it was transported by dump trucks to the staging area where it was stockpiled on 6-mil plastic for subsequent sampling for disposal purposes. Refer to Section 4 of this report for information on the initial sampling and confirmation sampling of the stockpiled area. Refer to Table 2 below for a summary of the proposed excavation volumes versus the actual excavation volumes.

Table 2 - Excavation Volumes for Nitroaromatic Contaminated Soil

Proposed Excavation ¹			Actual Excavation ²	
Location	Contaminant	Contaminated Soil to be Removed (yd ³)	Contaminated Soil Removed (yd ³)	Contaminated Soil Removed (tons)
Pentolite Road Red Water Pond	Nitroaromatics	148	118	144.6

¹Proposed excavation values are those listed in Section 3.6.1 of the initial Scope of Work

²Actual excavation values are those determined through surveying

3.4.3 Original Excavation Field Screening

Once the limits of the original proposed excavation had been reached, WTI used the TNT EnSys® Soil Test System for field screening to determine if the limits of contamination had been reached. Samples for field screening were composited to limit the time and cost associated with the screening. Samples for field screening and for laboratory confirmation were collected from the excavator bucket using a trowel and/or shovel. Samples were taken from the middle of the floor or wall, unless there were noticeable dark spots in the soil. Specifically, most samples were taken from a black seam approximately 4' below ground surface. This black seam is suspected to be the bottom of the former Pentolite Road Red Water pond prior to it being backfilled. Refer to Figure 3 on the following page for an image of the original excavation including the black seam. The field screening criteria for nitroaromatics was initially set at 2.75 mg/kg. The field screening data revealed that over excavation due to nitroaromatic contamination was necessary. Refer to Table 3 on the following page for the original excavation field screening results. The field screening data was supported by laboratory analytical data the revealed high levels of TNT, refer to section 3.4.4 for detailed information on the initial excavation confirmation sampling.

Table 3 – Original Excavation Field Screening Results

Sample Description	Sample Date	Sample ID Number ¹	Field Screening ² (mg/kg)	Confirmation Sampling (mg/kg)
PRWWP				
Floor	1/15/03	NA ³ 5536-001	ND ⁴ ND ⁴	13.7
South	1/15/03	5536-006	29.85	317.0
West Wall	1/15/03	NA ³	22.72	
West Wall	1/15/03	5536-005	2.01	6.88
East Wall	1/15/03	5536-007	ND ⁴	1440.0
North Wall	1/15/03	5536-004	3.7	9.3

1 Sample identification numbers assigned to samples sent to the laboratory for results

2 Field screening data for total nitroaromatics was collected using TNT EnSys® Soil Test System. The EnSys® system is a colorimetric kit that detects nitroaromatic compounds.

3 NA=Not Applicable

4 Not Detected at a concentration above 0.70 mg/kg.

FIGURE 2 - 20 X 20 X 8 EXCAVATED AREA

*****Notice the black seam approximately four feet below ground surface, this seam is the suspected floor of the Pentolite Road Red Water Pond**



FIGURE 3 – ORIGINAL 20 X 20 X 8 EXCAVATION

*****Notice the dark seam approximately four feet below ground surface as described in Figure 2.**



3.4.4 Confirmatory Sampling of Original Excavation Area

The USACE POC directed confirmation sampling of the walls and floor of the original excavated area to be collected because the field screening data indicated the presence of contamination. Samples for laboratory confirmation were collected from the four walls and the floor. The samples were analyzed for total nitroaromatics. All samples contained varying concentrations of nitroaromatics; however, only the east and south wall samples contained TNT in excess of the PRG of 13.8 mg/kg that had been established for the site. Sample 5536-006 (south wall) had a TNT concentration of 317 mg/kg and sample 5536-007 (east wall) had a concentration of 1,440mg/kg. HI calculation were performed on these confirmation sampling results based on the highest COC concentration, which was 1,440 mg/kg. The HI for 1,440 mg/kg was 42.78, which greatly exceeded the acceptable limit of an HI of 1 or less. Refer to Table 6 and Section 3.6 for details on the original HI calculation.

3.4.5 Conclusion of Original Excavation

Due to the underestimation of the contamination extent, meaning the samples from the walls and floor of the original excavation came back “hot” (above 13.8 mg/kg), additional excavation was needed to find the horizontal extent of contamination. WTI was contracted to investigate the horizontal limits of contamination. Due to limited funding, test pit activities were conducted to reduce cost rather than extended excavation. Test pit activities were conducted 10 feet from each side of the original 20’X 20’ excavated pit and 10’ to 20’ from the excavated test pits. Test pit activities were conducted until the sample came back below the PRG of 13.8 mg/kg. Refer to Section 3.5 for details of the test pit activities.

FIGURE 4-TYPICAL VIEW OF COLLECTING SOIL SAMPLES



Table 4 - Summary of Original Excavation Confirmatory Sampling Results

Sample Identification	5536-001		5536-004				Preliminary Remediation Goals (PRGs) ¹
Sample Description	Pentolite Road Red Water Pond Floor		Pentolite Road Red Water Pond North Wall				
Sample Collection Date	1/15/03		1/15/03				
Nitroaromatics	mg/kg	PQL²	mg/kg	PQL²			mg/kg
1,3,5-Trinitrobenzene	18.0	0.500	39.0	0.500			--- ⁴
1,3-Dinitrobenzene	10.7	0.500	14.7	0.500			--- ⁴
2,4,6-Trinitrotoluene	13.7	0.500	9.30	0.500			13.8
2,4-Dinitrotoluene	ND ³	0.500	ND ³	0.500			--- ⁴
2,6-Dinitrotoluene	ND ³	0.500	4.88	0.500			--- ⁴
2-Amino-4,6-dinitrotoluene	ND ³	0.500	ND ³	0.500			--- ⁴
2-Nitrotoluene	ND ³	0.500	ND ³	0.500			--- ⁴
3-Nitrotoluene	ND ³	0.500	ND ³	0.500			--- ⁴
4-Amino-2,6-dinitrotoluene	ND ³	0.500	2.41	0.500			--- ⁴
4-Nitrotoluene	ND ³	0.500	ND ³	0.500			--- ⁴
HMX	ND ³	0.500	ND ³	0.500			--- ⁴
Nitrobenzene	ND ³	0.500	ND ³	0.500			--- ⁴
RDX	26.2	0.500	28.5	0.500			--- ⁴
Tetryl	ND ³	0.500	ND ³	0.500			--- ⁴
Sample Identification	5536-005		5536-006		5536-007		
Sample Description	Pentolite Road Red Water Pond West Wall		Pentolite Road Red Water Pond South Wall		Pentolite Road Red Water Pond East Wall		
Sample Collection Date	1/15/03		1/15/03		1/15/03		
Nitroaromatics	mg/kg	PQL²	mg/kg	PQL²	mg/kg	PQL²	mg/kg
1,3,5-Trinitrobenzene	39.1	0.495	35.5	0.500	22.9	0.495	--- ⁴
1,3-Dinitrobenzene	17.2	0.495	12.0	0.500	7.90	0.495	--- ⁴
2,4,6-Trinitrotoluene	6.88	0.495	317	0.500	1,440	4.95	13.8
2,4-Dinitrotoluene	3.11	0.495	ND ³	0.500	3.71	0.495	--- ⁴
2,6-Dinitrotoluene	ND ³	0.495	ND ³	0.500	ND ³	0.495	--- ⁴
2-Amino-4,6-dinitrotoluene	ND ³	0.495	ND ³	0.500	ND ³	0.495	--- ⁴
2-Nitrotoluene	ND ³	0.495	ND ³	0.500	ND ³	0.495	--- ⁴
3-Nitrotoluene	ND ³	0.495	ND ³	0.500	ND ³	0.495	--- ⁴
4-Amino-2,6-dinitrotoluene	ND ³	0.495	ND ³	0.500	ND ³	0.495	--- ⁴
4-Nitrotoluene	ND ³	0.495	ND ³	0.500	ND ³	0.495	--- ⁴
HMX	ND ³	0.495	ND ³	0.500	ND ³	0.495	--- ⁴
Nitrobenzene	4.49	0.495	ND ³	0.500	3.16	0.495	--- ⁴
RDX	43.6	0.495	28.9	0.500	17.8	0.495	--- ⁴
Tetryl	ND ³	0.495	ND ³	0.500	ND ³	0.495	--- ⁴

¹ Preliminary Remedial Goals

² PQL= Practical Quantitation Limit reported by the laboratory. The concentration units are the same as the units for the field samples.

³ ND=Not Detected at laboratory PQL

⁴ There is no regulated value set for this constituent

3.5 Test Pit Activities

Personnel mobilized to the PBOW site in June 2004 to perform test pit activities, to determine the horizontal extent of contamination. Personnel began test pit activities by stepping out 10' from the perimeter of the original excavation. Field screening revealed that contamination was still present. Therefore, personnel continued stepping out at approximately 10-20 feet intervals until the field screening revealed that the samples appeared clean and then confirmation samples were collected. The final perimeter (at which soil was found to be below the PRG level) is approximately 130' to the east, 20' to the south, 30' to the west, and 160' to the north from the original excavated pit dimensions. As the pit investigation ventured out to the south and east, new north and east walls were created which required field screening and confirmation sampling. Refer to Appendix A for a copy of the survey map showing the new horizontal limits as well as the amount of soil that requires removal from the area. Refer to Appendix B for a copy of the laboratory analytical reports.

FIGURE 5- PRRWP TEST PIT EXCAVATION



FIGURE 6 – EXCAVATED TEST PIT

*****Notice the dark seam approximately four feet below ground surface as described in Figure 2.**



3.5.1 Field Screening and Confirmation Sampling of Test Pit Areas

Field screening of the test pits for nitroaromatic compounds was performed during the June 2004 field activities. WTI used the TNT EnSys® Soil Test System to field screen for nitroaromatics to determine if the excavation limits had been reached for each test pit. Personnel began trenching operations by stepping out 10' from the perimeter of the previous pit. Field screening revealed that contamination was still present and personnel continued stepping out at approximate 10' to 20' intervals until the field screening and confirmation sampling revealed that the samples were below 13.8 mg/kg. According to the manufacturer, the least detectable concentration that the TNT EnSys® Soil Test System can reach is 0.7 mg/kg; therefore, data at or below 0.70 mg/kg is reported as "not detected." The calculated HI for the proposed excavation perimeter was 0.39, based on 13.0 mg/kg which was the highest concentration of TNT detected from test pit confirmation samples along the proposed excavation perimeter (horizontal extent of contamination). Refer to Table 5 of this section for the confirmation sampling results, and Section 3.6, Table 7 for the proposed excavation HI calculations.

Table 5 - Summary of Investigative and Confirmatory Sampling Results
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Sample Identification	5879-156		5879-157		5879-158		5879-159		5879-160		5879-161		5879-161C		5879-162		Preliminary Remediation Goal (PRG) ¹
Sample Description	PRRWP South #2		PRRWP East #6		PRRWP Southeast #2B		PRRWP Southeast #2C		PRRWP Southeast #2D		PRRWP Southeast #2E		PRRWP Southeast #2E Quality Control ³		PRRWP Southeast #45E		
Sample Collection Date	06/17/04		06/17/04		06/22/04		06/22/04		06/22/04		06/22/04		06/22/04		06/24/04		
Nitroaromatics	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg
1,3,5-Trinitrobenzene	ND ⁴	0.488	30.2	0.498	9.84	0.490	9.06	0.474	9.21	0.488	11.4	0.483	9.41	0.493	ND ⁴	0.495	---
1,3-Dinitrobenzene	ND ⁴	0.488	ND ⁴	0.498	9.87	0.490	9.06	0.474	8.93	0.488	9.92	0.483	9.09	0.493	ND ⁴	0.495	---
2,4,6-Trinitrotoluene	11.7	0.488	12.1	0.498	13.0	0.490	11.7	0.474	11.8	0.488	12.3	0.483	12.1	0.493	ND ⁴	0.495	13.8
2,4-Dinitrotoluene	ND ⁴	0.488	20.2	0.498	8.92	0.490	7.81	0.474	6.50	0.488	12.6	0.483	9.37	0.493	6.05	0.495	---
2,6-Dinitrotoluene	ND ⁴	0.488	ND ⁴	0.498	7.34	0.490	ND ⁴	0.474	7.17	0.488	7.82	0.483	7.59	0.493	7.24	0.495	---
2-Amino-4,6-dinitrotoluene	8.35	0.488	ND ⁴	0.498	9.09	0.490	9.46	0.474	8.49	0.488	9.60	0.483	ND ⁴	0.493	8.63	0.495	---
2-Nitrotoluene	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.490	ND ⁴	0.474	ND ⁴	0.488	ND ⁴	0.483	ND ⁴	0.493	ND ⁴	0.495	---
3-Nitrotoluene	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.490	ND ⁴	0.474	ND ⁴	0.488	ND ⁴	0.483	ND ⁴	0.493	ND ⁴	0.495	---
4-Amino-2,6-dinitrotoluene	11.2	0.488	19.9	0.498	11.9	0.490	12.3	0.474	11.3	0.488	12.7	0.483	11.8	0.493	11.7	0.495	---
4-Nitrotoluene	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.490	ND ⁴	0.474	ND ⁴	0.488	ND ⁴	0.483	ND ⁴	0.493	ND ⁴	0.495	---
HMX	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.490	ND ⁴	0.474	ND ⁴	0.488	ND ⁴	0.483	ND ⁴	0.493	ND ⁴	0.495	---
Nitrobenzene	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.490	ND ⁴	0.474	ND ⁴	0.488	ND ⁴	0.483	ND ⁴	0.493	ND ⁴	0.495	---
RDX	ND ⁴	0.488	ND ⁴	0.498	11.6	0.490	10.8	0.474	10.9	0.488	14.3	0.483	ND ⁴	0.493	ND ⁴	0.495	---
Tetryl	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.490	ND ⁴	0.474	ND ⁴	0.488	ND ⁴	0.483	ND ⁴	0.493	ND ⁴	0.495	---

Sample Identification	5879-163		5879-164		5879-165		5879-166		5879-167		5879-167C		5879-168		5879-169		5879-170	
Sample Description	PRRWP East (South) #13A		PRRWP East (South) #12A2		PRRWP East (South) #10B		PRRWP East (South) #7B		PRRWP East (South) #12B2		PRRWP East (South) #12B2 Quality Control ³		PRRWP Northeast #B #6		PRRWP East #8		PRRWP Northeast C	
Sample Collection Date	06/24/04		06/24/04		06/24/04		06/24/04		06/24/04		06/24/04		06/30/04		06/30/04		06/30/04	
Nitroaromatics	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²
1,3,5-Trinitrobenzene	ND ⁴	0.483	13.7	0.500	ND ⁴	0.498	ND ⁴	0.500	ND ⁴	0.478	ND ⁴	0.478	5.58	0.500	6.06	0.500	19.6	0.495
1,3-Dinitrobenzene	ND ⁴	0.483	10.4	0.500	ND ⁴	0.498	ND ⁴	0.500	ND ⁴	0.478	ND ⁴	0.478	6.98	0.500	7.48	0.500	10.2	0.495
2,4,6-Trinitrotoluene	ND ⁴	0.483	12.4	0.500	ND ⁴	0.498	ND ⁴	0.500	ND ⁴	0.478	ND ⁴	0.478	9.76	0.500	42.6	0.500	15.0	0.495
2,4-Dinitrotoluene	ND ⁴	0.483	8.86	0.500	ND ⁴	0.498	6.08	0.500	ND ⁴	0.478	5.89	0.478	5.21	0.500	6.28	0.500	11.5	0.495
2,6-Dinitrotoluene	ND ⁴	0.483	ND ⁴	0.500	ND ⁴	0.498	7.28	0.500	ND ⁴	0.478	6.91	0.478	ND ⁴	0.500	ND ⁴	0.500	14.2	0.495
2-Amino-4,6-dinitrotoluene	ND ⁴	0.483	9.75	0.500	ND ⁴	0.498	8.62	0.500	ND ⁴	0.478	ND ⁴	0.478	2.30	0.500	ND ⁴	0.500	5.53	0.495
2-Nitrotoluene	ND ⁴	0.483	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.500	ND ⁴	0.478	ND ⁴	0.478	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.495
3-Nitrotoluene	ND ⁴	0.483	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.500	ND ⁴	0.478	ND ⁴	0.478	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.495
4-Amino-2,6-dinitrotoluene	ND ⁴	0.483	12.4	0.500	ND ⁴	0.498	11.7	0.500	ND ⁴	0.478	ND ⁴	0.478	4.62	0.500	6.41	0.500	7.56	0.495
4-Nitrotoluene	ND ⁴	0.483	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.500	ND ⁴	0.478	ND ⁴	0.478	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.495
HMX	ND ⁴	0.483	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.500	ND ⁴	0.478	ND ⁴	0.478	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.495
Nitrobenzene	ND ⁴	0.483	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.500	ND ⁴	0.478	ND ⁴	0.478	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.495
RDX	ND ⁴	0.483	15.0	0.500	ND ⁴	0.498	ND ⁴	0.500	ND ⁴	0.478	ND ⁴	0.478	5.03	0.500	6.50	0.500	8.73	0.495
Tetryl	ND ⁴	0.483	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.500	ND ⁴	0.478	ND ⁴	0.478	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.495

¹ Preliminary Remedial Goals

⁴ ND=Not Detected at laboratory PQL

² PQL=Practical quantitation Limit

⁵ PRG not established for this compound

³ Duplicate sample

Table 5 - Summary of Investigative and Confirmatory Sampling Results

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Sample Identification	5879-171		5879-172		5879-173		5879-174		5879-175		5879-176		5879-177		5879-178		Preliminary Remediation Goal (PRG) ¹
Sample Description	PRRWP Northeast D		PRRWP Northeast F		PRRWP Northeast G		PRRWP Northeast H #1		PRRWP East #13		PRRWP Northeast A #6		PRRWP Northeast D #2		PRRWP Northeast D #5		
Sample Collection Date	06/30/04		06/30/04		06/30/04		06/30/04		06/30/04		06/30/04		07/01/04		07/01/04		
Nitroaromatics	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg
1,3,5-Trinitrobenzene	11.0	0.490	9.94	0.500	10.7	0.500	12.7	0.495	6.11	0.493	11.2	0.498	9.80	0.493	12.1	0.495	---
1,3-Dinitrobenzene	9.35	0.490	8.70	0.500	7.96	0.500	8.85	0.495	6.74	0.493	9.62	0.498	9.38	0.493	8.94	0.495	---
2,4,6-Trinitrotoluene	13.6	0.490	24.8	0.500	10.3	0.500	11.7	0.495	11.1	0.493	10.1	0.498	13.1	0.493	12.7	0.495	13.8
2,4-Dinitrotoluene	8.68	0.490	7.67	0.500	6.70	0.500	9.50	0.495	5.70	0.493	6.04	0.498	9.30	0.493	8.60	0.495	---
2,6-Dinitrotoluene	10.3	0.490	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.493	7.25	0.498	ND ⁴	0.493	ND ⁴	0.495	---
2-Amino-4,6-dinitrotoluene	5.85	0.490	ND ⁴	0.500	2.84	0.500	4.47	0.495	ND ⁴	0.493	3.30	0.498	4.28	0.493	4.19	0.495	---
2-Nitrotoluene	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.493	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.495	---
3-Nitrotoluene	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.493	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.495	---
4-Amino-2,6-dinitrotoluene	11.6	0.490	10.1	0.500	5.18	0.500	8.31	0.495	5.08	0.493	5.17	0.498	10.9	0.493	8.05	0.495	---
4-Nitrotoluene	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.493	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.495	---
HMX	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.493	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.495	---
Nitrobenzene	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.493	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.495	---
RDX	17.7	0.490	12.6	0.500	8.25	0.500	12.4	0.495	5.75	0.493	ND ⁴	0.498	16.6	0.493	15.1	0.495	---
Tetryl	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.493	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.495	---

Sample Identification	5879-178C		5879-179		5879-180		5879-181		5879-182		5879-183		5879-184		5879-185		5879-186	
Sample Description	PRRWP Northeast D #5 Quality Control ³		PRRWP Northeast D #4		PRRWP West (South corner) #2		PRRWP West (North) #6		PRRWP West (North) #3A		PRRWP West (South) #8		PRRWP West (North) #6A		PRRWP West #8		PRRWP West (North) #2D	
Sample Collection Date	07/01/04		07/01/04		07/08/04		07/08/04		07/08/04		07/08/04		07/08/04		07/08/04		07/08/04	
Nitroaromatics	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²
1,3,5-Trinitrobenzene	4.90	0.495	13.8	0.500	12.3	0.488	13.1	0.498	6.25	0.493	12.3	0.493	26.1	0.500	5.76	0.490	5.60	0.490
1,3-Dinitrobenzene	6.91	0.495	9.73	0.500	8.91	0.488	9.50	0.498	6.90	0.493	ND ⁴	0.493	11.3	0.500	6.43	0.490	6.61	0.490
2,4,6-Trinitrotoluene	ND ⁴	0.495	20.8	0.500	ND ⁴	0.488	11.1	0.498	9.59	0.493	ND ⁴	0.493	19.3	0.500	9.58	0.490	9.48	0.490
2,4-Dinitrotoluene	4.77	0.495	10.4	0.500	9.37	0.488	8.71	0.498	5.17	0.493	ND ⁴	0.493	16.2	0.500	6.28	0.490	5.04	0.490
2,6-Dinitrotoluene	ND ⁴	0.495	ND ⁴	0.500	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.490	ND ⁴	0.490
2-Amino-4,6-dinitrotoluene	ND ⁴	0.495	4.13	0.500	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.493	ND ⁴	0.500	1.81	0.490	ND ⁴	0.490
2-Nitrotoluene	ND ⁴	0.495	ND ⁴	0.500	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.490	ND ⁴	0.490
3-Nitrotoluene	ND ⁴	0.495	ND ⁴	0.500	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.490	ND ⁴	0.490
4-Amino-2,6-dinitrotoluene	ND ⁴	0.495	16.4	0.500	ND ⁴	0.488	8.63	0.498	4.48	0.493	ND ⁴	0.493	15.1	0.500	4.62	0.490	ND ⁴	0.490
4-Nitrotoluene	ND ⁴	0.495	ND ⁴	0.500	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.490	ND ⁴	0.490
HMX	ND ⁴	0.495	ND ⁴	0.500	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.490	ND ⁴	0.490
Nitrobenzene	ND ⁴	0.495	ND ⁴	0.500	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.490	ND ⁴	0.490
RDX	ND ⁴	0.495	ND ⁴	0.500	ND ⁴	0.488	15.9	0.498	5.09	0.493	ND ⁴	0.493	26.3	0.500	4.37	0.490	4.26	0.490
Tetryl	ND ⁴	0.495	ND ⁴	0.500	ND ⁴	0.488	ND ⁴	0.498	ND ⁴	0.493	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.490	ND ⁴	0.490

¹ Preliminary Remedial Goals

² PQL=Practical quantitation Limit

³ Duplicate sample

⁴ ND=Not Detected at laboratory PQL

⁵ RGO not established for this compound

Table 5 - Summary of Investigative and Confirmatory Sampling Results

Page 3 of 3

Sample Identification	5879-187		5879-188		5879-189		5879-189C		5879-190		5879-191		5879-192		5879-193		5879-194		Preliminary Remediation Goal (PRG) ¹
Sample Description	PRRWP West (North) #8		PRRWP West (South Corner) #4		PRRWP North #7		PRRWP North #7 Quality Control ³		PRRWP West (North) #4C		PRRWP West (North) #6B		PRRWP West (South Corner) #6		PRRWP Northeast F #6		PRRWP Northeast F #8		
Sample Collection Date	07/08/04		07/08/04		07/08/04		07/08/04		07/08/04		07/08/04		07/08/04		07/08/04		07/08/04		
Nitroaromatics	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg
1,3,5-Trinitrobenzene	4.62	0.490	4.79	0.500	ND ⁴	0.495	ND ⁴	0.498	4.60	0.495	ND ⁴	0.495	ND ⁴	0.490	7.48	0.500	7.02	0.498	---
1,3-Dinitrobenzene	6.73	0.490	6.39	0.500	6.39	0.495	ND ⁴	0.498	6.38	0.495	6.27	0.495	ND ⁴	0.490	7.69	0.500	7.90	0.498	---
2,4,6-Trinitrotoluene	9.70	0.490	9.72	0.500	ND ⁴	0.495	ND ⁴	0.498	9.56	0.495	9.60	0.495	ND ⁴	0.490	11.0	0.500	11.5	0.498	13.8
2,4-Dinitrotoluene	5.60	0.490	5.36	0.500	4.54	0.495	ND ⁴	0.498	4.96	0.495	4.50	0.495	ND ⁴	0.490	7.98	0.500	10.2	0.498	---
2,6-Dinitrotoluene	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.495	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.498	---
2-Amino-4,6-dinitrotoluene	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.498	ND ⁴	0.495	1.86	0.495	ND ⁴	0.490	2.62	0.500	2.42	0.498	---
2-Nitrotoluene	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.495	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.498	---
3-Nitrotoluene	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.495	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.498	---
4-Amino-2,6-dinitrotoluene	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.498	ND ⁴	0.495	4.17	0.495	ND ⁴	0.490	9.54	0.500	12.2	0.498	---
4-Nitrotoluene	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.495	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.498	---
HMX	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.495	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.498	---
Nitrobenzene	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.495	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.498	---
RDX	ND ⁴	0.490	4.29	0.500	ND ⁴	0.495	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.495	ND ⁴	0.490	6.14	0.500	6.72	0.498	---
Tetryl	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.495	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.495	ND ⁴	0.490	ND ⁴	0.500	ND ⁴	0.498	---

Sample Identification	5879-195		5879-196		5879-197		5879-232		5879-233		5879-234		5879-235		5879-236		5879-237		5879-238	
Sample Description	PRRWP Northeast D #8		PRRWP Northeast B #8		PRRWP Northeast Corner #8		PRRWP NED-08A		PRRWP NED-07A		PRRWP NED-06A		PRRWP WN-06D		PRRWP NEH-08		PRRWP NEG-08		PRRWP WN 06C	
Sample Collection Date	07/08/04		07/08/04		07/08/04		7/29/04		7/29/04		7/29/04		7/29/04		7/29/04		7/29/04		7/29/04	
Nitroaromatics	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg	PQL ²
1,3,5-Trinitrobenzene	10.5	0.500	4.99	0.500	9.29	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.498	9.15	0.495	ND ⁴	0.488	9.57	0.493
1,3-Dinitrobenzene	9.31	0.500	6.78	0.500	7.80	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	9.33	0.498	9.13	0.495	ND ⁴	0.488	9.28	0.493
2,4,6-Trinitrotoluene	17.9	0.500	10.0	0.500	10.7	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	12.4	0.498	12.5	0.495	ND ⁴	0.488	12.1	0.493
2,4-Dinitrotoluene	16.4	0.500	5.21	0.500	7.45	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	7.36	0.498	8.09	0.495	ND ⁴	0.488	6.67	0.493
2,6-Dinitrotoluene	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.488	ND ⁴	0.493
2-Amino-4,6-dinitrotoluene	ND ⁴	0.500	1.94	0.500	2.37	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	8.51	0.498	8.51	0.495	ND ⁴	0.488	ND ⁴	0.493
2-Nitrotoluene	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.488	ND ⁴	0.493
3-Nitrotoluene	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.488	ND ⁴	0.493
4-Amino-2,6-dinitrotoluene	14.6	0.500	4.82	0.500	7.49	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	11.6	0.498	11.7	0.495	ND ⁴	0.488	ND ⁴	0.493
4-Nitrotoluene	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.488	ND ⁴	0.493
HMX	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.488	ND ⁴	0.493
Nitrobenzene	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.488	ND ⁴	0.493
RDX	9.25	0.500	4.61	0.500	5.71	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.488	ND ⁴	0.493
Tetryl	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.493	ND ⁴	0.500	ND ⁴	0.500	ND ⁴	0.498	ND ⁴	0.498	ND ⁴	0.495	ND ⁴	0.488	ND ⁴	0.493

¹ Preliminary Remedial Goal
² PQL=Practical quantitation Limit
³ Duplicate sample
⁴ ND=Not Detected at laboratory PQL
⁵ PRG not established for this compound

3.6 Hazard Index

In consultation with the USACE and with the approval of the Ohio EPA, it was determined that a HI of less than one (<1.0), calculated at the horizontal extent (perimeter) of PRRWP, would pose no threat to human health or the environment and could be considered "clean" for closure. Therefore, once field screening revealed that the excavation perimeters had been reached, confirmation samples were taken and HI calculations were done to ensure that the area was "clean." The data used for the HI calculations were stored and analyzed using Microsoft Excel® spreadsheets.

To obtain the HI, the HQ was calculated using the highest found contaminant concentration from the confirmation sampling. Using the highest concentration gives a maximum HQ for the area. The HI is the sum of the HQs for each COC associated with a site. However, PRRWP only had one COC therefore the HQ associated with TNT was also the HI for the entire site. Refer to Table 6 for the HI calculated for the original 20' X 20' X 8' excavation and Table 7 for the HI calculation of the proposed excavation perimeter.

3.6.1 Hazard Index for Original Excavation

The initial HI for the PRRWP was calculated to be 42.78; this greatly exceeded the closure limit of an HI less than one (<1.0). Therefore, once the test pit activities were completed and a perimeter was established where the concentration of TNT was less than 13.8 mg/kg, another HI was calculated. Refer to the following table (table 6) for the original excavation HI calculations.

3.6.2 Hazard Index for Future Excavation

HI calculations were also performed for test pit activities using the sample data collected from the horizontal limits of the test pit activities. Test pit activities were stopped when it appeared (based upon a HI less than 1.0) that the horizontal limits of the contamination had been reached. The HI for the proposed excavation pit is 0.39 which is less than one (<1.0). Refer to table 7 on the following page for the proposed excavation HI calculations.

Table 6 –Original Excavation HI Calculation

Chem Name	Frequency of Detection			Range of Detection			95%UCL	Source Term	Source Term		is ST less than	source term	source term
				min	mean	max		Conc.	Qualifier max or UCL	PRG	PRG?	Resulting	Resulting
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	Y/N	HQ	ILCR
TNT	5	of	5	6.88	357.40	1440		1440	max	13.8	N	42.78	1.0E-04
Total HI and ILCR												42.78	1.0E-04

*** Because the maximum detection limits yielded de minimus risk and hazard, it was not necessary to perform calculations with the more refined 95% of the upper confidence level (UCL)

Table 7 -Future Excavation Perimeter HI Calculation

Chem Name	Frequency of Detection			Range of Detection			95%UCL	Source Term	Source Term		is ST less than	source term	source term
				min	mean	max		Conc.	Qualifier max or UCL	PRG	PRG?	Resulting	Resulting
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	Y/N	HQ	ILCR
TNT	25	of	39	9.48	10.93	13		13	max	13.8	Y	0.39	9.1E-07
Total HI and ILCR												0.39	9.1E-07

*** Because the maximum detection limits yielded de minimus risk and hazard, it was not necessary to perform calculations with the more refined 95% of the upper confidence level (UCL)

3.7 Recommendations and Further Actions

The Test pit activity sampling and HI calculation from the highest concentration of TNT sampled along the perimeter of the proposed excavation indicates that once the site is over-excavated, the HI will be 0.39 which is less than one. In consultation with the USACE and with approval of the Ohio EPA, it was determined that excavating PRRWP until the resulting excavation perimeter HI for the nitroaromatic contaminant of concern (TNT) equal to 1.0 or less would pose no health threat and could be considered “clean” for backfilling. Therefore, it is recommended that the PRRWP Area be excavated to the proposed limits (as shown on the figures in Appendix A), which should remove all nitroaromatic-contaminated soil that is above the PRG. Soil samples should be taken once those limits have been reached to confirm clean closure” should be provided. Once successful removal of all nitroaromatic-contaminated soil above the PRG has been accomplished, a Decision Document should be prepared which would document the removal action and confirmatory soil sample results, and provide a recommendation that no further action be taken for soils at the PRRWP Area, based upon the soil excavation and sampling results. The Decision Document should further detail the final disposition of the contaminated soil; i.e., composting until contamination levels are below hazardous levels, with disposal at an offsite, licensed, non-hazardous waste landfill.

FIGURE 7 – TYPICAL VIEW OF PROPOSED EXCAVATION PERIMETER



4.0 CONTAMINATED SOIL AND WASTE DISPOSAL

Excavated soil from both TNT B and PRRWP contributed to the PBOW TNT-B stockpiles. However, the soil from PRRWP was kept separate from the TNT B stockpile. This allowed the contaminated soil from PRRWP to be characterized without the introduction of foreign contamination from the TNT B contaminated soil. Also, the stockpiles were covered to prevent runoff through the stockpiles.

FIGURE 8 – PRRWP STOCKPILE



FIGURE 9 – COVERED PRRWP STOCKPILE



4.1 Waste Characterization of Stockpile Soil

A total of three composite samples were collected from the stockpile of excavated soil from field activities that took place from January 2003. The samples were collected for waste characterization purposes based on requirements of the Erie County Landfill and were analyzed for pH, reactivity, ignitability, and full TCLP analysis for metals, volatiles, semi-volatiles, herbicides, and pesticides. Representative samples were collected from the stockpile utilizing a shovel and an excavator. Samples were collected from approximately 6 inches below the surface of the stockpile with a shovel and then the excavator was used to dig into the stockpile to obtain a sample from within the stockpile.

Analytical data from the stockpile samples of the excavated soil was compared to the RCRA criteria for the appropriate parameters. Based upon the TCLP analytical data, the nitroaromatic impacted soil was determined to be hazardous (2,4-DNT above the RCRA limit of 0.13 mg/L). Initially, the soil was profiled for disposal at a hazardous waste disposal facility (Waste Management, Model City, New York). However, in consultation with the USACE POC and approval by the Ohio EPA, it was determined that the soil could be disposed of more cost effectively through windrow composting, already in progress at the TNT B site. Windrow composting uses the process of ex-situ bioremediation to reduce contamination, in this case to reduce the COC to non-

hazardous levels. Once the soil is characterized as non-hazardous, it can be disposed of at the Erie County Landfill, a permitted non-hazardous landfill.

FIGURE 10 – COLLECTING SOIL SAMPLES FROM THE PRRWP STOCKPILE



TABLE 8 - Waste Characterization of Stockpile Soil

SAMPLE ID	5536-002		5536-003		5536-008C		RCRA ³
Description	Pentolite Road Red Water Pond Stockpile		Pentolite Road Red Water Pond Stockpile		Pentolite Road Red Water Pond Stockpile Quality Control Sample of 5536-003		
Date	01/15/03		01/15/03		01/15/03		
TCLP Volatiles	mg/L	PQL ¹	mg/L	PQL ¹	mg/L	PQL ¹	mg/L
Benzene	ND ²	0.050	ND ²	0.050	ND ²	0.050	0.500
Carbon tetrachloride	ND ²	0.050	ND ²	0.050	ND ²	0.050	0.500
Chlorobenzene	ND ²	0.050	ND ²	0.050	ND ²	0.050	100
Chloroform	ND ²	0.050	ND ²	0.050	ND ²	0.050	6.0
1,1-Dichloroethene	ND ²	0.050	ND ²	0.050	ND ²	0.050	0.700
1,2-Dichloroethane	ND ²	0.050	ND ²	0.050	ND ²	0.050	0.500
Methyl ethyl ketone	ND ²	1.00	ND ²	1.00	ND ²	1.00	200
Tetrachloroethene	ND ²	0.050	ND ²	0.050	ND ²	0.050	0.700
Trichloroethene	ND ²	0.050	ND ²	0.050	ND ²	0.050	0.500
Vinyl chloride	ND ²	0.050	ND ²	0.050	ND ²	0.050	0.200
TCLP Semi-volatiles	mg/L	PQL ¹	mg/L	PQL ¹	mg/L	PQL ¹	mg/L
o-cresol	ND ²	0.06	ND ²	0.06	ND ²	0.07	200
m,p-cresol	ND ²	0.13	ND ²	0.13	ND ²	0.13	200
1,4-Dichlorobenzene	ND ²	0.03	ND ²	0.03	ND ²	0.03	7.5
2,4-Dinitrotoluene	0.37	0.03	0.49	0.03	0.61	0.03	0.13
Hexachlorobenzene	ND ²	0.03	ND ²	0.03	ND ²	0.03	0.13
Hexachlorobutadiene	ND ²	0.03	ND ²	0.03	ND ²	0.03	0.50
Hexachloroethane	ND ²	0.03	ND ²	0.03	ND ²	0.03	3.0
Nitrobenzene	ND ²	0.03	ND ²	0.03	ND ²	0.03	2.0
Pentachlorophenol	ND ²	0.06	ND ²	0.06	ND ²	0.07	100
Pyridine	ND ²	0.03	ND ²	0.03	ND ²	0.03	5.0
2,4,5-Trichlorophenol	ND ²	0.06	ND ²	0.03	ND ²	0.07	400
2,4,6-Trichlorophenol	ND ²	0.06	ND ²	0.03	ND ²	0.07	2.0
TCLP Pesticides	mg/L	PQL ¹	mg/L	PQL ¹	mg/L	PQL ¹	mg/L
Chlordane	ND ²	0.002	ND ²	0.002	ND ²	0.002	0.030
Endrin	ND ²	0.020	ND ²	0.020	ND ²	0.020	0.020
Gamma-BHC	ND ²	0.020	ND ²	0.020	ND ²	0.020	0.020
Heptachlor	ND ²	0.002	ND ²	0.002	ND ²	0.002	0.008
Heptachlor epoxide	ND ²	0.002	ND ²	0.002	ND ²	0.002	0.008
Methoxychlor	ND ²	0.020	ND ²	0.020	ND ²	0.020	10.0
Toxaphene	ND ²	0.002	ND ²	0.002	ND ²	0.002	0.500
TCLP Herbicides	mg/L	PQL ¹	mg/L	PQL ¹	mg/L	PQL ¹	mg/L
2,4,5-TP (Silvex)	ND ²	0.01	ND ²	0.01	ND ²	0.01	1.0
2,4-D	ND ²	0.05	ND ²	0.05	ND ²	0.05	10.0
TCLP Metals	mg/L	PQL ¹	mg/L	PQL ¹	mg/L	PQL ¹	mg/L
Arsenic	ND ²	0.500	ND ²	0.500	ND ²	0.500	5.0
Barium	ND ²	1.00	ND ²	1.00	ND ²	1.00	100
Cadmium	ND ²	0.050	ND ²	0.050	ND ²	0.050	1.0
Chromium	ND ²	0.500	ND ²	0.500	ND ²	0.500	5.0
Lead	ND ²	0.500	ND ²	0.500	ND ²	0.500	5.0
Silver	ND ²	0.100	ND ²	0.100	ND ²	0.100	5.0
Selenium	ND ²	0.100	ND ²	0.100	ND ²	0.100	1.0
Mercury	ND ²	0.002	ND ²	0.002	ND ²	0.002	0.20

1 PQL= Practical Quantitation Limit reported by the laboratory. The concentration units are the same as the units for the field samples.

2 ND=Not detected at the laboratory PQL.

3 RCRA= Resource Conservation and Recovery Act

Table 9 - Total Nitroaromatics for Stockpiled Soil

Sample Identification	5536-010		5536-011		Land Ban Restricted Limits ¹
Sample Description	Pentolite Road		Pentolite Road		
	Red Water Pond		Red Water Pond		
	Stockpile		Stockpile		
Sample Collection Date	1/30/03		1/30/03		
Nitroaromatics	mg/kg	PQL ²	mg/kg	PQL ²	mg/kg
1,3,5-Trinitrobenzene	24.9	0.498	21.2	0.500	--- ⁴
1,3-Dinitrobenzene	19.7	0.498	15.5	0.500	--- ⁴
2,4,6-Trinitrotoluene	364	0.498	73.1	0.500	--- ⁴
2,4-Dinitrotoluene	17.0	0.498	12.3	0.500	140
2,6-Dinitrotoluene	8.88	0.498	10.4	0.500	28
2-Amino-4,6-dinitrotoluene	ND ³	0.498	ND ³	0.500	--- ⁴
2-Nitrotoluene	ND ³	0.498	ND ³	0.500	--- ⁴
3-Nitrotoluene	ND ³	0.498	ND ³	0.500	--- ⁴
4-Amino-2,6-dinitrotoluene	ND ³	0.498	ND ³	0.500	--- ⁴
4-Nitrotoluene	ND ³	0.498	ND ³	0.500	--- ⁴
HMX	ND ³	0.498	ND ³	0.500	--- ⁴
Nitrobenzene	ND ³	0.498	2.90	0.500	--- ⁴
RDX	22.4	0.498	20.4	0.500	--- ⁴
Tetryl	ND ³	0.498	ND ³	0.500	--- ⁴

¹ Values above which a waste cannot be landfilled without additional treatment.

² PQL= Practical Quantitation Limit reported by the laboratory. The concentration units are the same as the units for the field samples.

³ ND=Not Detected at laboratory PQL

⁴ There is no regulated value set for this constituent

4.2 Sampling and Analysis of Composted Soil

The characterized PRRWP soil was transported from the stockpile area to the TNT B composting area, where it was placed at the end of the fourth windrow. The soil was composted, and samples were taken every 30 feet along the approximately 300 foot long windrow once every week for six weeks. The samples were collected for waste characterization purposes based on requirements of the Erie County Landfill and were analyzed for pH, reactivity, ignitability, and full TCLP analysis for metals, volatiles, semi-volatiles, herbicides, and pesticides. Representative samples were collected from the composted soil utilizing a shovel and an excavator. Samples were collected from the surface of the compost pile with a shovel and then the excavator was used to dig into the compost pile to obtain a sample from within the compost pile.

Analytical data from the compost pile samples of the excavated soil was compared to the RCRA criteria for the appropriate parameters. Based upon the analytical data, the nitroaromatic impacted soil was determined to be non-hazardous and could be disposed of at a local municipal landfill.

Erie County Landfill was contacted concerning disposal of the soil and they requested that the composted soil also be sampled for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons (TPH), diesel range organics (DRO), gasoline range organics (GRO), and oil range organics (ORO). Therefore, pursuant to request by the landfill, 6 additional samples were collected and analyzed for BTEX and TPH-DRO/GRO/ORO. None of the BTEX contaminants were detected in any of the samples above the laboratory's Practical Quantitation Limit (PQL). Also, TPH/GRO was not detected above laboratory PQL's in any of the samples. Four of the six samples had varying concentrations of TPH/DRO (ranging from 56.3 to 487 mg/kg) and TPH/ORO (ranging from 43.1 to 94.6 mg/kg). Upon review of the analytical data by Erie County Landfill personnel, the non-hazardous soil was accepted for disposal.

4.3 Disposal of Composted Soil

During the composting activities, attempts were made to keep the soil from the two areas properly segregated with the intent of being able to account for the waste manifests associated with the soil disposal from PRRWP versus that disposed of from TNT B. However, it should be noted that during composting and loading activities the composted soil was not kept fully segregated. Waste Manifests 04007 and 04027 (dated 1/20/04) include the amount of soil that was removed from PRRWP as well as additional soil from TNT B that was added during composting and loading. Based upon these manifests approximately 315.82 tons of composted material, consisting primarily of PRRWP composted soil, was sent for disposal to the Erie County Landfill in January 2004. See Appendix D for a copy of the Waste Manifests.

4.4 Investigation Derived Waste

IDW Personal Protective Equipment (PPE), decontamination liquids, waste from field test kits, purge water from monitoring wells PB-BED-MW27 and PRMW-08, and all other waste/media generated from the investigation activities was containerized for disposal in accordance with this Plan of Operations and in compliance with EPA's off-site disposal regulations including the RCRA land disposal restrictions for on-site and off-site waste disposal, and the Department of Transportation's (DOT) regulations.

The purge water from the monitoring wells had been stored on-site in one of the bunkers until its disposal. Two drums of non-hazardous purge water from the well closure was transported to Enviro-Tank Clean Services in Belpre, Ohio on July 9, 2004.

The IDW generated during the project activities were decontamination fluids, used personal protective equipment (PPE), plastic, and plastic bottles. The drums were labeled and placed on wood pallets located behind the WTI office trailer. Two representative samples were collected (one from the lab waste and the other a composite of the two decontamination waste drums) and sent to the laboratory for full

TCLP analysis, pH, and flashpoint. Refer to Appendix B for a copy of the laboratory analytical. Analysis revealed that the two drums of decontamination fluids and PPE were non-hazardous and the drum of laboratory waste was hazardous. The laboratory waste was considered hazardous based upon its characteristic of ignitability. A sample of the laboratory waste had a flashpoint less than 20°C.

Two 55-gallon drums of decontamination fluids with personal protective equipment (PPE) and four drums of non-hazardous used PPE, gloves, and plastic were transported to Enviro-Tank Clean Services in Belpre, Ohio on November 16, 2004. One partially filled (approximately ½ full) 55-gallon of laboratory waste was transported to Perma-Fix in Dayton, Ohio. Refer to Appendix D for copies of the waste manifests.

5.0 SITE SURVEYING AND RESTORATION

5.1 Surveying Activities

The location of the proposed excavation limits at the PRRWP were surveyed by Mountain State Surveying using a Total Station with Electronic Measuring Devices using State Plane Coordinates from NAD27 provided by USACE. The survey data were provided electronically in a format compatible with MicroStation J for plotting purposes.

5.2 Site Restoration Activities

WTI filled the excavation areas with the clean backfill material obtained from Barnes Nursery. The backfilled area was compacted every two feet with the excavator bucket. The area has not been reseeded, but it is currently overgrown with natural vegetation. Reseeding was not done due to the expectation of continued excavation in the near future.

6.0 CONCLUSION AND RECOMMENDATION

Over excavation for closure is recommended. An estimated 7,600 cubic yards of soil must be removed. Refer to Appendix A for the drawing showing the excavation perimeter. Sampling results from the test pit activities indicate that once the site is over excavated to the horizontal limits, the HI will be 0.39, less than the acceptable HI of less than one (<1.0). Upon completion of the excavation, confirmation samples will be collected to ensure that the nitroaromatic-contaminated soil has been removed. It is recommended that excavated soil be composted to reduce to concentration of 2,4-DNT to non-hazardous levels. Upon successful completion of soil excavation, it is recommended that a Decision Document be prepared and forwarded to Ohio EPA requesting that No Further Action be taken for soils at the PRRWP Area. Confirmatory sampling that was done at the perimeter test pits, where the HI calculation was less than one, serves as the justification for recommending that a No

Further Action Decision Document be prepared for the soils at PRRWP, recommending no further action and requesting closure.

Table 10 -Final Hazard Index and Closure Recommendation

Location	HI	Estimated Contaminated Soil to be Removed (yd³)	Recommendation
PRRWP	0.39	7600	Over-excavation for closure and ex-situ bioremediation (composting) of excavated soil

7.0 REFERENCES

The following reference materials were used in compiling the information contained in this report and/or were used in other documents associated with this project.

40 CFR Part 261, *Identification and Listing of Hazardous Waste*, United States Environmental Protection Agency

CELRHR 5-2-7, *Quality Management Plan*, U.S. Army Corps of Engineers, May, 1999

Cornell University Composting Science and Engineering web site at http://www.cfe.cornell.edu/compost/Composting_Homepage.html

EM 200-1-2, *Technical Project Planning Process*, U.S. Army Corps of Engineers, August 1998

EM-200-1-6, *Chemical Quality Assurance for Hazardous, Toxic and Radioactive Waste Projects (HTRW)*, U.S. Army Corps of Engineers, October 1997

ER-1110-1-263, *Chemical Data Quality Management for Hazardous Waste Remedial Activities*, U.S. Army Corps of Engineers, April 1998

ER 1165-2-132, *HTRW Guidance for Civil Works Projects*, U.S. Army Corps of Engineers, June 1992

"Final Quality Control Plan", WTI, December 2002

"Final Plan of Operations for Stabilization, Excavation, and Disposal of Contaminated Soil for Pentolite Road Red Water Ponds", WTI, December 2002

"Final Site-Specific Safety and Health Plan for Pentolite Road Red Water Ponds", WTI, December 2002

"Final Plan of Operations Addendum for Stabilization, Excavation and Disposal of Contaminated Soil for Pentolite Road Red Water Ponds", WTI, December 2002

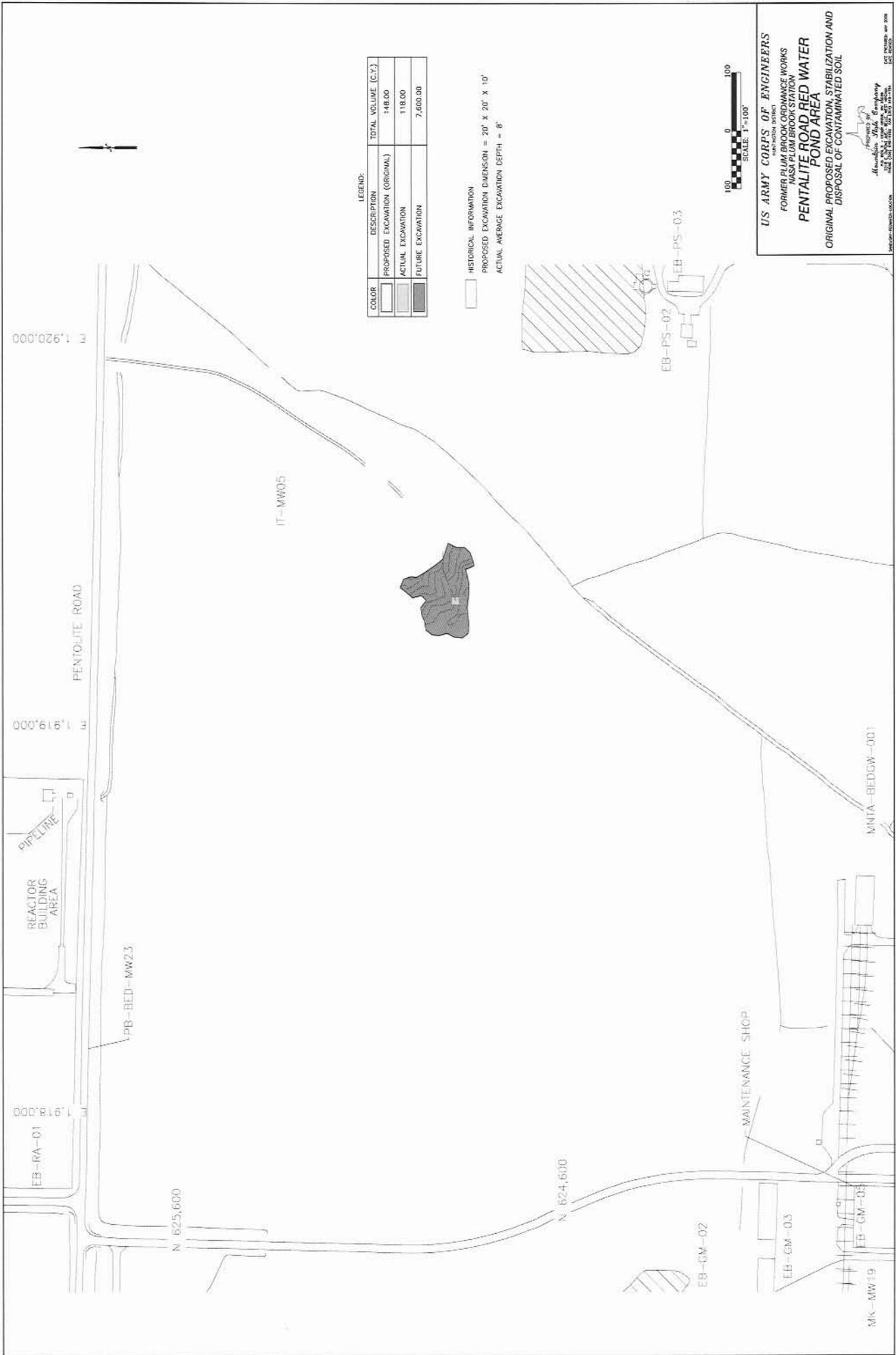
"Final Action Memorandum for Interim Removal Action for Pentolite Road Red Water Ponds", WTI, June 2003

"General Quality Control Plan", WTI, August 2004

"General Safety and Health Plan", WTI, August 2004

APPENDIX A

SITE PLAN VIEW



LEGEND:

COLOR	DESCRIPTION	TOTAL VOLUME (C.Y.)
[White Box]	PROPOSED EXCAVATION (ORIGINAL)	148.00
[Light Gray Box]	ACTUAL EXCAVATION	118.00
[Dark Gray Box]	FUTURE EXCAVATION	7,600.00

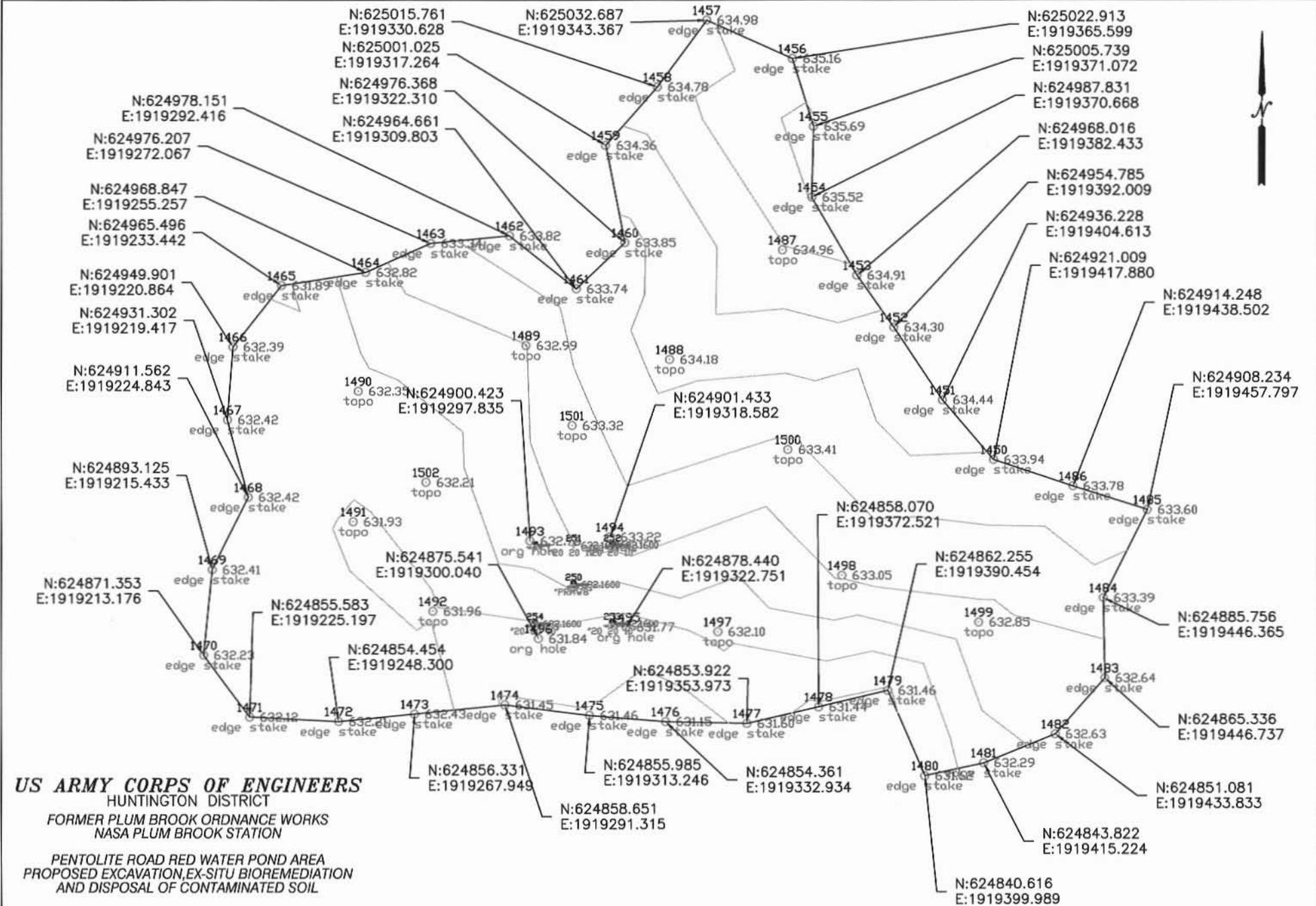
HISTORICAL INFORMATION
 PROPOSED EXCAVATION DIMENSION = 20' X 20' X 10'
 ACTUAL AVERAGE EXCAVATION DEPTH = 8'



US ARMY CORPS OF ENGINEERS
 WASHINGTON DISTRICT
 FORMER PLUM BROOK ORDNANCE WORKS
 MASSA PLUM BROOK STATION
**PENTALITE ROAD RED WATER
 POND AREA**
 ORIGINAL PROPOSED EXCAVATION, STABILIZATION AND
 DISPOSAL OF CONTAMINATED SOIL

Architect: White & Emery
 127 W. 10th Street, New York, NY 10011
 212 921 1212 FAX 212 921 1274

DATE: 11/15/00
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]



US ARMY CORPS OF ENGINEERS
 HUNTINGTON DISTRICT
 FORMER PLUM BROOK ORDNANCE WORKS
 NASA PLUM BROOK STATION

PENTOLITE ROAD RED WATER POND AREA
 PROPOSED EXCAVATION, EX-SITU BIOREMEDIATION
 AND DISPOSAL OF CONTAMINATED SOIL

PREPARED BY:
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DATE PREPARED: NOVEMBER 2005

**CONFIRMATION SAMPLE COORDINATES
 PENTOLITE ROAD RED WATER AREA**

PENTOLITE ROAD RED WATER POND SAMPLE COORDINATES

for location of PRRWP horizontal extent of contamination

Sample No.	Ref. No.	N Coordinate	E Coordinate
5536-001	NA		
5536-004	1493	624900.423	1919297.835
5536-005	1494	624901.433	1919318.582
5536-006	1495	624878.440	1919322.751
5536-007	1492	624875.541	1919300.040
5879-185	1470	624871.353	1919213.176
5879-186	1469	624893.125	1919215.433
5879-182	1468	624911.562	1919224.843
5879-190	1467	624931.302	1919219.417
5879-191	1466	624949.901	1919220.864
5879-238	1465	624968.847	1919255.257
5879-235	1464	624968.847	1919255.257
5879-187	1463	624976.207	1919272.067
5879-189	1462	624978.151	1919292.416
5879-176	1461	624964.661	1919309.803
5879-168	1460	624976.368	1919322.310
5879-196	1459	625001.025	1919317.264
5879-197	1458	625015.761	1919330.628
5879-237	1457	625032.687	1919343.367
5879-236	1456	625022.913	1919365.599
5879-194	1455	625005.739	1919371.072
5879-193	1454	624987.831	1919370.668
5879-234	1453	624968.016	1919382.433
5879-233	1452	624954.785	1919392.009
5879-232	1451	624936.228	1919404.613
5879-173	1450	624921.009	1919417.880
5879-174	1486	624914.248	1919438.502
5879-175	1485	624908.234	1919457.797
5879-164	1484	624885.756	1919446.365
5879-163	1483	624865.336	1919446.737
5879-167	1482	624851.081	1919433.833
5879-165	1481	624843.822	1919415.224
5879-166	1480	624840.616	1919399.989
5879-161	1479	624862.255	1919390.454
5879-160	1478	624858.070	1919372.521
5879-159	1477	624853.922	1919353.973
5879-158	1476	624854.361	1919332.934
5879-156	1475	624855.985	1919313.246
5879-180	1474	624858.651	1919291.315
5879-192	1473	624856.331	1919267.949
5879-188	1472	624854.454	1919248.300
5879-183	1471	624855.583	1919225.197

APPENDIX B

LABORATORY ANALYTICAL DATA

REI Consultants Inc.

Date: 30-Jan-03

Client: WASTE TRON - USACE
Client Sample: 5536-02
Project: 5536
Site ID: PBOW OHIO(PENTOLITE RED)

Lab Order: 0301465
Lab ID: 0301465-01A
Collection: 1/15/2003
Matrix: SOIL

Analyses	Result	Units	PQL	Reg	Qual	Date	Analyst
TCLP Percent Solids							
SW1311							
Percent Solids	100	wt%	NA	NA		01/16/03	CB
TCLP METALS BY ICP							
SW1311/6010B							
Arsenic	ND	mg/L	0.500	5.0		01/21/03	GD
Barium	ND	mg/L	1.00	100		01/21/03	GD
Cadmium	ND	mg/L	0.050	1.0		01/21/03	GD
Chromium	ND	mg/L	0.500	5.0		01/21/03	GD
Lead	ND	mg/L	0.500	5.0		01/21/03	GD
Silver	ND	mg/L	0.100	5.0		01/21/03	GD
TCLP MERCURY							
SW1311/7470							
Mercury	ND	mg/L	0.002	0.200		01/20/03	JD
TCLP SELENIUM							
SW1311/7740							
Selenium	ND	mg/L	0.100	1.0		01/20/03	DS
TCLP PESTICIDES							
SW1311/8081							
Chlordane	ND	mg/L	0.002	0.030		01/23/03	JR
Endrin	ND	mg/L	0.020	0.020		01/23/03	JR
gamma-BHC	ND	mg/L	0.020	0.020		01/23/03	JR
Heptachlor	ND	mg/L	0.002	0.008		01/23/03	JR
Heptachlor epoxide	ND	mg/L	0.002	0.008		01/23/03	JR
Methoxychlor	ND	mg/L	0.020	10.0		01/23/03	JR
Toxaphene	ND	mg/L	0.002	0.500		01/23/03	JR
TCLP HERBICIDES							
SW1311/8151							
2,4,5-TP (Silvex)	ND	mg/L	0.01	1.0		01/23/03	JR
2,4-D	ND	mg/L	0.05	10.0		01/23/03	JR
TCLP VOLATILE ORGANIC COMPOUNDS							
SW1311/8260B							
Benzene	ND	mg/L	0.050	0.500		01/21/03	TC
Carbon tetrachloride	ND	mg/L	0.050	0.500		01/21/03	TC
Chlorobenzene	ND	mg/L	0.050	100		01/21/03	TC
Chloroform	ND	mg/L	0.050	6.0		01/21/03	TC
1,1-Dichloroethene	ND	mg/L	0.050	0.700		01/21/03	TC
1,2-Dichloroethane	ND	mg/L	0.050	0.500		01/21/03	TC
Methyl ethyl ketone	ND	mg/L	1.00	200		01/21/03	TC
Tetrachloroethene	ND	mg/L	0.050	0.700		01/21/03	TC
Trichloroethene	ND	mg/L	0.050	0.500		01/21/03	TC
Vinyl chloride	ND	mg/L	0.050	0.200		01/21/03	TC

Abbreviations: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
* - Value exceeds Regulatory Level

REI Consultants Inc.

Date: 30-Jan-03

Client: WASTE TRON - USACE
 Client Sample 5536-02
 Project: 5536
 Site ID: PBOW OHIO(PENTOLITE RED)

Lab Order: 0301465
 Lab ID: 0301465-01A
 Collection 1/15/2003
 Matrix: SOIL

Analyses	Result	Units	PQL	Reg	Qual	Date	Analyst
TCLP SEMIVOLATILES		SW1311/8270C					
o-cresol	ND	mg/L	0.06	200		01/27/03	WP
m,p-cresol	ND	mg/L	0.13	200		01/27/03	WP
1,4-Dichlorobenzene	ND	mg/L	0.03	7.5		01/27/03	WP
2,4-Dinitrotoluene	0.37	mg/L	0.03	0.13	*	01/27/03	WP
Hexachlorobenzene	ND	mg/L	0.03	0.13		01/27/03	WP
Hexachlorobutadiene	ND	mg/L	0.03	0.50		01/27/03	WP
Hexachloroethane	ND	mg/L	0.03	3.0		01/27/03	WP
Nitrobenzene	ND	mg/L	0.03	2.0		01/27/03	WP
Pentachlorophenol	ND	mg/L	0.06	100		01/27/03	WP
Pyridine	ND	mg/L	0.03	5.0		01/27/03	WP
2,4,5-Trichlorophenol	ND	mg/L	0.06	400		01/27/03	WP
2,4,6-Trichlorophenol	ND	mg/L	0.06	2.0		01/27/03	WP

Abbreviations: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 * - Value exceeds Regulatory Level

REI Consultants Inc.

Date: 30-Jan-03

Client: WASTE TRON - USACE
Client Sample 5536-003
Project: 5536
Site ID: PBOW OHIO(PENTOLITE RED)

Lab Order: 0301465
Lab ID: 0301465-02A
Collection 1/15/2003
Matrix: SOIL

Analyses	Result	Units	PQL	Reg	Qual	Date	Analyst
TCLP SEMIVOLATILES							
			SW1311/8270C				
o-cresol	ND	mg/L	0.06	200		01/27/03	WP
m,p-cresol	ND	mg/L	0.13	200		01/27/03	WP
1,4-Dichlorobenzene	ND	mg/L	0.03	7.5		01/27/03	WP
2,4-Dinitrotoluene	0.49	mg/L	0.03	0.13		01/27/03	WP
Hexachlorobenzene	ND	mg/L	0.03	0.13		01/27/03	WP
Hexachlorobutadiene	ND	mg/L	0.03	0.50		01/27/03	WP
Hexachloroethane	ND	mg/L	0.03	3.0		01/27/03	WP
Nitrobenzene	ND	mg/L	0.03	2.0		01/27/03	WP
Pentachlorophenol	ND	mg/L	0.06	100		01/27/03	WP
Pyridine	ND	mg/L	0.03	5.0		01/27/03	WP
2,4,5-Trichlorophenol	ND	mg/L	0.06	400		01/27/03	WP
2,4,6-Trichlorophenol	ND	mg/L	0.06	2.0		01/27/03	WP

Abbreviations: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
* - Value exceeds Regulatory Level

REI Consultants Inc.

Date: 30-Jan-03

Client: WASTE TRON - USACE
Client Sample 5536-008C
Project: 5536
Site ID: PBOW OHIO(PENTOLITE RED)

Lab Order: 0301465
Lab ID: 0301465-03A
Collection 1/15/2003
Matrix: SOIL

Analyses	Result	Units	PQL	Reg	Qual	Date	Analyst
TCLP Percent Solids							
Percent Solids	100	wt%	NA	NA		01/16/03	CB
TCLP METALS BY ICP							
Arsenic	ND	mg/L	0.500	5.0		01/21/03	GD
Barium	ND	mg/L	1.00	100		01/21/03	GD
Cadmium	ND	mg/L	0.050	1.0		01/21/03	GD
Chromium	ND	mg/L	0.500	5.0		01/21/03	GD
Lead	ND	mg/L	0.500	5.0		01/21/03	GD
Silver	ND	mg/L	0.100	5.0		01/21/03	GD
TCLP MERCURY							
Mercury	ND	mg/L	0.002	0.200		01/20/03	JD
TCLP SELENIUM							
Selenium	ND	mg/L	0.100	1.0		01/20/03	DS
TCLP PESTICIDES							
Chlordane	ND	mg/L	0.002	0.030		01/23/03	JR
Endrin	ND	mg/L	0.020	0.020		01/23/03	JR
gamma-BHC	ND	mg/L	0.020	0.020		01/23/03	JR
Heptachlor	ND	mg/L	0.002	0.008		01/23/03	JR
Heptachlor epoxide	ND	mg/L	0.002	0.008		01/23/03	JR
Methoxychlor	ND	mg/L	0.020	10.0		01/23/03	JR
Toxaphene	ND	mg/L	0.002	0.500		01/23/03	JR
TCLP HERBICIDES							
2,4,5-TP (Silvex)	ND	mg/L	0.01	1.0		01/23/03	JR
2,4-D	ND	mg/L	0.05	10.0		01/23/03	JR
TCLP VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	mg/L	0.050	0.500		01/21/03	TC
Carbon tetrachloride	ND	mg/L	0.050	0.500		01/21/03	TC
Chlorobenzene	ND	mg/L	0.050	100		01/21/03	TC
Chloroform	ND	mg/L	0.050	6.0		01/21/03	TC
1,1-Dichloroethene	ND	mg/L	0.050	0.700		01/21/03	TC
1,2-Dichloroethane	ND	mg/L	0.050	0.500		01/21/03	TC
Methyl ethyl ketone	ND	mg/L	1.00	200		01/21/03	TC
Tetrachloroethene	ND	mg/L	0.050	0.700		01/21/03	TC
Trichloroethene	ND	mg/L	0.050	0.500		01/21/03	TC
Vinyl chloride	ND	mg/L	0.050	0.200		01/21/03	TC

Abbreviations: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
* - Value exceeds Regulatory Level

REI Consultants Inc.

Date: 30-Jan-03

Client: WASTE TRON - USACE
Client Sample 5536-008C
Project: 5536
Site ID: PBOW OHIO(PENTOLITE RED)

Lab Order: 0301465
Lab ID: 0301465-03A
Collection 1/15/2003
Matrix: SOIL

Analyses	Result	Units	PQL	Reg	Qual	Date	Analyst
TCLP SEMIVOLATILES		SW1311/8270C					
o-cresol	ND	mg/L	0.07	200		01/27/03	WP
m,p-cresol	ND	mg/L	0.13	200		01/27/03	WP
1,4-Dichlorobenzene	ND	mg/L	0.03	7.5		01/27/03	WP
2,4-Dinitrotoluene	0.61	mg/L	0.03	0.13	*	01/27/03	WP
Hexachlorobenzene	ND	mg/L	0.03	0.13		01/27/03	WP
Hexachlorobutadiene	ND	mg/L	0.03	0.50		01/27/03	WP
Hexachloroethane	ND	mg/L	0.03	3.0		01/27/03	WP
Nitrobenzene	ND	mg/L	0.03	2.0		01/27/03	WP
Pentachlorophenol	ND	mg/L	0.07	100		01/27/03	WP
Pyridine	ND	mg/L	0.03	5.0		01/27/03	WP
2,4,5-Trichlorophenol	ND	mg/L	0.07	400		01/27/03	WP
2,4,6-Trichlorophenol	ND	mg/L	0.07	2.0		01/27/03	WP

Abbreviations: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
* - Value exceeds Regulatory Level

REI Consultants Inc.

Date: 28-Mar-03

CLIENT: WASTE TRON - USACE
Project: WT5536
Site ID: PBOW 5536

Lab Order: 0303811

Data Review

Approved: _____
Ivan W. Leef - Inorganic Lab Manager Date

Approved: _____
Joseph Robertson - Organic Lab Manager Date

Abbreviations: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 23-May-03

Client: WASTE TRON - USACE
 Client Sample 5536-012
 Project: WT#5536
 Site ID: PBOW, OHIO

Lab Order: 0305430
 Lab ID: 0305430-01A
 Collection 5/12/2003
 Matrix: LIQUID

Analyses	Result	Units	MDL	PQL	Qual	Date	Analyst
EXPLOSIVES							
							SW8330
1,3,5-Trinitrobenzene	0.326	mg/L	NA	0.00250		05/16/03	TM
1,3-Dinitrobenzene	0.0918	mg/L	NA	0.000250		05/15/03	TM
2,4,6-Trinitrotoluene	2.21	mg/L	NA	0.00250		05/16/03	TM
2,4-Dinitrotoluene	ND	mg/L	NA	0.000250		05/15/03	TM
2,6-Dinitrotoluene	0.142	mg/L	NA	0.000250		05/15/03	TM
2-Amino-4,6-dinitrotoluene	ND	mg/L	NA	0.000250		05/15/03	TM
2-Nitrotoluene	ND	mg/L	NA	0.000250		05/15/03	TM
3-Nitrotoluene	ND	mg/L	NA	0.000250		05/15/03	TM
4-Amino-2,6-dinitrotoluene	ND	mg/L	NA	0.000250		05/15/03	TM
4-Nitrotoluene	ND	mg/L	NA	0.000250		05/15/03	TM
HMX	ND	mg/L	NA	0.000250		05/15/03	TM
Nitrobenzene	ND	mg/L	NA	0.000250		05/15/03	TM
RDX	0.191	mg/L	NA	0.00250		05/16/03	TM
Tetryl	ND	mg/L	NA	0.000250		05/15/03	TM

Abbreviations: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 23-May-03

CLIENT: WASTE TRON - USACE
Project: WT#5536
Site ID: PBOW, OHIO

Lab Order: 0305430

Data Review

Approved:

Joseph Robertson - Organic Lab Manager

Date

Abbreviations: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 09-Jul-04

Client: WASTE-TRON INC
Client Sample ID: 5879-155
Project: 5879
Site ID: PBOW TNTB,OH

Lab Order: 0406905
Lab ID: 0406905-01A
Collection Date: 6/16/2004
Matrix: SOIL

Analyses	Result	Units	PQL	Reg Level	Qual	Date Analyzed	Analyst
IGNITABILITY			ASTM D92				
Ignitability	No Flash to 250	°F	NA	NA		06/28/04 12:00 AM	CDS
PAINT FILTER			E9095				
Paint Filter	negative	NA	NA	NA		06/22/04 5:15 PM	CB
PERCENT MOISTURE			SM2540 B				
Percent Moisture	44	wt%	0.5	NA		06/29/04 12:00 AM	CDS
TCLP PERCENT SOLIDS			SW1311				
Percent Solids	94	wt%	NA	NA		06/22/04 3:00 PM	CB
TCLP METALS BY ICP			SW1311/6010B				
Arsenic	ND	mg/L	0.500	5		06/24/04 4:42 PM	JD
Barium	ND	mg/L	1.00	100		06/24/04 4:42 PM	JD
Cadmium	ND	mg/L	0.050	1		06/24/04 4:42 PM	JD
Chromium	ND	mg/L	0.500	5		06/24/04 4:42 PM	JD
Lead	ND	mg/L	0.500	5		06/24/04 4:42 PM	JD
Silver	ND	mg/L	0.100	5		06/24/04 4:42 PM	JD
TCLP MERCURY			SW1311/7470				
Mercury	ND	mg/L	0.002	0.2		06/24/04 1:38 PM	BL
TCLP SELENIUM			SW1311/7740				
Selenium	ND	mg/L	0.100	1		06/24/04 2:09 PM	GD
TCLP PESTICIDES			SW1311/8081				
Chlordane	ND	mg/L	0.002	0.03		07/03/04 12:41 PM	SA/JR
Endrin	ND	mg/L	0.020	0.02		07/03/04 12:41 PM	SA/JR
gamma-BHC	ND	mg/L	0.020	0.4		07/03/04 12:41 PM	SA/JR
Heptachlor	ND	mg/L	0.002	0.008		07/03/04 12:41 PM	SA/JR
Heptachlor epoxide	ND	mg/L	0.002	0.008		07/03/04 12:41 PM	SA/JR
Methoxychlor	ND	mg/L	0.020	10		07/03/04 12:41 PM	SA/JR
Toxaphene	ND	mg/L	0.002	0.5		07/03/04 12:41 PM	SA/JR
TCLP HERBICIDES			SW1311/8151				
2,4,5-TP (Silvex)	ND	mg/L	0.010	1		06/30/04 11:21 PM	JR
2,4-D	ND	mg/L	0.050	10		06/30/04 11:21 PM	JR

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 09-Jul-04

Client:	WASTE-TRON INC	Lab Order:	0406905
Client Sample ID:	5879-155	Lab ID:	0406905-01A
Project:	5879	Collection Date:	6/16/2004
Site ID:	PBOW TNTB,OH	Matrix:	SOIL

Analyses	Result	Units	PQL	Reg Level	Qual	Date Analyzed	Analyst
TCLP VOLATILE ORGANIC COMPOUNDS			SW1311/8260B				
Benzene	ND	mg/L	0.050	0.5		06/24/04 3:23 AM	CS/TC
Carbon tetrachloride	ND	mg/L	0.050	0.5		06/24/04 3:23 AM	CS/TC
Chlorobenzene	ND	mg/L	0.050	100		06/24/04 3:23 AM	CS/TC
Chloroform	ND	mg/L	0.050	6		06/24/04 3:23 AM	CS/TC
1,1-Dichloroethene	ND	mg/L	0.050	0.7		06/24/04 3:23 AM	CS/TC
1,2-Dichloroethane	ND	mg/L	0.050	0.5		06/24/04 3:23 AM	CS/TC
Methyl ethyl ketone	ND	mg/L	1.00	200		06/24/04 3:23 AM	CS/TC
Tetrachloroethene	ND	mg/L	0.050	0.7		06/24/04 3:23 AM	CS/TC
Trichloroethene	ND	mg/L	0.050	0.5		06/24/04 3:23 AM	CS/TC
Vinyl chloride	ND	mg/L	0.050	0.2		06/24/04 3:23 AM	CS/TC
TCLP SEMIVOLATILES			SW1311/8270C				
o-cresol	ND	mg/L	0.05	200		06/30/04 9:03 PM	WP
m,p-cresol	ND	mg/L	0.10	200		06/30/04 9:03 PM	WP
1,4-Dichlorobenzene	ND	mg/L	0.02	7.5		06/30/04 9:03 PM	WP
2,4-Dinitrotoluene	ND	mg/L	0.02	0.13		06/30/04 9:03 PM	WP
Hexachlorobenzene	ND	mg/L	0.02	0.13		06/30/04 9:03 PM	WP
Hexachlorobutadiene	ND	mg/L	0.02	0.5		06/30/04 9:03 PM	WP
Hexachloroethane	ND	mg/L	0.02	3		06/30/04 9:03 PM	WP
Nitrobenzene	ND	mg/L	0.02	2		06/30/04 9:03 PM	WP
Pentachlorophenol	ND	mg/L	0.05	100		06/30/04 9:03 PM	WP
Pyridine	ND	mg/L	0.02	5		06/30/04 9:03 PM	WP
2,4,5-Trichlorophenol	ND	mg/L	0.05	400		06/30/04 9:03 PM	WP
2,4,6-Trichlorophenol	ND	mg/L	0.05	2		06/30/04 9:03 PM	WP
DIESEL RANGE ORGANICS			SW8015B				
TPH (Diesel)	93.6	mg/Kg	4.0	NA		06/29/04 3:59 AM	GM
Surr: o-Terphenyl	94	%REC	30-130	NA		06/29/04 3:59 AM	GM
OIL RANGE ORGANICS			SW8015B				
TPH (Oil)	208	mg/Kg	9.9	NA		06/28/04 12:00 AM	GM
Surr: o-Terphenyl	94	%REC	30-130	NA		06/28/04 12:00 AM	GM
GASOLINE RANGE ORGANICS			SW8015B				
TPH (Gasoline)	ND	mg/Kg	5.00	NA		06/24/04 2:42 PM	CJB
Surr: 2,5-Dibromotoluene	42	%REC	42-138	NA		06/24/04 2:42 PM	CJB

Qualifiers: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable
TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 09-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-155
 Project: 5879
 Site ID: PBOW TNTB,OH

Lab Order: 0406905
 Lab ID: 0406905-01A
 Collection Date: 6/16/2004
 Matrix: SOIL

Analyses	Result	Units	PQL	Reg Level	Qual	Date Analyzed	Analyst
VOLATILE ORGANIC COMPOUNDS			SW8021B				
Benzene	0.0071	mg/Kg	0.0050	NA		06/24/04 2:42 PM	CJB
Toluene	0.0103	mg/Kg	0.0050	NA		06/24/04 2:42 PM	CJB
Ethylbenzene	ND	mg/Kg	0.0050	NA		06/24/04 2:42 PM	CJB
m,p-Xylene	ND	mg/Kg	0.0100	NA		06/24/04 2:42 PM	CJB
o-Xylene	ND	mg/Kg	0.0050	NA		06/24/04 2:42 PM	CJB
Surr: 1,1,1-Trifluorotoluene	115	%REC	42-138	NA		06/24/04 2:42 PM	CJB
PH			SW9045C				
pH	7.23	SU	NA	NA		06/29/04 2:45 PM	TS

Qualifiers:
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 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 09-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-150
 Project: 5879
 Site ID: PBOW TNTB,OH

Lab Order: 0406905
 Lab ID: 0406905-02A
 Collection Date: 6/16/2004
 Matrix: LIQUID

Analyses	Result	Units	PQL	Reg Level	Qual	Date Analyzed	Analyst
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/L	0.000250		NA	06/29/04 7:15 PM	TM
1,3-Dinitrobenzene	ND	mg/L	0.000250		NA	06/29/04 7:15 PM	TM
2,4,6-Trinitrotoluene	0.0694	mg/L	0.000250		NA	06/29/04 7:15 PM	TM
2,4-Dinitrotoluene	0.0572	mg/L	0.000250		NA	06/29/04 7:15 PM	TM
2,6-Dinitrotoluene	0.0496	mg/L	0.000250		NA	06/29/04 7:15 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/L	0.000250		NA	06/29/04 7:15 PM	TM
2-Nitrotoluene	ND	mg/L	0.000250		NA	06/29/04 7:15 PM	TM
3-Nitrotoluene	ND	mg/L	0.000250		NA	06/29/04 7:15 PM	TM
4-Amino-2,6-dinitrotoluene	0.0324	mg/L	0.000250		NA	06/29/04 7:15 PM	TM
4-Nitrotoluene	ND	mg/L	0.000250		NA	06/29/04 7:15 PM	TM
HMX	ND	mg/L	0.000250		NA	06/29/04 7:15 PM	TM
Nitrobenzene	ND	mg/L	0.000250		NA	06/29/04 7:15 PM	TM
RDX	ND	mg/L	0.000250		NA	06/29/04 7:15 PM	TM
Tetryl	ND	mg/L	0.000250		NA	06/29/04 7:15 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 09-Jul-04

Client: WASTE-TRON INC
Client Sample ID: 5879-151
Project: 5879
Site ID: PBOW TNTB,OH

Lab Order: 0406905
Lab ID: 0406905-03A
Collection Date: 6/16/2004
Matrix: LIQUID

Analyses	Result	Units	PQL	Reg Level	Qual	Date Analyzed	Analyst
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM
1,3-Dinitrobenzene	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM
2,4,6-Trinitrotoluene	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM
2,4-Dinitrotoluene	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM
2,6-Dinitrotoluene	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM
2-Nitrotoluene	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM
3-Nitrotoluene	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM
4-Nitrotoluene	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM
HMX	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM
Nitrobenzene	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM
RDX	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM
Tetryl	ND	mg/L	0.000250	NA		06/29/04 7:56 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 09-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-152
 Project: 5879
 Site ID: PBOW TNTB,OH

Lab Order: 0406905
 Lab ID: 0406905-04A
 Collection Date: 6/16/2004
 Matrix: LIQUID

Analyses	Result	Units	PQL	Reg Level	Qual	Date Analyzed	Analyst
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/L	0.000250		NA	06/29/04 8:36 PM	TM
1,3-Dinitrobenzene	ND	mg/L	0.000250		NA	06/29/04 8:36 PM	TM
2,4,6-Trinitrotoluene	0.0145	mg/L	0.000250		NA	06/29/04 8:36 PM	TM
2,4-Dinitrotoluene	ND	mg/L	0.000250		NA	06/29/04 8:36 PM	TM
2,6-Dinitrotoluene	ND	mg/L	0.000250		NA	06/29/04 8:36 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/L	0.000250		NA	06/29/04 8:36 PM	TM
2-Nitrotoluene	ND	mg/L	0.000250		NA	06/29/04 8:36 PM	TM
3-Nitrotoluene	ND	mg/L	0.000250		NA	06/29/04 8:36 PM	TM
4-Amino-2,6-dinitrotoluene	0.0117	mg/L	0.000250		NA	06/29/04 8:36 PM	TM
4-Nitrotoluene	ND	mg/L	0.000250		NA	06/29/04 8:36 PM	TM
HMX	ND	mg/L	0.000250		NA	06/29/04 8:36 PM	TM
Nitrobenzene	ND	mg/L	0.000250		NA	06/29/04 8:36 PM	TM
RDX	ND	mg/L	0.000250		NA	06/29/04 8:36 PM	TM
Tetryl	ND	mg/L	0.000250		NA	06/29/04 8:36 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 09-Jul-04

Client: WASTE-TRON INC
Client Sample ID: 5879-153
Project: 5879
Site ID: PBOW TNTB,OH

Lab Order: 0406905
Lab ID: 0406905-05A
Collection Date: 6/16/2004
Matrix: LIQUID

Analyses	Result	Units	PQL	Reg Level	Qual	Date Analyzed	Analyst
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/L	0.000250	NA		06/29/04 9:16 PM	TM
1,3-Dinitrobenzene	ND	mg/L	0.000250	NA		06/29/04 9:16 PM	TM
2,4,6-Trinitrotoluene	ND	mg/L	0.000250	NA		06/29/04 9:16 PM	TM
2,4-Dinitrotoluene	0.0208	mg/L	0.000250	NA		06/29/04 9:16 PM	TM
2,6-Dinitrotoluene	ND	mg/L	0.000250	NA		06/29/04 9:16 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/L	0.000250	NA		06/29/04 9:16 PM	TM
2-Nitrotoluene	ND	mg/L	0.000250	NA		06/29/04 9:16 PM	TM
3-Nitrotoluene	ND	mg/L	0.000250	NA		06/29/04 9:16 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/L	0.000250	NA		06/29/04 9:16 PM	TM
4-Nitrotoluene	ND	mg/L	0.000250	NA		06/29/04 9:16 PM	TM
HMX	ND	mg/L	0.000250	NA		06/29/04 9:16 PM	TM
Nitrobenzene	ND	mg/L	0.000250	NA		06/29/04 9:16 PM	TM
RDX	ND	mg/L	0.000250	NA		06/29/04 9:16 PM	TM
Tetryl	ND	mg/L	0.000250	NA		06/29/04 9:16 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable
TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 09-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-154
 Project: 5879
 Site ID: PBOW TNTB,OH

Lab Order: 0406905
 Lab ID: 0406905-06A
 Collection Date: 6/16/2004
 Matrix: LIQUID

Analyses	Result	Units	PQL	Reg Level	Qual	Date Analyzed	Analyst
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	0.174	mg/L	0.00250	NA		06/30/04 12:04 PM	TM
1,3-Dinitrobenzene	0.0880	mg/L	0.00250	NA		06/30/04 12:04 PM	TM
2,4,6-Trinitrotoluene	ND	mg/L	0.00250	NA		06/30/04 12:04 PM	TM
2,4-Dinitrotoluene	ND	mg/L	0.0250	NA		06/30/04 2:04 PM	TM
2,4-Dinitrotoluene	ND	mg/L	0.000250	NA		06/29/04 9:56 PM	TM
2,6-Dinitrotoluene	6.64	mg/L	0.0250	NA		06/30/04 2:04 PM	TM
2-Amino-4,6-dinitrotoluene	1.08	mg/L	0.00250	NA		06/30/04 12:04 PM	TM
2-Nitrotoluene	ND	mg/L	0.000250	NA		06/29/04 9:56 PM	TM
3-Nitrotoluene	ND	mg/L	0.000250	NA		06/29/04 9:56 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/L	0.000250	NA		06/29/04 9:56 PM	TM
4-Nitrotoluene	ND	mg/L	0.000250	NA		06/29/04 9:56 PM	TM
HMX	ND	mg/L	0.000250	NA		06/29/04 9:56 PM	TM
Nitrobenzene	ND	mg/L	0.000250	NA		06/29/04 9:56 PM	TM
RDX	0.353	mg/L	0.00250	NA		06/30/04 12:04 PM	TM
Tetryl	ND	mg/L	0.000250	NA		06/29/04 9:56 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 09-Jul-04

Client: WASTE-TRON INC
Client Sample ID: 5879-156
Project: 5879
Site ID: PBOW TNTB,OH

Lab Order: 0406905
Lab ID: 0406905-07A
Collection Date: 6/17/2004
Matrix: SOIL

Analyses	Result	Units	PQL	Reg Level	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	15	wt%	0.5		NA	06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM
1,3-Dinitrobenzene	ND	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM
2,4,6-Trinitrotoluene	11.7	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM
2,4-Dinitrotoluene	ND	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM
2-Amino-4,6-dinitrotoluene	8.35	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM
2-Nitrotoluene	ND	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM
3-Nitrotoluene	ND	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM
4-Amino-2,6-dinitrotoluene	11.2	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM
4-Nitrotoluene	ND	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM
HMX	ND	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM
Nitrobenzene	ND	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM
RDX	ND	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM
Tetryl	ND	mg/Kg	0.488		NA	06/30/04 4:05 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable
TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 09-Jul-04

Client: WASTE-TRON INC
Client Sample ID: 5879-157
Project: 5879
Site ID: PBOW TNTB,OH

Lab Order: 0406905
Lab ID: 0406905-08A
Collection Date: 6/17/2004
Matrix: SOIL

Analyses	Result	Units	PQL	Reg Level	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	18	wt%	0.5	NA		06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	30.2	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM
1,3-Dinitrobenzene	ND	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM
2,4,6-Trinitrotoluene	121	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM
2,4-Dinitrotoluene	20.2	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM
2-Nitrotoluene	ND	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM
3-Nitrotoluene	ND	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM
4-Amino-2,6-dinitrotoluene	19.9	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM
4-Nitrotoluene	ND	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM
HMX	ND	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM
Nitrobenzene	ND	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM
RDX	18.6	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM
Tetryl	ND	mg/Kg	0.498	NA		06/30/04 2:45 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

Client: WASTE-TRON INC
Project: 5879
Site ID: PBOW TNTB,OH

Lab Order: 0406905

Data Review

Approved: Ivan W. Leef 7-9-04
Ivan W. Leef - Inorganic Lab Manager Date

Approved: Joseph Robertson 7-9-04
Joseph Robertson - Organic Lab Manager Date

Qualifiers: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable
TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 15-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-168
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407094
 Lab ID: 0407094-01A
 Collection Date: 6/30/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	14	wt%	NA	0.5		07/07/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	5.58	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM
1,3-Dinitrobenzene	6.98	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM
2,4,6-Trinitrotoluene	9.76	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM
2,4-Dinitrotoluene	5.21	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM
2-Amino-4,6-dinitrotoluene	2.30	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM
4-Amino-2,6-dinitrotoluene	4.62	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM
HMX	ND	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM
RDX	5.03	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM
Tetryl	ND	mg/Kg	NA	0.500		07/13/04 12:06 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL.
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 15-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-169
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407094
 Lab ID: 0407094-02A
 Collection Date: 6/30/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	13	wt%	NA	0.5		07/07/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	6.06	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM
1,3-Dinitrobenzene	7.48	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM
2,4,6-Trinitrotoluene	42.6	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM
2,4-Dinitrotoluene	6.28	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM
4-Amino-2,6-dinitrotoluene	6.41	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM
HMX	ND	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM
RDX	6.50	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM
Tetryl	ND	mg/Kg	NA	0.500		07/13/04 12:46 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 15-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-170
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407094
 Lab ID: 0407094-03A
 Collection Date: 6/30/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	18	wt%	NA	0.5		07/07/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	19.6	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM
1,3-Dinitrobenzene	10.2	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM
2,4,6-Trinitrotoluene	15.0	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM
2,4-Dinitrotoluene	11.5	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM
2,6-Dinitrotoluene	14.2	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM
2-Amino-4,6-dinitrotoluene	5.53	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM
4-Amino-2,6-dinitrotoluene	7.56	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM
HMX	ND	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM
RDX	8.73	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM
Tetryl	ND	mg/Kg	NA	0.495		07/13/04 1:26 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 II - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 15-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-171
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407094
 Lab ID: 0407094-04A
 Collection Date: 6/30/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	19	wt%	NA	0.5		07/07/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	11.0	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM
1,3-Dinitrobenzene	9.35	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM
2,4,6-Trinitrotoluene	13.6	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM
2,4-Dinitrotoluene	8.68	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM
2,6-Dinitrotoluene	10.3	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM
2-Amino-4,6-dinitrotoluene	5.85	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM
4-Amino-2,6-dinitrotoluene	11.6	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM
HMX	ND	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM
RDX	17.7	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM
Tetryl	ND	mg/Kg	NA	0.490		07/13/04 2:06 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 15-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-172
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407094
 Lab ID: 0407094-05A
 Collection Date: 6/30/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	15	wt%	NA	0.5		07/07/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	9.94	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM
1,3-Dinitrobenzene	8.70	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM
2,4,6-Trinitrotoluene	24.8	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM
2,4-Dinitrotoluene	7.67	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM
4-Amino-2,6-dinitrotoluene	10.1	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM
HMX	ND	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM
RDX	12.6	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM
Tetryl	ND	mg/Kg	NA	0.500		07/13/04 2:46 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 II - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 15-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-173
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407094
 Lab ID: 0407094-06A
 Collection Date: 6/30/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	13	wt%	NA	0.5		07/07/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	10.7	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM
1,3-Dinitrobenzene	7.96	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM
2,4,6-Trinitrotoluene	10.3	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM
2,4-Dinitrotoluene	6.70	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM
2-Amino-4,6-dinitrotoluene	2.84	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM
4-Amino-2,6-dinitrotoluene	5.18	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM
HMX	ND	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM
RDX	8.25	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM
Tetryl	ND	mg/Kg	NA	0.500		07/13/04 3:27 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL.
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 15-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-174
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407094
 Lab ID: 0407094-07A
 Collection Date: 6/30/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	13	wt%	NA	0.5		07/07/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	12.7	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM
1,3-Dinitrobenzene	8.85	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM
2,4,6-Trinitrotoluene	11.7	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM
2,4-Dinitrotoluene	9.50	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM
2-Amino-4,6-dinitrotoluene	4.47	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM
4-Amino-2,6-dinitrotoluene	8.31	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM
HMX	ND	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM
RDX	12.4	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM
Tetryl	ND	mg/Kg	NA	0.495		07/13/04 4:07 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 15-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-175
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407094
 Lab ID: 0407094-08A
 Collection Date: 6/30/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	14	wt%	NA	0.5		07/07/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	6.11	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM
1,3-Dinitrobenzene	6.74	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM
2,4,6-Trinitrotoluene	11.1	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM
2,4-Dinitrotoluene	5.70	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM
4-Amino-2,6-dinitrotoluene	5.08	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM
HMX	ND	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM
RDX	5.75	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM
Tetryl	ND	mg/Kg	NA	0.493		07/13/04 4:47 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 15-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-176
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407094
 Lab ID: 0407094-09A
 Collection Date: 6/30/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	17	wt%	NA	0.5		07/07/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	11.2	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM
1,3-Dinitrobenzene	9.62	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM
2,4,6-Trinitrotoluene	10.1	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM
2,4-Dinitrotoluene	6.04	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM
2,6-Dinitrotoluene	7.25	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM
2-Amino-4,6-dinitrotoluene	3.30	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM
4-Amino-2,6-dinitrotoluene	5.17	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM
HMX	ND	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM
RDX	ND	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM
Tetryl	ND	mg/Kg	NA	0.498		07/13/04 5:27 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 15-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-177
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407094
 Lab ID: 0407094-10A
 Collection Date: 7/1/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	18	wt%	NA	0.5		07/07/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	9.80	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM
1,3-Dinitrobenzene	9.38	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM
2,4,6-Trinitrotoluene	13.1	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM
2,4-Dinitrotoluene	9.30	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM
2-Amino-4,6-dinitrotoluene	4.28	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM
4-Amino-2,6-dinitrotoluene	10.9	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM
HMX	ND	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM
RDX	16.6	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM
Tetryl	ND	mg/Kg	NA	0.493		07/13/04 6:08 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 15-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-178
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407094
 Lab ID: 0407094-11A
 Collection Date: 7/1/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	20	wt%	NA	0.5		07/07/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	12.1	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM
1,3-Dinitrobenzene	8.94	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM
2,4,6-Trinitrotoluene	12.7	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM
2,4-Dinitrotoluene	8.60	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM
2-Amino-4,6-dinitrotoluene	4.19	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM
4-Amino-2,6-dinitrotoluene	8.05	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM
HMX	ND	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM
RDX	15.1	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM
Tetryl	ND	mg/Kg	NA	0.495		07/13/04 6:48 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 15-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-178C
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407094
 Lab ID: 0407094-12A
 Collection Date: 7/1/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	21	wt%	NA	0.5		07/07/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	4.90	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM
1,3-Dinitrobenzene	6.91	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM
2,4-Dinitrotoluene	4.77	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM
HMX	ND	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM
RDX	ND	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM
Tetryl	ND	mg/Kg	NA	0.495		07/13/04 7:28 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL.
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 15-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-179
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407094
 Lab ID: 0407094-13A
 Collection Date: 7/1/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	20	wt%	NA	0.5		07/07/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	13.8	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM
1,3-Dinitrobenzene	9.73	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM
2,4,6-Trinitrotoluene	20.8	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM
2,4-Dinitrotoluene	10.4	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM
2-Amino-4,6-dinitrotoluene	4.13	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM
4-Amino-2,6-dinitrotoluene	16.4	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM
HMX	ND	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM
RDX	ND	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM
Tetryl	ND	mg/Kg	NA	0.500		07/13/04 8:08 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

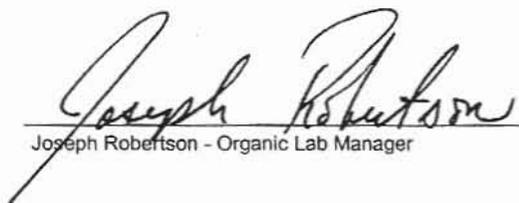
Date: 15-Jul-04

Client: WASTE-TRON INC
Project: 5879
Site ID: PBOW OHIO

Lab Order: 0407094

Data Review

Approved:


Joseph Robertson - Organic Lab Manager

7-15-04
Date

Qualifiers:

ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable
TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-180
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407413
 Lab ID: 0407413-01A
 Collection Date: 7/8/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	16	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	12.3	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM
1,3-Dinitrobenzene	8.91	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM
2,4-Dinitrotoluene	9.37	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM
HMX	ND	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM
RDX	ND	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM
Tetryl	ND	mg/Kg	NA	0.488		07/15/04 6:15 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client:	WASTE-TRON INC	Lab Order:	0407413
Client Sample ID:	5879-183	Lab ID:	0407413-04A
Project:	5879	Collection Date:	7/8/2004
Site ID:	PBOW OHIO	Matrix:	SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	20	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM
1,3-Dinitrobenzene	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM
2,4-Dinitrotoluene	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM
HMX	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM
RDX	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM
Tetryl	ND	mg/Kg	NA	0.493		07/15/04 8:15 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 28-Jan-03

Client: WASTE TRON - USACE
 Client Sample: 5536-04
 Project: 5536
 Site ID: PBOW PENTOLITE RED,OH

Lab Order: 0301468
 Lab ID: 0301468-01A
 Collection: 1/15/2003
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date	Analyst
PERCENT MOISTURE		SM2540 B					
Percent Moisture	21	wt%	NA	0.5		01/21/03	GM
EXPLOSIVES		SW8330					
1,3,5-Trinitrobenzene	39.0	mg/Kg	NA	0.500		01/23/03	TM
1,3-Dinitrobenzene	14.7	mg/Kg	NA	0.500		01/23/03	TM
2,4,6-Trinitrotoluene	9.30	mg/Kg	NA	0.500		01/23/03	TM
2,4-Dinitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
2,6-Dinitrotoluene	4.88	mg/Kg	NA	0.500		01/23/03	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
4-Amino-2,6-dinitrotoluene	2.41	mg/Kg	NA	0.500		01/23/03	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
HMX	ND	mg/Kg	NA	0.500		01/23/03	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		01/23/03	TM
RDX	28.5	mg/Kg	NA	0.500		01/23/03	TM
Tetryl	ND	mg/Kg	NA	0.500		01/23/03	TM

Abbreviations: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 28-Jan-03

Client: WASTE TRON - USACE
Client Sample 5536-05
Project: 5536
Site ID: PBOW PENTOLITE RED,OH

Lab Order: 0301468
Lab ID: 0301468-02A
Collection 1/15/2003
Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date	Analyst
PERCENT MOISTURE		SM2540 B					
Percent Moisture	19	wt%	NA	0.5		01/21/03	GM
EXPLOSIVES		SW8330					
1,3,5-Trinitrobenzene	39.1	mg/Kg	NA	0.495		01/23/03	TM
1,3-Dinitrobenzene	17.2	mg/Kg	NA	0.495		01/23/03	TM
2,4,6-Trinitrotoluene	6.88	mg/Kg	NA	0.495		01/23/03	TM
2,4-Dinitrotoluene	3.11	mg/Kg	NA	0.495		01/23/03	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.495		01/23/03	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.495		01/23/03	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.495		01/23/03	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.495		01/23/03	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.495		01/23/03	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.495		01/23/03	TM
HMX	ND	mg/Kg	NA	0.495		01/23/03	TM
Nitrobenzene	4.49	mg/Kg	NA	0.495		01/23/03	TM
RDX	43.6	mg/Kg	NA	0.495		01/23/03	TM
Tetryl	ND	mg/Kg	NA	0.495		01/23/03	TM

Abbreviations: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 28-Jan-03

Client: WASTE TRON - USACE
 Client Sample 5536-06
 Project: 5536
 Site ID: PBOW PENTOLITE RED,OH

Lab Order: 0301468
 Lab ID: 0301468-03A
 Collection 1/15/2003
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date	Analyst
PERCENT MOISTURE							
		SM2540 B					
Percent Moisture	21	wt%	NA	0.5		01/21/03	GM
EXPLOSIVES							
		SW8330					
1,3,5-Trinitrobenzene	35.5	mg/Kg	NA	0.500		01/23/03	TM
1,3-Dinitrobenzene	12.0	mg/Kg	NA	0.500		01/23/03	TM
2,4,6-Trinitrotoluene	317	mg/Kg	NA	0.500		01/23/03	TM
2,4-Dinitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
HMX	ND	mg/Kg	NA	0.500		01/23/03	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		01/23/03	TM
RDX	28.9	mg/Kg	NA	0.500		01/23/03	TM
Tetryl	ND	mg/Kg	NA	0.500		01/23/03	TM

Abbreviations: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 28-Jan-03

Client: WASTE TRON - USACE
 Client Sample 5536-07
 Project: 5536
 Site ID: PBOW PENTOLITE RED,OH

Lab Order: 0301468
 Lab ID: 0301468-04A
 Collection 1/15/2003
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date	Analyst
PERCENT MOISTURE							
Percent Moisture	22	wt%	NA	0.5		01/21/03	GM
EXPLOSIVES							
1,3,5-Trinitrobenzene	22.9	mg/Kg	NA	0.495		01/23/03	TM
1,3-Dinitrobenzene	7.90	mg/Kg	NA	0.495		01/23/03	TM
2,4,6-Trinitrotoluene	1,440	mg/Kg	NA	4.95		01/24/03	TM
2,4-Dinitrotoluene	3.71	mg/Kg	NA	0.495		01/23/03	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.495		01/23/03	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.495		01/23/03	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.495		01/23/03	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.495		01/23/03	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.495		01/23/03	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.495		01/23/03	TM
HMX	ND	mg/Kg	NA	0.495		01/23/03	TM
Nitrobenzene	3.16	mg/Kg	NA	0.495		01/23/03	TM
RDX	17.8	mg/Kg	NA	0.495		01/23/03	TM
Tetryl	ND	mg/Kg	NA	0.495		01/23/03	TM

Abbreviations: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 28-Jan-03

Client: WASTE TRON - USACE
Client Sample: 5536-01
Project: 5536
Site ID: PBOW PENTOLITE RED,OH

Lab Order: 0301468
Lab ID: 0301468-05A
Collection: 1/15/2003
Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date	Analyst
PERCENT MOISTURE		SM2540 B					
Percent Moisture	19	wt%	NA	0.5		01/21/03	GM
EXPLOSIVES		SW8330					
1,3,5-Trinitrobenzene	18.0	mg/Kg	NA	0.500		01/23/03	TM
1,3-Dinitrobenzene	10.7	mg/Kg	NA	0.500		01/23/03	TM
2,4,6-Trinitrotoluene	13.7	mg/Kg	NA	0.500		01/23/03	TM
2,4-Dinitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		01/23/03	TM
HMX	ND	mg/Kg	NA	0.500		01/23/03	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		01/23/03	TM
RDX	26.2	mg/Kg	NA	0.500		01/23/03	TM
Tetryl	ND	mg/Kg	NA	0.500		01/23/03	TM

Abbreviations: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 28-Jan-03

Client: WASTE TRON - USACE
 Client Sample 5536-01C
 Project: 5536
 Site ID: PBOW PENTOLITE RED,OH

Lab Order: 0301468
 Lab ID: 0301468-06A
 Collection 1/15/2003
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date	Analyst
PERCENT MOISTURE		SM2540 B					
Percent Moisture	22	wt%	NA	0.5		01/21/03	GM
EXPLOSIVES		SW8330					
1,3,5-Trinitrobenzene	29.6	mg/Kg	NA	0.488		01/23/03	TM
1,3-Dinitrobenzene	14.5	mg/Kg	NA	0.488		01/23/03	TM
2,4,6-Trinitrotoluene	23.9	mg/Kg	NA	0.488		01/23/03	TM
2,4-Dinitrotoluene	1.71	mg/Kg	NA	0.488		01/23/03	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.488		01/23/03	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.488		01/23/03	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.488		01/23/03	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.488		01/23/03	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.488		01/23/03	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.488		01/23/03	TM
HMX	ND	mg/Kg	NA	0.488		01/23/03	TM
Nitrobenzene	3.47	mg/Kg	NA	0.488		01/23/03	TM
RDX	23.2	mg/Kg	NA	0.488		01/23/03	TM
Tetryl	ND	mg/Kg	NA	0.488		01/23/03	TM

Abbreviations: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 28-Jan-03

CLIENT: WASTE TRON - USACE
Project: 5536
Site ID: PBOW PENTOLITE RED,OH

Lab Order: 0301468

Data Review

Approved:

Joseph Robertson - Organic Lab Manager

Date

Abbreviations: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 24-Feb-03

Client: WASTE TRON - USACE
Client Sample: 5536-009
Project: WT 5536
Site ID: PBOW 5536

Lab Order: 0301910
Lab ID: 0301910-01A
Collection: 1/30/2003
Matrix: LIQUID

Analyses	Result	Units	PQL	Reg Level	Qual Date	Analyst
pH						
pH	7.69	SU	NA	NA	02/03/03	DSA
FLASHPOINT						
Ignitability	No Flash to 90	°C	NA	NA	02/04/03	WP
TCLP Percent Solids						
Percent Solids	<0.5	wt%	NA	NA	02/05/03	DT
TCLP METALS BY ICP						
SW1311/6010B						
Arsenic	ND	mg/L	0.500	5.0	02/05/03	GD
Barium	ND	mg/L	1.00	100	02/05/03	GD
Cadmium	ND	mg/L	0.050	1.0	02/05/03	GD
Chromium	ND	mg/L	0.500	5.0	02/05/03	GD
Lead	ND	mg/L	0.500	5.0	02/05/03	GD
Silver	ND	mg/L	0.100	5.0	02/05/03	GD
TCLP MERCURY						
SW1311/7470						
Mercury	ND	mg/L	0.002	0.200	02/04/03	JD
TCLP SELENIUM						
SW1311/7740						
Selenium	ND	mg/L	0.100	1.0	02/05/03	DS
TCLP PESTICIDES						
SW1311/8081						
Chlordane	ND	mg/L	0.002	0.030	02/14/03	JR
Endrin	ND	mg/L	0.020	0.020	02/14/03	JR
gamma-BHC	ND	mg/L	0.020	0.020	02/14/03	JR
Heptachlor	ND	mg/L	0.002	0.008	02/14/03	JR
Heptachlor epoxide	ND	mg/L	0.002	0.008	02/14/03	JR
Methoxychlor	ND	mg/L	0.020	10.0	02/14/03	JR
Toxaphene	ND	mg/L	0.002	0.500	02/14/03	JR
TCLP HERBICIDES						
SW1311/8151						
2,4,5-TP (Silvex)	ND	mg/L	0.01	1.0	02/20/03	JR
2,4-D	ND	mg/L	0.05	10.0	02/20/03	JR

Abbreviations: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
* - Value exceeds Regulatory Level

REI Consultants Inc.

Date: 24-Feb-03

Client: WASTE TRON - USACE
 Client Sample 5536-009
 Project: WT 5536
 Site ID: PBOW 5536

Lab Order: 0301910
 Lab ID: 0301910-01A
 Collection 1/30/2003
 Matrix: LIQUID

Analyses	Result	Units	PQL	Reg Level	Qual	Date	Analyst
TCLP VOLATILE ORGANIC COMPOUNDS		SW1311/8260B					
Benzene	ND	mg/L	0.050	0.500		02/12/03	TC
Carbon tetrachloride	ND	mg/L	0.050	0.500		02/12/03	TC
Chlorobenzene	ND	mg/L	0.050	100		02/12/03	TC
Chloroform	ND	mg/L	0.050	6.0		02/12/03	TC
1,1-Dichloroethene	ND	mg/L	0.050	0.700		02/12/03	TC
1,2-Dichloroethane	ND	mg/L	0.050	0.500		02/12/03	TC
Methyl ethyl ketone	ND	mg/L	1.00	200		02/12/03	TC
Tetrachloroethene	ND	mg/L	0.050	0.700		02/12/03	TC
Trichloroethene	ND	mg/L	0.050	0.500		02/12/03	TC
Vinyl chloride	ND	mg/L	0.050	0.200		02/12/03	TC
TCLP SEMIVOLATILES		SW1311/8270C					
o-cresol	ND	mg/L	0.02	200		02/05/03	WP
m,p-cresol	ND	mg/L	0.04	200		02/05/03	WP
1,4-Dichlorobenzene	ND	mg/L	0.01	7.5		02/05/03	WP
2,4-Dinitrotoluene	ND	mg/L	0.01	0.13		02/05/03	WP
Hexachlorobenzene	ND	mg/L	0.01	0.13		02/05/03	WP
Hexachlorobutadiene	ND	mg/L	0.01	0.50		02/05/03	WP
Hexachloroethane	ND	mg/L	0.01	3.0		02/05/03	WP
Nitrobenzene	ND	mg/L	0.01	2.0		02/05/03	WP
Pentachlorophenol	ND	mg/L	0.02	100		02/05/03	WP
Pyridine	ND	mg/L	0.01	5.0		02/05/03	WP
2,4,5-Trichlorophenol	ND	mg/L	0.02	400		02/05/03	WP
2,4,6-Trichlorophenol	ND	mg/L	0.02	2.0		02/05/03	WP

Abbreviations: ND - Not Detected at the PQL or MDL
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Qualifiers: J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 * - Value exceeds Regulatory Level

REI Consultants Inc.

Date: 24-Feb-03

Client: WASTE TRON - USACE
Project: WT 5536
Site ID: PBOW 5536

Lab Order: 0301910

Data Review

Approved: _____ Date
Ivan W. Leef - Inorganic Lab Manager

Approved: _____ Date
Joseph Robertson - Organic Lab Manager

Abbreviations: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
* - Value exceeds Regulatory Level

REI Consultants Inc.

Date: 07-Feb-03

Client: WASTE TRON - USACE
Client Sample 5536-010
Project: WTY5536
Site ID: PBOW OH

Lab Order: 0301911
Lab ID: 0301911-01A
Collection 1/30/2003
Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date	Analyst
PERCENT MOISTURE							
		SM2540 B					
Percent Moisture	22	wt%	NA	0.5		02/04/03	GM
EXPLOSIVES							
		SW8330					
1,3,5-Trinitrobenzene	24.9	mg/Kg	NA	0.498		02/05/03	TM
1,3-Dinitrobenzene	19.7	mg/Kg	NA	0.498		02/05/03	TM
2,4,6-Trinitrotoluene	364	mg/Kg	NA	0.498		02/05/03	TM
2,4-Dinitrotoluene	17.0	mg/Kg	NA	0.498		02/05/03	TM
2,6-Dinitrotoluene	8.88	mg/Kg	NA	0.498		02/05/03	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.498		02/05/03	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.498		02/05/03	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.498		02/05/03	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.498		02/05/03	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.498		02/05/03	TM
HMX	ND	mg/Kg	NA	0.498		02/05/03	TM
Nitrobenzene	ND	mg/Kg	NA	0.498		02/05/03	TM
RDX	22.4	mg/Kg	NA	0.498		02/05/03	TM
Tetryl	ND	mg/Kg	NA	0.498		02/05/03	TM

Abbreviations:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable

Qualifiers:
 J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 07-Feb-03

Client: WASTE TRON - USACE
 Client Sample 5536-011
 Project: WTY5536
 Site ID: PBOW OH

Lab Order: 0301911
 Lab ID: 0301911-02A
 Collection 1/30/2003
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date	Analyst
PERCENT MOISTURE							
		SM2540 B					
Percent Moisture	21	wt%	NA	0.5		02/04/03	GM
EXPLOSIVES							
		SW8330					
1,3,5-Trinitrobenzene	21.2	mg/Kg	NA	0.500		02/05/03	TM
1,3-Dinitrobenzene	15.5	mg/Kg	NA	0.500		02/05/03	TM
2,4,6-Trinitrotoluene	73.1	mg/Kg	NA	0.500		02/05/03	TM
2,4-Dinitrotoluene	12.3	mg/Kg	NA	0.500		02/05/03	TM
2,6-Dinitrotoluene	10.4	mg/Kg	NA	0.500		02/05/03	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.500		02/05/03	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		02/05/03	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		02/05/03	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.500		02/05/03	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		02/05/03	TM
HMX	ND	mg/Kg	NA	0.500		02/05/03	TM
Nitrobenzene	2.90	mg/Kg	NA	0.500		02/05/03	TM
RDX	20.4	mg/Kg	NA	0.500		02/05/03	TM
Tetryl	ND	mg/Kg	NA	0.500		02/05/03	TM

Abbreviations: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 07-Feb-03

CLIENT: WASTE TRON - USACE
Project: WTY5536
Site ID: PBOW OH

Lab Order: 0301911

Data Review

Approved:

Joseph Robertson - Organic Lab Manager

Date

Abbreviations: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 28-Mar-03

Client: WASTE TRON - USACE
 Client Sample: 5536-010A
 Project: WT5536
 Site ID: PBOW 5536

Lab Order: 0303811
 Lab ID: 0303811-01A
 Collection: 3/20/2003
 Matrix: LIQUID

Analyses	Result	Units	MDL	PQL	Qual	Date	Analyst
pH		E150.1					
pH	7.24	SU	NA	NA		03/26/03	DSA
CYANIDE, REACTIVE		SW 7.3.3.2					
Reactive Cyanide	ND	mg/L	NA	5.0		03/25/03	JJ
SULFIDE, REACTIVE		SW 7.3.4.2					
Reactive Sulfide	ND	mg/L	NA	50		03/25/03	JJ
FLASHPOINT		SW1010					
Ignitability	No Flash to 90	°C	NA	NA		03/28/03	WP
TCLP Percent Solids		SW1311					
Percent Solids	<0.5	wt%	NA	NA		03/23/03	CB
TCLP METALS BY ICP		SW1311/6010B					
Barium	ND	mg/L	NA	2.00		03/26/03	JT
Cadmium	ND	mg/L	NA	0.100		03/26/03	JT
Chromium	ND	mg/L	NA	1.00		03/26/03	JT
Silver	ND	mg/L	NA	0.200		03/26/03	JT
TCLP ARSENIC		SW1311/7060A					
Arsenic	ND	mg/L	NA	1.00		03/26/03	DS
TCLP LEAD		SW1311/7421					
Lead	ND	mg/L	NA	2.00		03/25/03	BL
TCLP MERCURY		SW1311/7470					
Mercury	ND	mg/L	NA	0.002		03/24/03	JD
TCLP SELENIUM		SW1311/7740					
Selenium	ND	mg/L	0.200	0.400		03/25/03	BL
TCLP VOLATILE ORGANIC COMPOUNDS		SW1311/8260B					
Benzene	ND	mg/L	NA	0.050		03/25/03	TC
Carbon tetrachloride	ND	mg/L	NA	0.050		03/25/03	TC
Chlorobenzene	ND	mg/L	NA	0.050		03/25/03	TC
Chloroform	ND	mg/L	NA	0.050		03/25/03	TC
1,1-Dichloroethene	ND	mg/L	NA	0.050		03/25/03	TC
1,2-Dichloroethane	ND	mg/L	NA	0.050		03/25/03	TC
Methyl ethyl ketone	ND	mg/L	NA	1.00		03/25/03	TC
Tetrachloroethene	ND	mg/L	NA	0.050		03/25/03	TC
Trichloroethene	ND	mg/L	NA	0.050		03/25/03	TC
Vinyl chloride	ND	mg/L	NA	0.050		03/25/03	TC

Abbreviations: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 28-Mar-03

Client: WASTE TRON - USACE
 Client Sample 5536-010A
 Project: WT5536
 Site ID: PBOW 5536

Lab Order: 0303811
 Lab ID: 0303811-01A
 Collection 3/20/2003
 Matrix: LIQUID

Analyses	Result	Units	MDL	PQL	Qual	Date	Analyst
TCLP SEMIVOLATILES		SW1311/8270C					
o-cresol	ND	mg/L	NA	0.02		03/28/03	WP
m,p-cresol	ND	mg/L	NA	0.04		03/28/03	WP
1,4-Dichlorobenzene	ND	mg/L	NA	0.01		03/28/03	WP
2,4-Dinitrotoluene	ND	mg/L	NA	0.01		03/28/03	WP
Hexachlorobenzene	ND	mg/L	NA	0.01		03/28/03	WP
Hexachlorobutadiene	ND	mg/L	NA	0.01		03/28/03	WP
Hexachloroethane	ND	mg/L	NA	0.01		03/28/03	WP
Nitrobenzene	ND	mg/L	NA	0.01		03/28/03	WP
Pentachlorophenol	ND	mg/L	NA	0.02		03/28/03	WP
Pyridine	ND	mg/L	NA	0.01		03/28/03	WP
2,4,5-Trichlorophenol	ND	mg/L	NA	0.02		03/28/03	WP
2,4,6-Trichlorophenol	ND	mg/L	NA	0.02		03/28/03	WP
CORROSIVITY		SW9045C					
Corrosivity	7.24	SU	NA	NA		03/27/03	DSA

Abbreviations: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable

Qualifiers: J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

REI Consultants Inc.

Date: 19-Jul-04

Client:	WASTE-TRON INC	Lab Order:	0407413
Client Sample ID:	5879-184	Lab ID:	0407413-05A
Project:	5879	Collection Date:	7/8/2004
Site ID:	PBOW OHIO	Matrix:	SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	23	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	26.1	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM
1,3-Dinitrobenzene	11.3	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM
2,4,6-Trinitrotoluene	19.3	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM
2,4-Dinitrotoluene	16.2	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM
4-Amino-2,6-dinitrotoluene	15.1	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM
HMX	ND	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM
RDX	26.3	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM
Tetryl	ND	mg/Kg	NA	0.500		07/15/04 8:55 PM	TM

Qualifiers:	ND - Not Detected at the PQL or MDL	J - Analyte detected below PQL
	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	MDL - Minimum Detection Limit	E - Value above quantitation range
	NA - Not Applicable	B - Analyte detected in the associated Method Blank
	TIC - Tentatively Identified Compounds	H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-185
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407413
 Lab ID: 0407413-06A
 Collection Date: 7/8/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	16	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	5.76	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM
1,3-Dinitrobenzene	6.43	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM
2,4,6-Trinitrotoluene	9.58	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM
2,4-Dinitrotoluene	6.28	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM
2-Amino-4,6-dinitrotoluene	1.81	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM
4-Amino-2,6-dinitrotoluene	4.62	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM
HMX	ND	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM
RDX	4.37	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM
Tetryl	ND	mg/Kg	NA	0.490		07/15/04 9:36 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-186
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407413
 Lab ID: 0407413-07A
 Collection Date: 7/8/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	18	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	5.60	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM
1,3-Dinitrobenzene	6.61	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM
2,4,6-Trinitrotoluene	9.48	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM
2,4-Dinitrotoluene	5.04	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM
HMX	ND	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM
RDX	4.26	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM
Tetryl	ND	mg/Kg	NA	0.490		07/15/04 10:16 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client:	WASTE-TRON INC	Lab Order:	0407413
Client Sample ID:	5879-187	Lab ID:	0407413-08A
Project:	5879	Collection Date:	7/8/2004
Site ID:	PBOW OHIO	Matrix:	SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	19	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	4.62	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM
1,3-Dinitrobenzene	6.73	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM
2,4,6-Trinitrotoluene	9.70	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM
2,4-Dinitrotoluene	5.60	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM
HMX	ND	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM
RDX	ND	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM
Tetryl	ND	mg/Kg	NA	0.490		07/15/04 10:56 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client:	WASTE-TRON INC	Lab Order:	0407413
Client Sample ID:	5879-188	Lab ID:	0407413-09A
Project:	5879	Collection Date:	7/8/2004
Site ID:	PBOW OHIO	Matrix:	SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	19	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	4.79	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM
1,3-Dinitrobenzene	6.39	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM
2,4,6-Trinitrotoluene	9.72	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM
2,4-Dinitrotoluene	5.36	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM
HMX	ND	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM
RDX	4.29	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM
Tetryl	ND	mg/Kg	NA	0.500		07/15/04 11:36 PM	TM

Qualifiers:	ND - Not Detected at the PQL or MDL	J - Analyte detected below PQL
	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	MDL - Minimum Detection Limit	E - Value above quantitation range
	NA - Not Applicable	B - Analyte detected in the associated Method Blank
	TIC - Tentatively Identified Compounds	H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-189
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407413
 Lab ID: 0407413-10A
 Collection Date: 7/8/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	14	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM
1,3-Dinitrobenzene	6.39	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM
2,4-Dinitrotoluene	4.54	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM
HMX	ND	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM
Nitrobenzene	ND	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM
RDX	ND	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM
Tetryl	ND	mg/Kg	NA	0.495		07/16/04 12:17 AM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client:	WASTE-TRON INC	Lab Order:	0407413
Client Sample ID:	5879-189C	Lab ID:	0407413-11A
Project:	5879	Collection Date:	7/8/2004
Site ID:	PBOW OHIO	Matrix:	SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	17	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM
1,3-Dinitrobenzene	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM
2,4-Dinitrotoluene	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM
HMX	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM
Nitrobenzene	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM
RDX	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM
Tetryl	ND	mg/Kg	NA	0.498		07/16/04 12:57 AM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-190
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407413
 Lab ID: 0407413-12A
 Collection Date: 7/8/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	18	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	4.60	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM
1,3-Dinitrobenzene	6.38	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM
2,4,6-Trinitrotoluene	9.56	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM
2,4-Dinitrotoluene	4.96	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM
HMX	ND	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM
Nitrobenzene	ND	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM
RDX	ND	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM
Tetryl	ND	mg/Kg	NA	0.495		07/16/04 1:37 AM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-191
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407413
 Lab ID: 0407413-13A
 Collection Date: 7/8/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	23	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM
1,3-Dinitrobenzene	6.27	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM
2,4,6-Trinitrotoluene	9.60	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM
2,4-Dinitrotoluene	4.50	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM
2-Amino-4,6-dinitrotoluene	1.86	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM
4-Amino-2,6-dinitrotoluene	4.17	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM
HMX	ND	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM
Nitrobenzene	ND	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM
RDX	ND	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM
Tetryl	ND	mg/Kg	NA	0.495		07/16/04 2:17 AM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-192
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407413
 Lab ID: 0407413-14A
 Collection Date: 7/8/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	17	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM
1,3-Dinitrobenzene	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM
2,4-Dinitrotoluene	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM
HMX	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM
Nitrobenzene	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM
RDX	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM
Tetryl	ND	mg/Kg	NA	0.490		07/16/04 2:58 AM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client:	WASTE-TRON INC	Lab Order:	0407413
Client Sample ID:	5879-193	Lab ID:	0407413-15A
Project:	5879	Collection Date:	7/8/2004
Site ID:	PBOW OHIO	Matrix:	SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	17	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	7.48	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM
1,3-Dinitrobenzene	7.69	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM
2,4,6-Trinitrotoluene	11.0	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM
2,4-Dinitrotoluene	7.98	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM
2-Amino-4,6-dinitrotoluene	2.62	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM
4-Amino-2,6-dinitrotoluene	9.54	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM
HMX	ND	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM
RDX	6.14	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM
Tetryl	ND	mg/Kg	NA	0.500		07/16/04 3:38 AM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-194
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407413
 Lab ID: 0407413-16A
 Collection Date: 7/8/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	20	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	7.02	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM
1,3-Dinitrobenzene	7.90	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM
2,4,6-Trinitrotoluene	11.5	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM
2,4-Dinitrotoluene	10.2	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM
2-Amino-4,6-dinitrotoluene	2.42	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM
4-Amino-2,6-dinitrotoluene	12.2	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM
HMX	ND	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM
Nitrobenzene	ND	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM
RDX	6.72	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM
Tetryl	ND	mg/Kg	NA	0.498		07/16/04 4:18 AM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-195
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407413
 Lab ID: 0407413-17A
 Collection Date: 7/8/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	20	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	10.5	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM
1,3-Dinitrobenzene	9.31	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM
2,4,6-Trinitrotoluene	17.9	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM
2,4-Dinitrotoluene	16.4	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM
4-Amino-2,6-dinitrotoluene	14.6	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM
HMX	ND	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM
RDX	9.25	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM
Tetryl	ND	mg/Kg	NA	0.500		07/16/04 4:59 AM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client:	WASTE-TRON INC	Lab Order:	0407413
Client Sample ID:	5879-182	Lab ID:	0407413-03A
Project:	5879	Collection Date:	7/8/2004
Site ID:	PBOW OHIO	Matrix:	SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	18	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	6.25	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM
1,3-Dinitrobenzene	6.90	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM
2,4,6-Trinitrotoluene	9.59	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM
2,4-Dinitrotoluene	5.17	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM
4-Amino-2,6-dinitrotoluene	4.48	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM
HMX	ND	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM
RDX	5.09	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM
Tetryl	ND	mg/Kg	NA	0.493		07/15/04 7:35 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-196
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0407413
 Lab ID: 0407413-18A
 Collection Date: 7/8/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	19	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	4.99	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM
1,3-Dinitrobenzene	6.78	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM
2,4,6-Trinitrotoluene	10.0	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM
2,4-Dinitrotoluene	5.21	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM
2-Amino-4,6-dinitrotoluene	1.94	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM
4-Amino-2,6-dinitrotoluene	4.82	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM
HMX	ND	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM
RDX	4.61	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM
Tetryl	ND	mg/Kg	NA	0.500		07/16/04 5:39 AM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client:	WASTE-TRON INC	Lab Order:	0407413
Client Sample ID:	5879-197	Lab ID:	0407413-19A
Project:	5879	Collection Date:	7/8/2004
Site ID:	PBOW OHIO	Matrix:	SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	23	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	9.29	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM
1,3-Dinitrobenzene	7.80	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM
2,4,6-Trinitrotoluene	10.7	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM
2,4-Dinitrotoluene	7.45	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM
2-Amino-4,6-dinitrotoluene	2.37	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM
4-Amino-2,6-dinitrotoluene	7.49	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM
HMX	ND	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM
Nitrobenzene	ND	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM
RDX	5.71	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM
Tetryl	ND	mg/Kg	NA	0.493		07/16/04 6:19 AM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client: WASTE-TRON INC
Project: 5879
Site ID: PBOW OHIO

Lab Order: 0407413

Data Review

Approved:


Joseph Robertson - Organic Lab Manager

7-19-04
Date

Qualifiers: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable
TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 11-Aug-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-232
 Project: 5879
 Site ID: PBOW, OH

Lab Order: 0407B23
 Lab ID: 0407B23-04A
 Collection Date: 7/29/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	12	wt%	NA	0.5		08/11/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM
1,3-Dinitrobenzene	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM
2,4-Dinitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM
HMX	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM
RDX	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM
Tetryl	ND	mg/Kg	NA	0.500		08/06/04 4:15 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 11-Aug-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-233
 Project: 5879
 Site ID: PBOW, OH

Lab Order: 0407B23
 Lab ID: 0407B23-05A
 Collection Date: 7/29/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	9.0	wt%	NA	0.5		08/11/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM
1,3-Dinitrobenzene	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM
2,4-Dinitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM
HMX	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM
RDX	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM
Tetryl	ND	mg/Kg	NA	0.500		08/06/04 4:55 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 11-Aug-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-234
 Project: 5879
 Site ID: PBOW, OH

Lab Order: 0407B23
 Lab ID: 0407B23-06A
 Collection Date: 7/29/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	11	wt%	NA	0.5		08/11/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM
1,3-Dinitrobenzene	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM
2,4-Dinitrotoluene	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM
HMX	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM
RDX	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM
Tetryl	ND	mg/Kg	NA	0.498		08/06/04 5:35 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 11-Aug-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-235
 Project: 5879
 Site ID: PBOW, OH

Lab Order: 0407B23
 Lab ID: 0407B23-07A
 Collection Date: 7/29/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	16	wt%	NA	0.5		08/11/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM
1,3-Dinitrobenzene	9.33	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM
2,4,6-Trinitrotoluene	12.4	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM
2,4-Dinitrotoluene	7.36	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM
2-Amino-4,6-dinitrotoluene	8.51	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM
4-Amino-2,6-dinitrotoluene	11.6	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM
HMX	ND	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM
RDX	ND	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM
Tetryl	ND	mg/Kg	NA	0.498		08/06/04 6:15 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 11-Aug-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-236
 Project: 5879
 Site ID: PBOW, OH

Lab Order: 0407B23
 Lab ID: 0407B23-08A
 Collection Date: 7/29/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	10	wt%	NA	0.5		08/11/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	9.15	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM
1,3-Dinitrobenzene	9.13	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM
2,4,6-Trinitrotoluene	12.5	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM
2,4-Dinitrotoluene	8.09	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM
2-Amino-4,6-dinitrotoluene	8.51	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM
4-Amino-2,6-dinitrotoluene	11.7	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM
HMX	ND	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM
RDX	ND	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM
Tetryl	ND	mg/Kg	NA	0.495		08/06/04 6:56 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 F - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 11-Aug-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-237
 Project: 5879
 Site ID: PBOW, OH

Lab Order: 0407B23
 Lab ID: 0407B23-09A
 Collection Date: 7/29/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	6.0	wt%	NA	0.5		08/11/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM
1,3-Dinitrobenzene	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM
2,4-Dinitrotoluene	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM
HMX	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM
RDX	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM
Tetryl	ND	mg/Kg	NA	0.488		08/06/04 7:36 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 11-Aug-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-238
 Project: 5879
 Site ID: PBOW, OH

Lab Order: 0407B23
 Lab ID: 0407B23-10A
 Collection Date: 7/29/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	18	wt%	NA	0.5		08/11/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	9.57	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM
1,3-Dinitrobenzene	9.28	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM
2,4,6-Trinitrotoluene	12.1	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM
2,4-Dinitrotoluene	6.67	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM
HMX	ND	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM
RDX	ND	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM
Tetryl	ND	mg/Kg	NA	0.493		08/06/04 8:16 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 11-Aug-04

Client: WASTE-TRON INC
Project: 5879
Site ID: PBOW, OH

Lab Order: 0407B23

Data Review

Approved: Ivan W. Leef 8-11-04
Ivan W. Leef - Inorganic Lab Manager Date

Approved: Joseph Robertson 8-11-04
Joseph Robertson - Organic Lab Manager Date

Qualifiers: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable
TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 02-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-158
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0406B28
 Lab ID: 0406B28-01A
 Collection Date: 6/22/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	18	wt%	NA	0.5		06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	9.84	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM
1,3-Dinitrobenzene	9.87	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM
2,4,6-Trinitrotoluene	13.0	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM
2,4-Dinitrotoluene	8.92	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM
2,6-Dinitrotoluene	7.34	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM
2-Amino-4,6-dinitrotoluene	9.09	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM
4-Amino-2,6-dinitrotoluene	11.9	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM
HMX	ND	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM
RDX	11.6	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM
Tetryl	ND	mg/Kg	NA	0.490		06/30/04 3:25 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 02-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-159
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0406B28
 Lab ID: 0406B28-02A
 Collection Date: 6/22/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	17	wt%	NA	0.5		06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	9.06	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM
1,3-Dinitrobenzene	9.06	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM
2,4,6-Trinitrotoluene	11.7	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM
2,4-Dinitrotoluene	7.81	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM
2-Amino-4,6-dinitrotoluene	9.46	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM
4-Amino-2,6-dinitrotoluene	12.3	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM
HMX	ND	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM
RDX	10.8	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM
Tetryl	ND	mg/Kg	NA	0.474		06/30/04 4:45 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 02-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-160
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0406B28
 Lab ID: 0406B28-03A
 Collection Date: 6/22/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	18	wt%	NA	0.5		06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	9.21	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM
1,3-Dinitrobenzene	8.93	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM
2,4,6-Trinitrotoluene	11.8	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM
2,4-Dinitrotoluene	6.50	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM
2,6-Dinitrotoluene	7.17	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM
2-Amino-4,6-dinitrotoluene	8.49	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM
4-Amino-2,6-dinitrotoluene	11.3	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM
HMX	ND	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM
RDX	10.9	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM
Tetryl	ND	mg/Kg	NA	0.488		06/30/04 5:26 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 02-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-161
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0406B28
 Lab ID: 0406B28-04A
 Collection Date: 6/22/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	23	wt%	NA	0.5		06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	11.4	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM
1,3-Dinitrobenzene	9.92	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM
2,4,6-Trinitrotoluene	12.3	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM
2,4-Dinitrotoluene	12.6	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM
2,6-Dinitrotoluene	7.82	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM
2-Amino-4,6-dinitrotoluene	9.60	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM
4-Amino-2,6-dinitrotoluene	12.7	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM
HMX	ND	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM
RDX	14.3	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM
Tetryl	ND	mg/Kg	NA	0.483		06/30/04 6:06 PM	TM

Qualifiers: ND - Not Detected at the PQL, or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 02-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-161C
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0406B28
 Lab ID: 0406B28-05A
 Collection Date: 6/22/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	21	wt%	NA	0.5		06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	9.41	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM
1,3-Dinitrobenzene	9.09	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM
2,4,6-Trinitrotoluene	12.1	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM
2,4-Dinitrotoluene	9.37	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM
2,6-Dinitrotoluene	7.59	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM
4-Amino-2,6-dinitrotoluene	11.8	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM
HMX	ND	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM
RDX	ND	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM
Tetryl	ND	mg/Kg	NA	0.493		06/30/04 6:46 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 02-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-162
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0406B28
 Lab ID: 0406B28-06A
 Collection Date: 6/24/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	18	wt%	NA	0.5		06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM
1,3-Dinitrobenzene	ND	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM
2,4-Dinitrotoluene	6.05	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM
2,6-Dinitrotoluene	7.24	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM
2-Amino-4,6-dinitrotoluene	8.63	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM
4-Amino-2,6-dinitrotoluene	11.7	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM
HMX	ND	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM
RDX	ND	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM
Tetryl	ND	mg/Kg	NA	0.495		06/30/04 7:26 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 02-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-163
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0406B28
 Lab ID: 0406B28-07A
 Collection Date: 6/24/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	18	wt%	NA	0.5		06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM
1,3-Dinitrobenzene	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM
2,4-Dinitrotoluene	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM
HMX	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM
RDX	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM
Tetryl	ND	mg/Kg	NA	0.483		06/30/04 8:07 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 02-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-164
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0406B28
 Lab ID: 0406B28-08A
 Collection Date: 6/24/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	19	wt%	NA	0.5		06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	13.7	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM
1,3-Dinitrobenzene	10.4	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM
2,4,6-Trinitrotoluene	12.4	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM
2,4-Dinitrotoluene	8.86	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM
2-Amino-4,6-dinitrotoluene	9.75	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM
4-Amino-2,6-dinitrotoluene	12.4	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM
HMX	ND	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM
RDX	15.0	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM
Tetryl	ND	mg/Kg	NA	0.500		06/30/04 8:47 PM	TM

Qualifiers: ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 II - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 02-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-165
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0406B28
 Lab ID: 0406B28-09A
 Collection Date: 6/24/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	15	wt%	NA	0.5		06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM
1,3-Dinitrobenzene	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM
2,4-Dinitrotoluene	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM
HMX	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM
RDX	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM
Tetryl	ND	mg/Kg	NA	0.498		06/30/04 9:27 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 02-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-166
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0406B28
 Lab ID: 0406B28-10A
 Collection Date: 6/24/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	19	wt%	NA	0.5		06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM
1,3-Dinitrobenzene	ND	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM
2,4-Dinitrotoluene	6.08	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM
2,6-Dinitrotoluene	7.28	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM
2-Amino-4,6-dinitrotoluene	8.62	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM
4-Amino-2,6-dinitrotoluene	11.7	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM
HMX	ND	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM
RDX	ND	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM
Tetryl	ND	mg/Kg	NA	0.500		06/30/04 10:07 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 02-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-167
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0406B28
 Lab ID: 0406B28-11A
 Collection Date: 6/24/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	15	wt%	NA	0.5		06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM
1,3-Dinitrobenzene	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM
2,4-Dinitrotoluené	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM
HMX	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM
RDX	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM
Tetryl	ND	mg/Kg	NA	0.478		06/30/04 10:48 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 02-Jul-04

Client: WASTE-TRON INC
 Client Sample ID: 5879-167C
 Project: 5879
 Site ID: PBOW OHIO

Lab Order: 0406B28
 Lab ID: 0406B28-12A
 Collection Date: 6/24/2004
 Matrix: SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	14	wt%	NA	0.5		06/29/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	ND	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM
1,3-Dinitrobenzene	ND	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM
2,4,6-Trinitrotoluene	ND	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM
2,4-Dinitrotoluene	5.89	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM
2,6-Dinitrotoluene	6.91	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM
4-Amino-2,6-dinitrotoluene	ND	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM
HMX	ND	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM
RDX	ND	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM
Tetryl	ND	mg/Kg	NA	0.476		06/30/04 11:28 PM	TM

Qualifiers:
 ND - Not Detected at the PQL or MDL
 PQL - Practical Quantitation Limit
 MDL - Minimum Detection Limit
 NA - Not Applicable
 TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
 S - Spike Recovery outside accepted recovery limits
 E - Value above quantitation range
 B - Analyte detected in the associated Method Blank
 H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

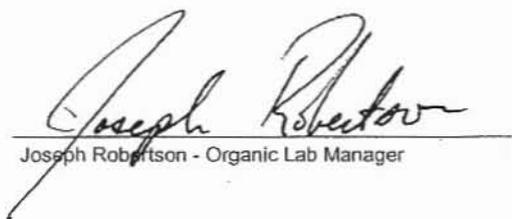
Date: 02-Jul-04

Client: WASTE-TRON INC
Project: 5879
Site ID: PBOW OHIO

Lab Order: 0406B28

Data Review

Approved:


Joseph Robertson - Organic Lab Manager

7-2-04
Date

Qualifiers: ND - Not Detected at the PQL or MDL
PQL - Practical Quantitation Limit
MDL - Minimum Detection Limit
NA - Not Applicable
TIC - Tentatively Identified Compounds

J - Analyte detected below PQL
S - Spike Recovery outside accepted recovery limits
E - Value above quantitation range
B - Analyte detected in the associated Method Blank
H - Sample extraction/analysis holding time exceeded

REI Consultants Inc.

Date: 19-Jul-04

Client:	WASTE-TRON INC	Lab Order:	0407413
Client Sample ID:	5879-181	Lab ID:	0407413-02A
Project:	5879	Collection Date:	7/8/2004
Site ID:	PBOW OHIO	Matrix:	SOIL

Analyses	Result	Units	MDL	PQL	Qual	Date Analyzed	Analyst
PERCENT MOISTURE			SM2540 B				
Percent Moisture	19	wt%	NA	0.5		07/15/04 12:00 AM	CDS
EXPLOSIVES			SW8330				
1,3,5-Trinitrobenzene	13.1	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM
1,3-Dinitrobenzene	9.50	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM
2,4,6-Trinitrotoluene	11.1	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM
2,4-Dinitrotoluene	8.71	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM
2,6-Dinitrotoluene	ND	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM
2-Amino-4,6-dinitrotoluene	ND	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM
2-Nitrotoluene	ND	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM
3-Nitrotoluene	ND	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM
4-Amino-2,6-dinitrotoluene	8.63	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM
4-Nitrotoluene	ND	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM
HMX	ND	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM
Nitrobenzene	ND	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM
RDX	15.9	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM
Tetryl	ND	mg/Kg	NA	0.498		07/15/04 6:55 PM	TM

Qualifiers:	ND - Not Detected at the PQL or MDL	J - Analyte detected below PQL
	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	MDL - Minimum Detection Limit	E - Value above quantitation range
	NA - Not Applicable	B - Analyte detected in the associated Method Blank
	TIC - Tentatively Identified Compounds	H - Sample extraction/analysis holding time exceeded

APPENDIX C

FIELD ACTIVITY AND SUMMARY SHEETS

Note the gaps in time between several of the Quality Control Reports. This reflects the fact that work at TNT B and the compost area was done in coordination with work at PRWWP (e.g. if personnel were waiting on results from confirmation sampling at PRRWP they would move to TNT B and/or the compost area and vice versa).

DACW-69-02-D-0004

013

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 1/6/03	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW 69-02-D-0004		DESCRIPTION AND LOCATION OF THE WORK: Closed out monitoring well #27	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>25</u> MIN <u>20</u> PRECIPITATION: INCHES <u>1" Snow</u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.) a. <u>WTI 3 tech + 1 SUPERVISOR</u> b. <u>Belasco 3 men + 1 rig</u> c. <u>Pinnacle 1 SSHO</u> d. _____ e. _____ f. _____ g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) <u>Plugged a grouted monitoring well #27</u>			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.)			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: <u>Tested air continuously w/ PID meter for LEL, H2S, O2%, + CO ppm.</u>			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

Place waste in 55 gallon drums
used 2 1/2 drums

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

NA

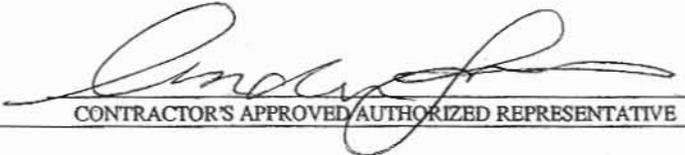
6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

NA

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.

All PPE worn as required


CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 11/7/03	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW-69-02-D-0004		DESCRIPTION AND LOCATION OF THE WORK: Closed out monitoring well #	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: <u>6F</u> MAX <u>28</u> MIN <u>16</u> PRECIPITATION: INCHES <u>0</u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.) a. <u>WTE 3 Tech 1 Supervisor</u> b. <u>Belasco 3 men 1 rig</u> c. <u>Pinnacle 1 SSHO</u> d. _____ e. _____ f. _____ g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) <p style="text-align: center;">Plugged & grouted monitoring well # Placed Back Fill near 417C site</p>			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <p style="text-align: center;">NA</p>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: <p style="text-align: center;">Tested air continuously w/ PID meter for CH_4, H_2S, O_2 % & CO ppm.</p>			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

NA

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

NA

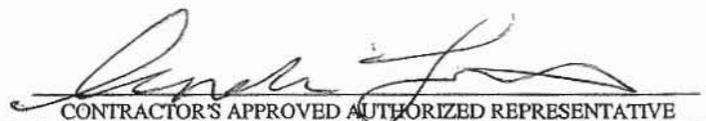
6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

NA

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.

PPE worn as required


CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 1/15/03	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DAKW 69-00-D-0004		DESCRIPTION AND LOCATION OF THE WORK: Red water	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>16</u> MIN <u>10</u> PRECIPITATION: INCHES <u>0</u> "	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.) a. <u>WTE 3 Techs 1 Supervisor</u> b. <u>Pinnacle 1 SS HO</u> c. <u>Barnes Nursery 7 Drivers</u> d. _____ e. _____ f. _____ g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) <u>Excavation of Red water site</u> <u>Back fill of 453, 417, & 462 sites</u>			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <u>NA</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: <u>TNT soil kit - see attached</u>			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

Lisa Humphreys - Do not over excavate site
Analyze South + East walls

Decon Rental equipment before returning

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

NA

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

NA

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.

NA


CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 9-10-03	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW69-03-A-0007 Work Order # 0004		DESCRIPTION AND LOCATION OF THE WORK: See Below	
Waste Tron, Inc., Aoca, WY			
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>79</u> MIN <u>60</u> PRECIPITATION: INCHES <u>0</u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.) a. <u>Company Pickup, 2 personal vehicles, 2 company semi-trucks, semi-truck</u> b. <u>trailer, 2 excavators, Rock Truck, Office Trailer, Generator</u> c. _____ d. _____ e. _____ f. _____ g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and /or subcontractors by letter in Table above.) <u>Done Maintenance on Vehicles.</u> <u>Finished clearing site of debris</u>			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <u>N/A</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: <u>N/A</u>			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

N/A

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.



CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 9-11-03	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW69-03-D-0007 Work Order #0004		DESCRIPTION AND LOCATION OF THE WORK: See Below	
Waste Tron, Inc. Poca, WY			
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>80</u> MIN <u>59</u> PRECIPITATION: INCHES <u>0</u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. <u>Company Pickup, 2 personal vehicles, 2 company semi trucks, semi-truck trailer,</u>			
b. <u>2 excavators, Rock Truck, Office Trailer, Generator</u>			
c. _____			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) <u>Started excavating pond area. Made berm around compost area w/ dirt/soil from pond excavation.</u>			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <u>NIA</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: <u>NIA</u>			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

NIA

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

NIA

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

NIA

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.



CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 9-15-03	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACWG9-03-D-0007 Work Order # 0004		DESCRIPTION AND LOCATION OF THE WORK: See Below	
WasteTron, Inc., Pocono, WV			
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>74</u> MIN <u>68</u> PRECIPITATION: INCHES <u>0</u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. <u>Company Pickup, Personal Vehicle, Company Semi-Truck, Semi-Truck Trailer</u>			
b. <u>2 excavators, Rock Truck, Office Trailer, Generator, Wheel loader, Dozer,</u>			
c. <u>Roller, Soil Screener</u>			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) <u>Finished clearing + cleaning debris from Composting area. Finished pond area.</u>			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <u>N/A</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: <u>N/A</u>			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

NIA

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

NIA

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

NIA

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.


CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 9-19-03	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW69-03-D-0007 Work Order #0007		DESCRIPTION AND LOCATION OF THE WORK: See Below	
Waste Iron, Inc., Poca, WV			
WEATHER CLASSIFICATION:		CLASSIFICATION:	
CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts.		CLASS C	
CLASS B Weather occurred during this shift that caused a complete stoppage of all work.		TEMPERATURE:	
CLASS C Weather occurred during this shift that caused a partial stoppage of work.		MAX 69 MIN 64	
CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather.		PRECIPITATION:	
CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner.		INCHES 1 1/2"	
OTHER Explain.			
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. Company pickup, 2 personal vehicles, Company Semi-Truck, Semi-Truck Trailer			
b. 2 excavators, Rock Truck, Office Trailer, Generator, Wheel Loader, Dozer,			
c. Roller, Soil Screener, 2 frac tanks, Sump Pump (Goodwin 4" Pump)			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) Pumped water from pond that had filled over night from the rainfall. Erected safety fences around front of composting area.			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.)			
N/A			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS:			
N/A			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

N/A

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.



CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 10-9-03	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW 9-03-D-0007 Work Order #0004		DESCRIPTION AND LOCATION OF THE WORK: See Below	
WasteTron, Inc., Poca, WV			
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>78</u> MIN <u>49</u> PRECIPITATION: INCHES <u>0</u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. 2 Company Pickups, 2 personal vehicles, 1 company Semi-Truck, Semi-Truck Trailer			
b. 3 excavators, back truck, office trailer, 2 generators, wheel loader, roller, dozer, soil screener			
c. 2 frac tanks, Godwin 4" Pump, Power Washer, Sump Pump, Composter, Trailer			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and for subcontractors by letter in Table above.) Hauled Red Water stockpile. Didn't screen the soil due to soil being too wet, per USACE. Total Loads from Red Water = 15. Screened & hauled soil from stockpile to composting pad. Total Loads for today = 18. Moved screener & loader bucket to composting pad to decon tomorrow. Meyers Hatchery delivered 2 loads of straw, 45 bales each load.			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.)			
N/A			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS:			
N/A			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions; acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

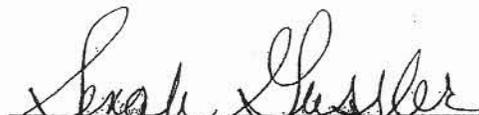
N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

N/A

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.



CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 6/14/04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW69-03-D-007 WTI		DESCRIPTION AND LOCATION OF THE WORK: PBOW SANDUSKY OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>95</u> MIN <u>85</u> PRECIPITATION: INCHES <u>0 1/2</u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.) a. <u>2 men, 1 pickup, office Trailer, generator, rest room,</u> b. <u>Hand tools, VACTruck, Excavator, Decon Kit, EMSYS TNT</u> c. <u>Frack TANK 6" Godwin pump</u> d. _____ e. _____ f. _____ g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and for subcontractors by letter in Table above.) <u>Pumped 40,000 GAL of water From compost pond to Frack TANK. And HAULED 10,000 GAL of water to pond. COVER STOCKS PILES. DECONED EXCAVATOR</u>			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <u>I</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: <u>AS IMPLANS</u>			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions; acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

IDENTIFYING CONSTRUCTION HAZARDS

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.

Ronald Evans

CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 6/15/04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW 69-03-P-007 WTI		DESCRIPTION AND LOCATION OF THE WORK: P80W Sandusky OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>75</u> MIN <u>05</u> PRECIPITATION: INCHES <u>0</u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.) a. 2 men 1 pickup, office TRAILER, GENERATOR, REST ROOM, HAND TOOLS, UAC TRUCK. b. EXHAUSTER, DECON KIT, ENSURE TEST KIT, FRACK TANK, 6" PUMP. c. _____ d. _____ e. _____ f. _____ g. Rick Zimmer man 12 hrs (Franklin)			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) Pumped 30,000 gal of water to FRACK TANKS Hauled 30,000 gal of water to West Red water pond from FRACK TANK moved EXCAVATOR Took 4 SAMPLES of compost site			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) I			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: AST in plans (Full TCIP, FLASH POINT, PH, BTEX PAINT Filter, TPH - Dro, Gro, Oro,			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions; acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

THEREIGHT Boot FOR THE JOB

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.

Ronald Evans

CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 6/16/04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACEW69-03-D007 WTI		DESCRIPTION AND LOCATION OF THE WORK: PBOW Sandusky OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>67</u> MIN <u>76</u> PRECIPITATION: INCHES <u>0</u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. <u>2 MEN, PICKUP, OFFICE TRAILER, GENERATOR, REST ROOM, HAND TOOLS, VAC TRUCK</u>			
b. <u>EXCATATOR, DECON KIT, ECHOE TEST KIT, FRACK TANK, G PUMP.</u>			
c. _____			
d. _____			
e. _____			
f. _____			
g. <u>RECK ZIMMERMAN</u> <u>10 HRS</u> <u>(FRANKLIN)</u>			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.)			
TOOK 5 SAMPLES FROM PITS AND DUG 7 PITS IN RED WATER AREA RAN 7 TEST KITS. RECK ZIMMERMAN HAULED WATER FROM COMPOST SITE TO WEST AREA RED WATER POND, 30,000 GAL PACK UP WATER SAMPLES READY TO GO TO LAB. Put pack up COMPOST SITE SEDIMENT POUND SAMPLE IN JARS TO SENT TO LAB.			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.)			
I			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS:			
AS IN PLAN			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

HORSEPLAY

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.

Ronald Erav

CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 6-17-04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW 69-03-D-0007 WTI		DESCRIPTION AND LOCATION OF THE WORK: P30W SANDUSKY OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>65</u> MIN <u>70</u> PRECIPITATION: INCHES <u>0</u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. <u>2 men pickup, Excavator, 2 Frac Tanks, 6" Godwin</u>			
b. <u>pump office trailer, Handtools, Generator, Sample Kits</u>			
c. <u>TNT ENSYS Kit Rest Rooms, Decon Kit</u>			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.)			
Worked at PRRWP Dug 3 Test Pits and ran field TNT ENSYS got 2 samples ready to go to Reic. Traveled home			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.)			
I			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS:			
AS IN PLANS			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions; acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

ALL PERSONNEL WORE PPE

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.


CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 6/21/04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DAC W69-03D-0007 WTZ		DESCRIPTION AND LOCATION OF THE WORK: P.B.O.W Sandusky OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>35</u> MIN <u>65</u> PRECIPITATION: INCHES <u>0</u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. <u>2 MEN, pickup, EXCAVATOR, 2 TRACK tanks, 6: pump, office trailer, hand tools</u>			
b. <u>GENERATOR, sample kits, Tot, Easy kit, Rustum, PEAUN KIT</u>			
c. _____			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) TRAVELED TO PBOW (SANDUSKY OH) 5 HRS. Dig 5 PITS took sample from pits RUN 7 TNT TEST ENG KITS FROM RED WATER AREA			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <u>I</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: <u>AS IN PLANS</u>			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions; acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

PPE

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.

Ronald Ware
CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 6/22/04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DAC W69-03-D-0007 WTI		DESCRIPTION AND LOCATION OF THE WORK: P.B.O.W Sandusky OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>65</u> MIN <u>70</u> PRECIPITATION: INCHES <u>0</u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.) a. <u>2 MEN, EXCAVATOR, VAC TRUCK, 2 FRACK FRACK TANK, 6' PUMP, 2 REST ROOM,</u> b. <u>HAND TOOLS, INT. TEST KITS, DECON KIT, 1 PICKUP, OFFICE TRAILER, GENERATOR GENERATOR</u> c. _____ d. _____ e. _____ f. _____ g. <u>2 men (MOUNTAIN STATE)</u>			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) <u>Dug 7 pit & RAN Field Test cleared S.E. on Red water Had surveyors to survey PIT 412B & C, 456 B, Northeast Stockpiles Nail House</u>			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <u>I</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: <u>As In plans</u>			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions; acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

How to LIFT SAFELY and ~~to~~ PPE ~~wear~~

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.

Ronald Lewis

CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 6-23-04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW 69-03-D-0007 WTT		DESCRIPTION AND LOCATION OF THE WORK: P/BOW SANDUSKY OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>80</u> MIN <u>55</u> PRECIPITATION: INCHES <u> </u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. <u>2 men, Pickup office Trailer, Generator Rest Rooms,</u>			
b. <u>Hand Tools FRAC TANKS 6" godwin pump Excavator ENSYS TWT Kit</u>			
c. <u>UAC Truck Decon Kit Sample Kits</u>			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and for subcontractors by letter in Table above.)			
worked at Redwater to Dug 5 Pits ran 6 Field samples meet with Joe meare AND Steve TALKED About BLACKTOP meet with Edward EBNER with Erie BLACKTOP Got Sample Ready to SHIP			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.)			
I			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS:			
AS IN PLANS			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

All Personnel wore PPE

/

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.

Palmy Relys

CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 6-24-04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW 69-03-D-0007 WTI		DESCRIPTION AND LOCATION OF THE WORK: P/BOW SANDUSKY OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX ___ MIN ___ PRECIPITATION: INCHES _____	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. <u>2 men PICKUP office Trailer, Generator Rest Rooms,</u>			
b. <u>HAND TOOLS FracTANKS 6" godwin pump Excavator</u>			
c. <u>ENSYS TNT Kit VAC TRUCK Decon Kit Sample Kit</u>			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) Dug 7 PITS Took 7 SAMPLES RAN Field TEST got Ready To SHIP To Re:c			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <u>I</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: AS IN PLANS			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

All personnel wore PPE

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.


CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 6-28-09	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW 69-03-D-0007 WTI		DESCRIPTION AND LOCATION OF THE WORK: PIBOW SANDUSKY OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS _____ TEMPERATURE: MAX ___ MIN ___ PRECIPITATION: INCHES _____	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. 2 men pickup office trailer generator RestRoom			
b. Handtools Frac tanks 6" galwin pump Excavator			
c. ENSYS TNT TEST Kit. VAC TRUCK DCCEN Kit Sample K: 5			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and for subcontractors by letter in Table above.)			
checked pond at compost sit Dug 4 PITS AT PRRWP AND RAN 4 Field TEST (TNT ENSYS)			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.)			
I			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS:			
AS IN PLANS			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

All personnel wore
PPE

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.


CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 6-29-09	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW 69-03-D-0007 WTI		DESCRIPTION AND LOCATION OF THE WORK: P130W SANDUSKY OH.	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>80</u> MIN <u>55</u> PRECIPITATION: INCHES _____	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. <u>2 men pickup office trailer, generator, rest rooms</u>			
b. <u>HAND TOOLS, FRAC TANKS, 6" godwin pump, EXCAVATOR</u>			
c. <u>EMSYS TEST KIT, UAC TRUCK DECON KIT, SAMPLE KITS</u>			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) <u>CHECKED WATER IN POND AT COMPOST SITE</u> <u>DUG 8 PITS AT RRUP AND RAN 7 TINTSOIL TEST</u>			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <u>I</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: <u>AS IN PLANS</u>			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

All personnel wore PPE

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.



CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 6-30-04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW 69-03-D-0007 WTI		DESCRIPTION AND LOCATION OF THE WORK: P30W Sandusky OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>80</u> MIN <u>57</u> PRECIPITATION: INCHES _____	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. <u>2 men, pickup, office Trailer, Generator, Rest Rooms</u>			
b. <u>Hand tools, FRAC TANKS, 6' Godwin pump, Excavator,</u>			
c. <u>ENSYS Test Kits, UAC Truck, Decon kit, Sample kits</u>			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and for subcontractors by letter in Table above.) <u>Dug 14 pit at Red water RAN 8 Field test (TNT ENSYS) got 9 samples ready to ship to Reic</u>			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <u>I</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: <u>AS IN PLANS</u>			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions; acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

All personnel wore PPE

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.



CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 7-1-04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW-69-03-D-000?		DESCRIPTION AND LOCATION OF THE WORK: P130W Sandusky OH	
WTI			
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>80</u> MIN <u>60</u> PRECIPITATION: INCHES _____	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. <u>2 men pickup truck, office Trailer, Generator, Rest Rooms</u>			
b. <u>Hand Tools, Frac Tanks, 6" Godwin pump, Excavator,</u>			
c. <u>ENSYE TEST Kits, UAC Truck Decon kit, Sample kits</u>			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and for subcontractors by letter in Table above.)			
Dug 5 holes At Redwater ran 11 Field Test got samples Ready To ship To Re:c			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.)			
<u>I</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS:			
AS IN PLANS			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions; acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

Had safety meeting on PPE

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.



CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 7-6-04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW 69-03-D-0007 WTI		DESCRIPTION AND LOCATION OF THE WORK: P30 W Sandusky OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX ___ MIN ___ PRECIPITATION: INCHES _____	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.) a. <u>2 men, 1 Pickup, Excavator, Generator, 2 Frac Tanks</u> b. <u>6" galwin pump, 2 rest room, office Trailer, Sample kit</u> c. <u>Ensys Test Kit, Decon Kit</u> d. _____ e. _____ f. _____ g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) Traveled to Job site Dug 11 pits AND ran 11 Field Test checked compast site. Paved			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <u>I</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: AS IN PLANS			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

All personnel
were PPE

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.


CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 7-7-01	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR D4CW 69-03-D-0007 WTI		DESCRIPTION AND LOCATION OF THE WORK: PIBOW Sandusky	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS _____	TEMPERATURE: MAX 70 MIN 69
		PRECIPITATION: INCHES _____	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.) a. 2 men, office Trailer Generator, Pickup, 2 Rest Rooms b. excavator, TNT Field Kit, Decon Kit, Sample kits c. Frac Tanks 6' godwin pump d. _____ e. _____ f. _____ g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) Dug 14 Pits AND ran 14 Field test, (Red water)			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) I			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: AS IN PLANS			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions; acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

Talked about SNAKE BITES

All personnel wore PPE

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.



CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 7-8-04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR PACW 69-03-D-007 WTI		DESCRIPTION AND LOCATION OF THE WORK: P30W SANDUSKY OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>85</u> MIN <u>60</u> PRECIPITATION: INCHES <u> </u>	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. <u>2 MEN, pickup, EXCAVATOR SAMPLE KIT GENERATOR</u>			
b. <u>2 FRAC TANKS, 6" GODWIN PUMP DECON KIT</u>			
c. <u>TNT ENSYS Field Test Kit 2 test rooms office trailer</u>			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and for subcontractors by letter in Table above.) Dug 4 PITS AT Redwater RAW 4 Field test got 19 samples Ready For Re:c. Deconed EXCAVATOR AND moved BACK to office trailer got Drums Ready For ETC.			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <u>I</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: <u>AS IN PLANS</u>			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

All personnel wear PPE

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.


CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 7/28/04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DAC-W69-03-0007 WTI		DESCRIPTION AND LOCATION OF THE WORK: PBOW SANDUSKY OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u>	TEMPERATURE: MAX <u>75</u> MIN <u>65</u>
		PRECIPITATION: INCHES _____	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. 2 MEN, PICK UP TRUCK, OFF-ICE TRAILER, HAND TOOLS, SAMPLE KITS, TNT FIELD KITS			
b. DECONTRYS, RESTROOM, VAC TRUCK, EXCAVATOR, LOADER, 2 FRACK TANKS & PUMP			
c. GENERATOR			
d. _____			
e. _____			
f. _____			
g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and for subcontractors by letter in Table above.) BACKFILL PITS 452-31 LOADS, 463-7 LOADS. BARN HAUL A TOTAL OF 98 LOADS. RECK ZIMMERMAN FROM FRANKLINS HAUL WATER FROM 463 PIT. TOTAL OF 2 1/2 LOADS OF WATER TO POND AND MOVED EXCAVATOR TO RED WATER			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) I			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: AS IN PLANS			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions; acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

ALL PERSONNEL WORE PPE

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.

Ronald Ernie

CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 7/29/04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DAC-W69-03-0007 WTI		DESCRIPTION AND LOCATION OF THE WORK: PBOW SANDOSKY OFF	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.		CLASSIFICATION: CLASS <u>A</u>	TEMPERATURE: MAX <u>75</u> MIN <u>70</u>
		PRECIPITATION: INCHES _____	
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.) a. 2 MEN, PICK UP TRUCK, OFFICE TRAYER, HAND TOOLS, SAMPLE KITS, TNT FIELD KITS b. RECORDER, 7 RESTROOM, JACK TRUCK, EXCAVATOR, LOADER, 2 BACKTANKS, PUMP c. GENERATOR d. _____ e. _____ f. _____ g. _____			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and for subcontractors by letter in Table above.) BACK FILL PIT 463 22 LOADS BARNES HAUL TOTAL OF 22 LOADS DUG 7 PITS AT RPWP. RUN 7 TNT FIELD TEST. GOT 10 SAMPLES READY FOR LAB			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) I			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: AS IN PLANS			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

ALL PERSONNEL WORE PPE

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.

Ronald Evans

CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) (ER 1180-1-6)		DATE: 9-14-04	REPORT NO.
CONTRACT NUMBER AND NAME OF CONTRACTOR DACW 69-03-D-0007 WTI		DESCRIPTION AND LOCATION OF THE WORK: PBOW SANDUSKY OH	
WEATHER CLASSIFICATION: CLASS A No interruptions of any kind from weather conditions occurring on this or previous shifts. CLASS B Weather occurred during this shift that caused a complete stoppage of all work. CLASS C Weather occurred during this shift that caused a partial stoppage of work. CLASS D Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather. CLASS E Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner. OTHER Explain.			CLASSIFICATION: CLASS <u>A</u> TEMPERATURE: MAX <u>80</u> MIN <u>50</u> PRECIPITATION: INCHES <u> </u>
CONTRACTOR/SUBCONTRACTORS AND AREA OF RESPONSIBILITY FOR WORK PERFORMED TODAY: (Attach list of items of equipment either idle or working as appropriate.)			
a. <u>2 men pickup truck office trailer generator Rest Rooms,</u>			
b. <u>Decon kit TNT TEST kit sample kit wheel loader</u>			
c. <u>EXCAVATOR skid steer with Broom Frac TANK godwin pump</u>			
d. <u>HAND TOOLS</u>			
e. <u> </u>			
f. <u>BARNES = 3 Dump Trucks</u>			
g. <u> </u>			
1. WORK PERFORMED TODAY: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above.) <u>worked on Berms around compost pad HAULED</u> <u>NON HAZ soil TO HANDLING scraped 6 INCHES of soil</u> <u>From Red water & Trammings area stockp:1 area got Ready</u> <u>TO SAMPLE</u>			
2. TYPE AND RESULTS OF INSPECTION: (Indicate whether: P-Preparatory, I-Initial, or F-Follow-up and include satisfactory work completed or deficiencies with action to be taken.) <u>I</u>			
3. TESTS REQUIRED BY PLANS AND/OR SPECIFICATIONS PERFORMED AND RESULTS OF TESTS: <u>AS IN PLANS</u>			

4. VERBAL INSTRUCTIONS RECEIVED: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

N/A

5. REMARKS: (Cover any conflicts in plans, specifications or instructions: acceptability of incoming materials; offsite surveillance activities; progress of work, delays, causes and extent thereof; days of no work with reasons for same.)

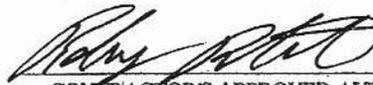
N/A

6. SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective actions taken.)

All personnel wore PPE

INSPECTOR

CONTRACTOR'S CERTIFICATION: I certify that the above report is complete and correct and that all material and equipment used, work performed and tests conducted during this reporting period were in strict compliance with the contract plans and specifications except as noted above.



CONTRACTOR'S APPROVED AUTHORIZED REPRESENTATIVE

APPENDIX D
WASTE MANIFESTS

87

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on 6 1/2 (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. OH3800015379	Manifest Document No. 04007	2. Page 1 of 1
3. Generator's Name and Mailing Address NASA Plum Brook Station 6100 Columbus Ave. Sandusky, OH 44870				
4. Generator's Phone (419) 621-3234				
5. Transporter 1 Company Name Barnes Nursery	6. US EPA ID Number	A. State Transporter's ID		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter 1 Phone		
9. Designated Facility Name and Site Address Erie County DOES 554 River Road Huron, OH 44839		C. State Transporter's ID		
		D. Transporter 2 Phone		
		E. State Facility's ID		
		F. Facility's Phone 419-433-7303		
11. WASTE DESCRIPTION		12. Containers	13. Total Quantity	14. Unit Wt/Vol.
a. Non-Hazardous Nitroaromatic Contaminated Soil		No. 01 Type DT	0025	T
b.				
c.				
d.				
G. Additional Descriptions for Materials Listed Above Approval # WT PJ# 5879		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				

NON-HAZARDOUS STE GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name Robert F. Kallier Jr	Signature <i>Robert F. Kallier Jr</i>	Date Month Day Year 1 20 04
---	--	--

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name Dave Price	Signature <i>Dave Price</i>	Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date Month Day Year

19. Discrepancy Indication Space
13.29 Tons

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.		
Printed/Typed Name Eric Johnson	Signature <i>Eric Johnson</i>	Date Month Day Year 1 20 04

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. OH 38 00 015379	Manifest Document No. 04008	2. Page 1 of 1
3. Generator's Name and Mailing Address NASA Plum Brook Station 6100 Columbus Ave. Sandusky, OH 44870			
4. Generator's Phone (419 621-3234)			
5. Transporter 1 Company Name Barnes Nursery	6. US EPA ID Number	A. State Transporter's ID	
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter 1 Phone	
9. Designated Facility Name and Site Address Erie County DOES 554 River Road Huron, OH 44839		C. State Transporter's ID	
		D. Transporter 2 Phone	
		E. State Facility's ID	
		F. Facility's Phone 419-433-7303	

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit WL/Vol.
	No.	Type		
a. Non-Hazardous Nitroaromatic Contaminated Soil	01	DT	0025	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above Approval # WT PJ# 5879	H. Handling Codes for Wastes Listed Above
15. Special Handling Instructions and Additional Information	

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name Robert F. Lalloo Jr.	Signature <i>Robert F. Lalloo Jr.</i>	Date 1/20/04
17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name Kim Kuhl Jr.	Signature <i>Kim Kuhl Jr.</i>	Date 1/20/04
18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date
19. Discrepancy Indication Space 15.06 TONS		
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.		
Printed/Typed Name Eric Johnson	Signature <i>Eric Johnson</i>	Date 1/20/04

NON-HAZARDOUS SITE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on ellipse (12 pitch) typewriter)

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

OH38 00015379

Manifest Document No. **04009**

2. Page **1**
of **1**

3. Generator's Name and Mailing Address
**NASA Plum Brook Station
6100 Columbus Ave.
Sandusky, OH 44870**

4. Generator's Phone (**419 621-3234**

5. Transporter 1 Company Name

Green Nursery

6. US EPA ID Number

8. US EPA ID Number

7. Transporter 2 Company Name

9. Designated Facility Name and Site Address

**Erie County DOES
554 River Road
Huron, OH 44839**

10. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

C. State Transporter's ID

D. Transporter 2 Phone

E. State Facility's ID

F. Facility's Phone

419-433-7303

11. WASTE DESCRIPTION

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt./Vol.

a. **Non-Hazardous Nitroaromatic
Contaminated Soil**

01

DT

0025

T

-G. Additional Descriptions for Materials Listed Above

Approval #
WT PJ# 5879

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name

Robert F. Lalker Jr.

Signature

Robert F. Lalker Jr.

Date

Month Day Year
1 | 20 | 04

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Robert P. Malone Jr.

Signature

Robert P. Malone Jr.

Date

Month Day Year
1 | 20 | 04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

12.81 TONS

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name

Eric Johnson

Signature

Eric Johnson

Date

Month Day Year
1 | 20 | 04

NON-HAZARDOUS WASTE MANIFEST

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. OH 3800015379	Manifest Document No. 04010	2. Page 1 of 1
3. Generator Name and Mailing Address NASA Plum Brook Station 6100 Columbus Ave. Sandusky, OH 44870			
4. Generator's Phone 419 621-3234	6. US EPA ID Number	A. State Transporter's ID	
5. Transporter 1 Company Name Barnes Nursery		B. Transporter 1 Phone	
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID	
		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Erie County DOES 554 River Road Huron, OH 44839	10. US EPA ID Number	E. State Facility's ID	
		F. Facility's Phone 419-433-7303	
11. WASTE DESCRIPTION		12. Containers	13. Total Quantity
		No.	14. Unit Wt./Vol.
a. Non-Hazardous Nitroaromatic Contaminated Soil		01	DT
b.			0025
c.			T
d.			
g. Additional Descriptions for Materials Listed Above Approval # WT PJ# 5879		h. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information			

NON-HAZARDOUS WASTE GENERATOR SITE

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name Robert F. Lallier Jr	Signature <i>Robert F. Lallier Jr</i>	Date Month Day Year 1 20 04
17. Transporter 1 Acknowledgement of Receipt of Materials	Signature <i>Kenneth Stankoff</i>	Date Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials	Signature	Date
18. Discrepancy Indication Space 13.46 TONS		
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.		
Printed/Typed Name Eric Schusch	Signature <i>Eric Schusch</i>	Date Month Day Year 1 20 04

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. OH 38 000 15379		Manifest Document No. 04011	2. Page 1 of 1
3. Generator's Name and Mailing Address NASA Plum Brook Station 6100 Columbus Ave. Sandusky, OH 44870					
4. Generator's Phone (419) 621-3234					
5. Transporter 1 Company Name Barnes Nursery		6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address Erie County DOES 554 River Road Huron, OH 44839		10. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 419-433-7303	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Hazardous Nitroaromatic Contaminated Soil			No. 01 Type DT	0025	T
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above Approval # WT PJ# 5879			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Robert F. Walker Jr.				Signature <i>Robert F. Walker Jr.</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date 1/20/04	
Printed/Typed Name Brian Kleckner				Signature <i>Brian Kleckner</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
19. Discrepancy Indication Space 21.21 TONS					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.				Date	
Printed/Typed Name Eric Johnson				Signature <i>Eric Johnson</i>	
				Date 1/20/04	

NON-HAZARDOUS WASTE GENERATOR SITE

NON-HAZARDOUS WASTE MANIFEST

Print or type (Form designed for use on 12 pitch typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
OH 38 000 15379

Manifest Document No. **04012**

2. Page **1** of **1**

3. Generator's Name and Mailing Address
**NASA Plum Brook Station
6100 Columbus Ave.
Sandusky, OH 44870**

4. Generator's Phone (419) **621-3234**

6. Transporter 1 Company Name

Davis Nursery

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

**Erie County DOES
554 River Road
Huron, OH 44839**

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone

419-433-7303

11. WASTE DESCRIPTION

12. Containers

No. Type

13. Total Quantity

14. Unit Wt/Vol

a. **Non-Hazardous Nitroaromatic Contaminated Soil**

01

DT

0025

T

G. Additional Descriptions for Materials Listed Above

Approval #
WT PJ# 5879

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name
Robert F. Haller Jr.

Signature
Robert F. Haller Jr.

Date
Month Day Year
1 20 04

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
DAVID MAY

Signature
David May

Date
Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date
Month Day Year

19. Discrepancy Indication Space

14.00 TONS

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name
Erie Johnson

Signature
Erie Johnson

Date
Month Day Year
1 20 04

NON-HAZARDOUS WASTE MANIFEST

#81

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
OH3800015379

Manifest Document No. **04013**

2. Page 1 of 1

3. Generator's Name and Mailing Address
**NASA Plum Brook Station
6100 Columbus Ave.
Sandusky, OH 44870**

4. Generator's Phone (419) **621-3234**

5. Transporter 1 Company Name
Genes Nursery

6. US EPA ID Number

A. State Transporter's ID

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter 1 Phone

9. Designated Facility Name and Site Address
**Erie County DOES
554 River Road
Huron, OH 44839**

10. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

E. State Facility's ID

F. Facility's Phone
419-433-7303

11. WASTE DESCRIPTION

12. Containers
No. Type

13. Total Quantity

14. Unit Wt./Vol.

a. **Non-Hazardous Nitroaromatic Contaminated Soil**

01 DT

0025

T

b.

c.

d.

G. Additional Descriptions for Materials Listed Above

**Approval #
WT PJ# 5879**

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name
Robert F. Lally Jr

Signature
Robert F. Lally Jr

Date
1/20/04

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Gary Price

Signature
Gary Price

Date
1/20/04

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name

Signature

Date

19. Discrepancy Indication Space
16.32 TONS

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name
ERIC JOHNSON

Signature
Eric Johnson

Date
1/20/04

NON-HAZARDOUS WASTE MANIFEST

#93

NON-HAZARDOUS WASTE MANIFEST

48117

Please print or type (Form designed for use on 8 1/2" (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **OH3800015379**

Manifest Document No. **04014**

2. Page 1 of 1

3. Generator's Name and Mailing Address
**NASA Plum Brook Station
6100 Columbus Ave.
Sandusky, OH 44870**

4. Generator's Phone (419) **621-3234**

5. Transporter 1 Company Name

Burns Nursery

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

**Erie County DOES
554 River Road
Huron, OH 44839**

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone

419-433-7303

11. WASTE DESCRIPTION

a. **Non-Hazardous Nitroaromatic Contaminated Soil**

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt/Vol.

01

DT

0025

T

G. Additional Descriptions for Materials Listed Above

Approval #
WT PJ# 5879

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name

Robert F. Lallier Jr

Signature

Robert F. Lallier Jr

Date

Month Day Year
1 20 04

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Kam Kuhl Jr

Signature

Kam Kuhl Jr

Date

Month Day Year
1 20 04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

17.86 TONS

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name

Eric Johnson

Signature

Eric Johnson

Date

Month Day Year
1 20 04

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on 8 1/2" (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. OH 3800015379		Manifest Document No. 04015	2. Page 1 of 1
3. Generator's Name and Mailing Address NASA Plum Brook Station 6100 Columbus Ave. Sandusky, OH 44870					
4. Generator's Phone (419) 621-3234					
5. Transporter 1 Company Name Barnes Nursery		6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address Erie County DOES 554 River Road Huron, OH 44839		10. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 419-433-7303	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit WL/Vol.
a. Non-Hazardous Nitroaromatic Contaminated Soil			No. 01	Type DT	0025
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above Approval # WT PJ# 5879			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information					

NON-HAZARDOUS WASTE GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name Robert F. Lallier Jr.	Signature <i>Robert F. Lallier Jr.</i>	Date Month Day Year 1 20 04
--	---	--

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name Robert P. Malone Jr.	Signature <i>Robert P. Malone Jr.</i>	Date Month Day Year 1 20 04

18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date Month Day Year

19. Discrepancy Indication Space
13.13 Tons

20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name Eric Johnson	Signature <i>Eric Johnson</i>	Date Month Day Year 1 20 04
---	----------------------------------	--

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on 8 1/2" (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. OH 3800015379		Manifest Document No. 04016	2. Page 1 of 1
3. Generator's Name and Mailing Address NASA Plum Brook Station 6100 Columbus Ave. Sandusky, OH 44870					
4. Generator's Phone (419) 621-3234					
5. Transporter 1 Company Name Burnes Morsang		6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address Erie County DOES 554 River Road Huron, OH 44839		10. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 419-433-7303	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Hazardous Nitroaromatic Contaminated Soil			No. Type		
			01 DT	0025	T
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above Approval # WT PJ# 5879			H. Handling Codes for Wastes Listed Above		
16. Special Handling Instructions and Additional Information					

NON-HAZARDOUS STE GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name Robert F. Lallier Jr.	Signature <i>Robert F. Lallier Jr.</i>	Date Month Day Year 1 20 04
--	---	--

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name Kevin J. Stuebel	Signature <i>Kevin J. Stuebel</i>	Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date Month Day Year

19. Discrepancy Indication Space
13.93 TONS

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.		
Printed/Typed Name Eric Johnson	Signature <i>Eric Johnson</i>	Date Month Day Year 1 20 04

492

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
OH 38000 15379

Manifest Document No: **04017**

2. Page **1** of **1**

3. Generator's Name and Mailing Address
**NASA Plum Brook Station
6100 Columbus Ave.
Sandusky, OH 44870**

4. Generator's Phone: **(419) 621-3234**

5. Transporter 1 Company Name
Barnes Nursery

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

**Erie County DOES
554 River Road
Huron, OH 44839**

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone

419-433-7303

11. WASTE DESCRIPTION

12. Containers

13. Total Quantity

14. Unit WL/Vol.

a. **Non-Hazardous Nitroaromatic Contaminated Soil**

No. **01**

Type **DT**

0025

T

G. Additional Descriptions for Materials Listed Above

Approval #
WT PJ# 5879

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name
Robert F. Lallier Jr

Signature
Robert F. Lallier Jr

Date
Month Day Year
1/20/04

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date
Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date
Month Day Year

19. Discrepancy/Indication Space

23.08 TONS

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name
Eric Johnson

Signature
Eric Johnson

Date
Month Day Year
1/20/04

NON-HAZARDOUS WASTE GENERATOR SITE FACILITY

81

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
OH 3800015379

Manifest Document No. **04019**

2. Page 1 of 1

3. Generator's Name and Mailing Address
**NASA Plum Brook Station
6100 Columbus Ave.
Sandusky, OH 44870**

4. Generator's Phone (419) **621-3234**

5. Transporter 1 Company Name
Barnes Nursery

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

**Erie County DOES
554 River Road
Huron, OH 44839**

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone
419-433-7303

11. WASTE DESCRIPTION

12. Containers

13. Total Quantity

14. Unit: WL/Vol.

a. **Non-Hazardous Nitroaromatic Contaminated Soil**

No. **01**

Type **DT**

0025

T

b.

c.

d.

G. Additional Descriptions for Materials Listed Above

Approval #
WT PJ# 5879

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name
Robert F. Lallier Jr

Signature
Robert F. Lallier Jr

Date
Month Day Year
1 20 04

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date
Month Day Year
1 20 04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date
Month Day Year

19. Discrepancy Indication Space

14.18 TONS

20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name
Eric Johnson

Signature
Eric Johnson

Date
Month Day Year
1 20 04

NON-HAZARDOUS WASTE GENERATOR SITE

TRANSPORTER FACILITY

93

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. OH 38000 15379		Manifest Document No. 04020	2. Page 1 of 1
3. Generator's Name and Mailing Address NASA Plum Brook Station 6100 Columbus Ave. Sandusky, OH 44870					
4. Generator's Phone (419) 621-3234					
6. Transporter 1 Company Name Barnes Nursery		6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address Erie County DOES 554 River Road Huron, OH 44839		10. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 419-433-7303	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit WL/Vol.
a. Non-Hazardous Nitroaromatic Contaminated Soil			No. 01 Type DT	0025	T
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above Approval # WT PJ# 5879			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Robert F. Lallier Jr		Signature <i>Robert F. Lallier Jr</i>		Date 1/20/04	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Kam Kuhl Jr		Signature <i>Kam Kuhl Jr</i>		Date 1/20/04	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date	
19. Discrepancy Indication Space 15.55 TONS					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					Date
Signature					

NON-HAZARDOUS WASTE GENERATOR

00

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. OH 3800015379		Manifest Document No. 04021	2. Page 1 of 1
3. Generator's Name and Mailing Address NASA Plum Brook Station 6100 Columbus Ave. Sandusky, OH 44870					
4. Generator's Phone (419) 621-3234					
5. Transporter 1 Company Name Barnes Nursery		6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address Erie County DOES 554 River Road Huron, OH 44839		10. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 419-433-7303	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit WL/Vol.
a. Non-Hazardous Nitroaromatic Contaminated Soil			No. 01 Type DT	0025	T
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above Approval # WT PJ# 5879			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information					
19. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Robert F. Lallier Jr.		Signature <i>Robert F. Lallier Jr.</i>		Date 1/20/04	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Robert P. Malone Jr.		Signature <i>Robert P. Malone Jr.</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
19. Discrepancy Indication Space		11.78 TONS			
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name Eric Johnson		Signature <i>Eric Johnson</i>		Date 1/20/04	

NON-HAZARDOUS WASTE GENERATOR FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. OH3800015379		Manifest Document No. 04022	2. Page 1 of 1
3. Generator's Name and Mailing Address NASA Plum Brook Station 6100 Columbus Ave. Sandusky, OH 44870					
4. Generator's Phone (419) 621-3234					
5. Transporter 1 Company Name Barnes Nursery		6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address Erie County DOES 554 River Road Huron, OH 44839		10. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 419-433-7303	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Hazardous Nitroaromatic Contaminated Soil			No. 01	Type DT	0025
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above Approval # WT PJ# 5879			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information					

NON-HAZARDOUS WASTE GENERATOR SITE

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name Robert F. Haller Jr		Signature <i>Robert F. Haller Jr</i>	Date Month Day Year 1 20 04
17. Transporter 1 Acknowledgement of Receipt of Materials			
Printed/Typed Name Kevin J. Stuchlik		Signature <i>Kevin J. Stuchlik</i>	Date Month Day Year 1 20 04
18. Transporter 2 Acknowledgement of Receipt of Materials			
Printed/Typed Name		Signature	Date Month Day Year
19. Discrepancy Indication Space 13.22 TONS			
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.			Date
Printed/Typed Name Eric Johnson		Signature <i>Eric Johnson</i>	Month Day Year 1 20 04

TRANSPORTER FACILITY

#70

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on site (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. OH 2800015379	Manifest Document No. 04023	2. Page 1 of 1
3. Generator's Name and Mailing Address NASA Plum Brook Station 6100 Columbus Ave. Sandusky, OH 44870				
4. Generator's Phone (419) 621-3234				
5. Transporter 1 Company Name James Nursery	6. US EPA ID Number	A. State Transporter's ID		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter 1 Phone		
9. Designated Facility Name and Site Address Erie County DOES 554 River Road Huron, OH 44839		C. State Transporter's ID		
		D. Transporter 2 Phone		
		E. State Facility's ID		
		F. Facility's Phone 419-433-7303		

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit WL/Vol.
	No.	Type		
a. Non-Hazardous Nitroaromatic Contaminated Soil	01	DT	0025	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above Approval # WT PJ# 5879	H. Handling Codes for Wastes Listed Above
15. Special Handling Instructions and Additional Information	

NON-HAZARDOUS SITE

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name Robert F. Falwor Jr	Signature <i>Robert F. Falwor Jr</i>	Date Month Day Year 1 20 04
17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name Bryan K. Kline	Signature <i>Bryan K. Kline</i>	Date Month Day Year 1 20 04
18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date Month Day Year

19. Discrepancy Indication Space 23.06 TONS		
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.		
Printed/Typed Name Mr. Johnson	Signature <i>Mr. Johnson</i>	Date Month Day Year 1 20 04

#86

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
OH 3800015379

Manifest Document No. **04024**

2. Page 1 of 1

3. Generator's Name and Mailing Address
**NASA Plum Brook Station
6100 Columbus Ave.
Sandusky, OH 44870**

4. Generator's Phone (419) 621-3234

5. Transporter 1 Company Name
Barnes Nursery

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

**Erie County DOES
554 River Road
Huron, OH 44839**

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone

419-433-7303

11. WASTE DESCRIPTION

12. Containers

13. Total Quantity

14. Unit WL/Vol.

a. **Non-Hazardous Nitroaromatic Contaminated Soil**

01

DT

0025

T

b.

c.

d.

G. Additional Descriptions for Materials Listed Above

Approval #
WT PJ# 5879

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: **Robert F. Lallier Jr** Signature: *Robert F. Lallier Jr* Date: **1/20/04**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: **DAVID MAY** Signature: *David May* Date: **1/20/04**

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date:

19. Discrepancy Indication Space
12.25 TONS

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.
Printed/Typed Name: *[Signature]* Signature: *[Signature]* Date: **1/20/04**

NON-HAZARDOUS WASTE

GENERATOR SITE

TRANSPORTER FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. OH 3800015379	Manifest Document No. 04025	2. Page 1 of 1
3. Generator's Name and Mailing Address NASA Plum Brook Station 6100 Columbus Ave. Sandusky, OH 44870				
4. Generator's Phone (419) 621-3234				
5. Transporter 1 Company Name Berries Nursery	6. US EPA ID Number	A. State Transporter's ID		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter 1 Phone		
9. Designated Facility Name and Site Address Erie County DOES 554 River Road Huron, OH 44839		C. State Transporter's ID		
10. US EPA ID Number		D. Transporter 2 Phone		
		E. State Facility's ID		
		F. Facility's Phone 419-433-7303		
11. WASTE DESCRIPTION		12. Containers	13. Total Quantity	14. Unit WL/Vol.
a. Non-Hazardous Nitroaromatic Contaminated Soil		No. 01 Type DT	0025	T
b.				
c.				
d.				
G. Additional Descriptions for Materials Listed Above Approval # WT PJ# 5879		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				

NON-HAZARDOUS WASTE GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name Robert F. Lalkov Jr	Signature <i>Robert F. Lalkov Jr</i>	Date Month 1 Day 20 Year 04
17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date Month Day Year
19. Discrepancy Indication Space 13.28 TONS		
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.		
Printed/Typed Name Eric Johnson	Signature <i>Eric Johnson</i>	Date Month 1 Day 20 Year 04

TRANSPORTER FACILITY

93

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on 8 1/2" (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
OH 38000 15379

Manifest Document No. **04026**

2. Page 1 of 1

3. Generator's Name and Mailing Address
**NASA Plum Brook Station
6100 Columbus Ave.
Sandusky, OH 44870**

4. Generator's Phone (419) **621-3234**

5. Transporter 1 Company Name
Barnes Nursery

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

**Erie County DOES
554 River Road
Huron, OH 44839**

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone

419-433-7303

11. WASTE DESCRIPTION

12. Containers

13. Total Quantity

14. Unit Wt./Vol.

a. **Non-Hazardous Nitroaromatic Contaminated Soil**

No. **01**

Type **DT**

0025

T

G. Additional Descriptions for Materials Listed Above

Approval #
WT PJ# 5879

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name
Robert F. Lallier Jr.

Signature
Robert F. Lallier Jr.

Date
Month Day Year
1 20 04

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Ron Kovic Jr.

Signature
Ron Kovic Jr.

Date
Month Day Year
1 20 04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date
Month Day Year

19. Discrepancy Indication Basis

15.04 TONS

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name
Eric Schuster

Signature
Eric Schuster

Date
Month Day Year
1 20 04

NON-HAZARDOUS WASTE GENERATOR SITE

#88

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on 60 lb (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
OH 38000 15379

Manifest Document No. **04027**

2. Page **1** of **1**

3. Generator's Name and Mailing Address
**NASA Plum Brook Station
6100 Columbus Ave.
Sandusky, OH 44870**

4. Generator's Phone (419) **621-3234**

5. Transporter 1 Company Name
Bernes Nursery

6. US EPA ID Number

A. State Transporter's ID

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

9. Designated Facility Name and Site Address
**Erie County DOES
554 River Road
Huron, OH 44839**

10. US EPA ID Number

E. State Facility's ID
F. Facility's Phone
419-433-7303

11. WASTE DESCRIPTION

12. Containers
No. Type

13. Total Quantity

14. Unit
Wt./Vol.

a. **Non-Hazardous Nitroaromatic Contaminated Soil**

01 DT

0025

T

b.

c.

d.

G. Additional Descriptions for Materials Listed Above
**Approval #
WT PJ# 5879**

H. Handling Codes for Wastes Listed Above

16. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name
Robert F. Haller Jr.

Signature
Robert F. Haller Jr.

Date
1/20/04

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Robert P. Malin Jr.

Signature
Robert P. Malin Jr.

Date
1/20/04

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name

Signature

Date

19. Discrepancy Indication Space
8.57 TONS

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name
Eric Johnson

Signature
Eric Johnson

Date
1/20/04

NON-HAZARDOUS WASTE GENERATOR SITE

RECEIVED BY FACILITY

APPENDIX E

MONITORING WELL ABANDONMENT DOCUMENTATION



02-442

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
1939 Fountain Square Drive
Columbus, Ohio 43224-1385
Voice: (614) 265-6739 Fax: (614) 265-6767

U134426

LOCATION

County Erie Township Milan Section/Lot Number _____
Owner/Builder PLUM BROOK, NASA

Address of Well Location Security Rd & Pintle Light Rd
Number _____ Street Name _____

City Sundusky Zip Code +4 _____
.25 miles North of Security Rd & Pintle Rd
n, e, s, w nearest intersection

Property Location Description on the west side of Security Rd
n, e, s, w road name

Location of Well in State Plane coordinates, if available N S X _____ +/- _____ ft. or m Y _____ +/- _____ ft. or m

Elevation of Well _____ +/- _____ Datum Plain: NAD27 NAD83

Source of Coordinates: GPS Survey Other _____

ORIGINAL WELL ODNR Well Log Number _____ Copy attached? Yes or (No) (circle one)

MEASURED CONSTRUCTION DETAILS Date of measurements 01-06-03

Depth of Well 104' Static Water Level 40'
Size of Casing 4" Length of casing 90'
Well Condition UNKNOWN

SEALING PROCEDURE Method of Placement Trimmy Grout, Containerize w/iter

Placement:	From	To	Sealing Material	Volume
	<u>104'</u>	<u>04'</u>	<u>volclay Grout</u>	<u>25 gal.</u>
	<u>04'</u>	<u>02'</u>	<u>Hydr Plug</u>	<u>50 lb.</u>
	<u>02'</u>	<u>Surface</u>	<u>Grout</u>	<u>50 lb.</u>

Was Casing Removed? Yes or (No) (circle one)

Condition of Casing UNKNOWN
Perforations: From _____ To _____
From _____ To _____

Date Sealing Performed 01-06-03
Reason(s) for Sealing site to be excavated

CONTRACTOR Name Belasco Drilling ODH Registration # N/A
Address 1519 Alum Creek Dr.
City/State/Zip Col. Oh. 43209
Signature [Signature]
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.
ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224-1385
Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

FROM : BELASCO
DNR 7810.00

02-442

FAX NO. : 614 252 2526
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
1939 Fountain Square Drive
Columbus, Ohio 43224-1385
Voice: (614) 265-6739 Fax: (614) 265-6767

May. 11 2006 12:59PM P3

0142201

LOCATION

County Erie Township Milan Section/Lot Number _____
Owner/Builder Plum Brook, NASA
Circle One or Both
Address of Well Location Security Rd & Pintle Light Rd Street Name
City Sandusky Zip Code +4 _____
.5 miles west of Security Rd / Pintle Light Rd
nearest intersection
Property Location Description on the South side of Security Rd
road name

Location of Well in State Plane coordinates, if available N S X _____ +/- _____ ft. or m Y _____ +/- _____ ft. or m

Elevation of Well _____ +/- _____ ft. or m Datum Plain: NAD27 NAD83

Source of Coordinates: GPS Survey Other _____

ORIGINAL WELL ODNR Well Log Number _____ Copy attached? Yes or No (circle one)

MEASURED CONSTRUCTION DETAILS

Date of measurements 01-07-03

Depth of Well 28' Static Water Level 13'
Size of Casing 2" Length of casing 18'
Well Condition unknown

SEALING PROCEDURE

Method of Placement Trimmy Grout

Placement:	From	To	Sealing Material	Volume
	<u>28'</u>	<u>4'</u>	<u>void clay Grout</u>	<u>45 Gal</u>
	<u>4'</u>	<u>2'</u>	<u>hole plug</u>	<u>50 LB</u>
	<u>2'</u>	<u>surface</u>	<u>concrete</u>	<u>50 LB</u>

Was Casing Removed? Yes or No (circle one)

Condition of Casing unknown
Perforations: From _____ To H
From _____ To OL

Date Sealing Performed 01-07-03
Reason(s) for Sealing Site to be excavated

CONTRACTOR

Name Belasco Drilling ODH Registration # N/A
Address 1519 Alum Creek Dr.
City/State/Zip Columbus Ohio 43209
Signature Alan Belasco

I hereby certify the information given is accurate and correct to the best of my knowledge.

APPENDIX F

QUALITY CONTROL DOCUMENTATION

**FINAL
INTERIM SOIL REMOVAL ACTION REPORT
Excavation, Ex-Situ Bioremediation and Disposal of Contaminated Soil
Plum Brook Ordnance Works
Pentolite Road Red Water Ponds
Sandusky, Ohio**

**Contract No. DACW69-02-D-0004
Work Order No. 013**

This document is provided to certify that the Independent Quality Control Team (IQCT) has reviewed the Interim Soil Removal Action Report in accordance with the Quality Control Plan. All comments resulting from the various reviews have been resolved and/or incorporated.

<u>Assignment</u>	<u>Name</u>	<u>Signature</u>	<u>Date</u>
<u>Senior Review</u>			
	Paul Saluja		5/10/06
<u>Peer Review</u>			
	Kimberlie Chambers		05/10/06

FINAL

INTERIM SOIL REMOVAL ACTION REPORT
Excavation, Ex-Situ Bioremediation and Disposal of Contaminated Soil
Plum Brook Ordnance Works
Pentolite Road Red Water Ponds
Sandusky, Ohio

Contract No. DACW69-02-D-0004
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The following comments were provided by the WTI Internal Quality Control Team (IQCT). All comments resulting from this review have been resolved and/or incorporated into the Plan.

General:

1. Change the word "draft" to "final" where appropriate prior to submittal of this final report.

Concur: The word "draft" has been replaced by the word "final" where appropriate.

2. Change the footer to reflect the date of completion of this final report.

Concur: The date in the footer has been changed from November 2005 to May 2006.

Specific:

2. Definitions and Acronyms: *IT Corporation* should be added

Concur: The definition for IT Corporation has been added to the Definitions and Acronyms section.

3. Definitions and Acronyms: The acronym used for the Final Action Memorandum is counter intuitive. The fact that it is Final Action Memorandum is not identified in the acronym. To be consistent with the TNTB report, write out and italicize or if use in the same sentence, etc. use *PRRWP Final Action Memorandum (WTI 2003)*

Concur: The PRRWP ISRA acronym was removed and replaced with PRRWP Final Action Memorandum (WTI 2003)

4. Executive Summary: 4th paragraph- 1st sentence: The reference should be *WTI, 2003*.

Concur: The change was made as suggested.

5. Executive Summary: last sentence: Change this to reflect USACE's suggested language in the Final TNT B Report as follows, "upon over excavation, it is recommended that a No Further Action Decision Document be prepared for the soils at PRRWP, recommending no further action and requesting closure.

Concur: The change was made as suggested.

6. Executive Summary: format: Fit to two pages by adjusting margins.

Concur: The change was made as suggested.

7. Section 1.0, 1st paragraph, 1st sentence. Recommend rewording the "purpose" of the ISRA Report. The purpose of the report is to document/report on the results from interim soil removal action, as described in the Final Action Memo.

Concur: The sentence was reworded as follows, "The purpose of this Interim Soil Removal Action (ISRA) Report is to discuss soil remediation at the former Plum Brook Ordnance Works (PBOW) Road Red Water Ponds (PRRWP) site as described in the *PRRWP Final Action Memorandum (WTI 2003)*."

8. Section 1.4 consider revising either the title or the term "Action Memorandum" in the first sentence to refer to the proper name of the Action Memorandum.

Concur: The sentence was reworded as follows, "The purpose of the *PRRWP Final Action Memorandum (WTI 2003)* was to set forth the selected response action for the PRRWP."

9. Table 4: Recommend changing title to reflect that these confirmatory samples are from original excavation.

Concur: The title was changed to the following, "Summary of Original Excavation Confirmatory Sampling Results."

10. Table 5: change this title to reflect that while these were investigative samples they were also used as confirmatory sample results for the final excavation .

Concur: The title was changed to the following, "Concur: The title was changed to the following"

Section 6:0: The recommendation should not include collection confirmatory samples as we have already done this. See confirmatory sampling in section 3.5.1. As with TNTB the confirmatory sampling that was done at the perimeter test pits, where the HI calculation was less than one, serves as the justification for recommending that a No Further Action Decision Document be prepared for the soils at PRRWP, recommending no further action and requesting closure. The last sentence is ok, just be clear from where the confirmatory samples will come.

Concur: The change has been made as suggested. Rather than stating the need for additional confirmatory samples, the following sentence was added, "Confirmatory sampling that was done at the perimeter test pits, where the HI calculation was less than one, serves as the justification for recommending that a No Further Action Decision Document be prepared for the soils at PRRWP, recommending no further action and requesting closure."

FINAL

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The following comments were provided by Mr. Frank Albert, CELRH-EC-CE of the United States Army Corps of Engineers, Huntington District, Huntington, West Virginia. All comments resulting from this review have been resolved and/or incorporated into the Plan.

1. Report Cover

- The word "Plum(b)" was misspelled on the cover.

Concur: The word "Plum(b) was misspelled on the cover of the reports, and will be corrected for future submittals

- The date of the report should be revised to be current when the final is submitted.

Concur: The date of the report will be revised to read "May 2006," rather than "November 2005" as was the date of the previous draft submittal

2. Table of Contents

- Section 2.0. The title should be revised to *Applicable or Relevant and Appropriate Requirements*. Please note the misspelling of *Relavent*.

Concur: The title of this section was revised as suggested. Relevant has replaced the misspelled versions of the word.

- Section 2.1. The word *Remedial* should be revised to *Remediation*.

Concur: The word "Remedial" has been changed to "Remediation"

3. Definitions and Acronyms

- HSWA – should be defined as *Hazardous and Solid Waste Amendments of 1984 to the Resource Conservation and Recovery Act*.

Concur: The definition of HSWA has been changed to read "Hazardous and Solid Waste Amendments of 1984 to the Resource Conservation and Recovery Act"

4. Executive Summary

- 3rd paragraph. The term *Waste Water Disposal Plant #1* and *Disposal Plant #1* are used. I believe that this facility was formerly known as *Wastewater Treatment Plant #1*. Please revise here and at other occurrences in the report.

Concur: The terms "Waste Water Disposal Plant #1 and Disposal Plant #1" have been changed to read "Wastewater Treatment Plant #1"

5. Report Text

- Section 1.0, 1st paragraph, 1st sentence. The abbreviations *ISRA*, *PBOW*, and *PRRWP* should be defined at first use.

Concur: The acronyms have been defined as suggested.

- Section 1.2, 4th paragraph. Please refer to Executive Summary comment regarding WWTP #1.

Concur: The terms “Waste Water Disposal Plant #1 and Disposal Plant #1” have been changed to read “Wastewater Treatment Plant #1”

- Section 1.3.4, 10th line. A “period” is missing at the end of the sentence.

Concur: A “period (.)” has been added at the end of the sentence as suggested.

- Section 1.4
 - 3rd line. Since the term *Defense Environmental Restoration Program* has been previously defined, it does not necessarily have to be defined at this occurrence.

Concur: The definition for DERP has been removed as suggested.

- 4th line. Since *remedial investigation/feasibility study* has been previously defined, it does not necessarily have to be defined at this occurrence.

Concur: The definition of “remedial investigation/feasibility study” was removed as suggested.

- Section 1.4, cont'd
 - 3rd – 6th lines. It is recommended that these passages regarding the Final Action Memorandum be re-written in the form “as recommended in the Final Action Memorandum”. As presented, the statements reflect work that has been accomplished. The other sections in the report detail the ISRA; this section should just state the recommendation from the FAM.

Concur: The passage has been revised to read as follows, “As recommended in the Final Action Memorandum, actions were taken to prevent human exposure to site soil containing TNT, the COC at concentrations that exceeded the remediation goal.”

- Section 1.4.1, 2nd bullet. You may consider revising this statement to clarify that the confirmatory (soil) sampling would be conducted to determine/confirm that all nitroaromatic-contaminated soil above the PRG limit had been removed/excavated.

Concur: The passage has been revised to read as follows, “Confirmatory soil sampling conducted to determine whether all nitroaromatic-contaminated soil above the established PRG had been removed.”

- Section 2.0. The title should be revised to *Applicable or Relevant and Appropriate Requirements*. Please note the misspelling of *Relavent*.

Concur: The title of this section was revised as suggested. Relevant has replaced the misspelled versions of the word.

- Section 3.1.1.
 - General. Recommend including the contractor’s name and the date that the well was abandoned, and if included in a previous report, the well abandonment information/abandonment form that was provided to ODNR.

Concur: The information regarding the well abandonment was added, and the forms were added to appendix E.

- 1st paragraph, 4th line. You may consider adding “offensive, hydrogen sulfide gas” before the word “odors”.

Concur: The phrase “offensive, hydrogen sulfide gas” was inserted before the word odors. The phrase now reads “...offensive, hydrogen sulfide gas odors...”

- 2nd paragraph. Recommend discussing the disposition of the purge water.

Nonconcur: The disposition of the purge water is unknown.

- Section 3.1.2.
 - General. Recommend including the contractor’s name and the date that the well was abandoned, and if included in a previous report, the well abandonment information/abandonment form that was provided to ODNR.

Concur: The information regarding the well abandonment was added, and the forms were added to appendix E.

- General. Was the well abandoned prior to excavation? What was the disposition of any purge water? Recommend including additional information or references which detail the abandonment of this well.

Concur in Part: The well was abandoned prior to excavation and this information is included in the section, however there is no information regarding the purge water.

- Section 3.2. The first sentence is slightly confusing, regarding the statement about ‘borrow area samples were not collected at PRRWP’. Was soil within the PRRWP Area initially planned to be used for borrow material? It is recommended that this section be revised so that all sentences “mesh together” better.

Concur: The first sentence is confusing and was removed.

- Section 3.4
 - 2nd line. Recommend that you clarify what made the soil hazardous; i.e., the level of 2,4-DNT was greater than regulatory limit of 0.13 mg/l, etc.

Concur: The sentence was revised as follows, “Initially, the soil from PRRWP was expected to be non-hazardous; however after review of the TCLP stockpile analysis it was evident that the excavated soil was hazardous (concentrations of 2,4-DNT exceeded 0.13 mg/l).”

- 4th line. Recommend expanding the statement “...as the best method for nitroaromatic-contaminated soil.” Soil composting was the best method to treat the nitroaromatic-contaminated soil (rather than stabilization as originally scoped) to reduce the nitroaromatic-contaminated soil to non-hazardous levels, and thus allowing (non-hazardous) disposal at a local landfill rather than at a hazardous waste landfill/treatment facility.

Concur: The sentence was revised as follows, “Soil Composting was the best method to treat the nitroaromatic soil (rather than stabilization as in the scope of work) to reduce the nitroaromatic-contaminated soil to non-hazardous levels, and thus allowing (non-hazardous) disposal at a local landfill rather than at a hazardous waste landfill/treatment facility.”

- Section 3.4, cont’d
 - 5th line. Recommend that you clarify that “this process” reduces/decreases the level of 2,4-DNT in the soil to non-hazardous levels, rather than “reducing the hazardous waste” to non-hazardous levels.
-

Concur: The sentence was revised as follows, “Soil Composting decreases off-site risk by reducing the levels of 2,4-DNT in the soil to non-hazardous levels on-site prior to off-site disposal, thus lowering the potential for contaminants to leach into groundwater at an off-site facility.”

- Section 3.4.3, 9th line. Recommend adding “former Pentolite Road Red Water” before the word “pond”.

Concur: The phrase “former Pentolite Road Red Water” was added before the word “pond.” The phrase now reads as “...former Pentolite Road Red Water pond...”

- Table 7. The PRG is listed as 3.36 mg/kg; however, the PRG limit is 13.8 mg/kg.

Concur: The PRG was changed from 3.36 to 13.8.

- Section 3.7, last sentence. The recommendation should be revised. Rather than recommending “site closure be granted once the area has been excavated to the proposed limits”, a recommendation such as “Therefore, it is recommended that the PRRWP Area be excavated to the proposed limits (as shown on the figures in Appendix A), which should remove all nitroaromatic-contaminated soil that is above the PRG. Soil samples should be taken once those limits have been reached to confirm clean closure” should be provided. Once successful removal of all nitroaromatic-contaminated soil above the PRG has been accomplished, a Decision Document should be prepared which would document the removal action and confirmatory soil sample results, and provide a recommendation that no further action be taken for soils at the PRRWP Area, based upon the soil excavation and sampling results. The Decision Document should further detail the final disposition of the contaminated soil; i.e., composting until contamination levels are below hazardous levels, with disposal at an offsite, licensed, non-hazardous waste landfill.

Concur: The change was made as recommended. This section now reads as, “The Test pit activity sampling and HI calculation from the highest concentration of TNT sampled along the perimeter of the proposed excavation indicates that once the site is over-excavated, the HI will be 0.39 which is less than one. In consultation with the USACE and with approval of the Ohio EPA, it was determined that excavating PRRWP until the resulting excavation perimeter HI for the nitroaromatic contaminant of concern (TNT) equal to 1.0 or less would pose no health threat and could be considered “clean” for backfilling. Therefore, it is recommended that the PRRWP Area be excavated to the proposed limits (as shown on the figures in Appendix A), which should remove all nitroaromatic-contaminated soil that is above the PRG. Soil samples should be taken once those limits have been reached to confirm clean closure” should be provided. Once successful removal of all nitroaromatic-contaminated soil above the PRG has been accomplished, a Decision Document should be prepared which would document the removal action and confirmatory soil sample results, and provide a recommendation that no further action be taken for soils at the PRRWP Area, based upon the soil excavation and sampling results. The Decision Document should further detail the final disposition of the contaminated soil; i.e., composting until contamination levels are below hazardous levels, with disposal at an offsite, licensed, non-hazardous waste landfill.

- Section 5.1, 1st line. Recommend that the “...location excavation areas...” be clarified; possibly state “The location of the proposed excavation (limits or area) at the PRRWP was surveyed...”

Concur: The sentence was changed to “The location of the proposed excavation limits at the PRRWP were surveyed by Mountain State Surveying using a Total Station with Electronic Measuring Devices using State Plane Coordinates from NAD27 provided by USACE.”

- Section 6.0.
 - General. Confirmatory soil samples should be included in the recommendation and also added to Table 10.

Concur: Confirmatory sampling was added to the recommendation Table 10

- General. Since soil that was previously excavated from this area was characterized as hazardous (based upon the level of 2,4-DNT), you should consider recommending soil composting (to reduce the 2,4-DNT to non-hazardous levels) vs. disposal of the soil as a hazardous waste. At the minimum, it is recommended that you propose an evaluation be made/cost comparison be conducted, for disposal of the soil as hazardous vs. composting and potential disposal as non-hazardous waste/soil.

Concur: It is now recommended that soil composting be performed on the excavated soil.

- Last sentence. It is recommended that this sentence be revised to something like "Upon successful completion of soil excavation and confirmatory soil sample results, it is recommended that a Decision Document be prepared and forwarded to Ohio EPA requesting that No Further Action be taken for soils at the PRRWP Area."

Concur: The sentence was edited as suggested

- Section 7.0, 1st sentence. The word "be" should be deleted.

Concur: The word "be" was deleted.

- Appendix E. It is noted that if Ms. Chambers prepared the report, she cannot perform independent quality control review of the document.

Concur: Mr. Ford prepared the report; therefore, Ms. Chambers is permitted to perform the independent quality control review.

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The following comments were provided by the PBOW TAPP Contractor, Julie Weatherington-Rice, Bennett & Williams. All comments resulting from this review have been resolved and/or incorporated into the Plan.

6. We have reviewed the Draft Interim Soil Removal Action (ISRA) Report for the PBOW Pentolite Road Red Water Ponds, November 2005. For the most part, we concur with the decisions and recommendations made in this document.

This Draft document, prepared by WTI, Poca, West Virginia, discusses the earlier investigations of contamination in soils under the historical Pentolite Road Red Water Pond and their removal. The report also discusses the historic abandonment of ground-water monitoring wells at the Plum Brook facility.

The soils excavation and removal activity was planned to remove soils from an area 20' x 20' x 10' in depth. However, the actual excavation was stopped at 8 feet because of high ground water. It was determined that contamination existed beyond the original identified investigation area so additional exploration pits were dug around the Red Water Pond in the summer of 2004. Besides field screening, the area of the original pond was identified by a distinctive "dark seam" approximately 4 feet below the ground surface. Since this was a "Risk Based" site investigation, the expansion of the area to be remediated was driven by the need to expand the remediation site to beyond the unacceptable Hazard Index. The Contaminant of Concern (COC) is TNT. Recommendation for "Further Action" is to over-excavate the site until the floor and sidewalls have a Hazard Index of 1.0 or less. Soil from the test pits was composted at the TNT B composting site, although the materials were kept separated for ease of independent testing. It has been determined that the final over-excavated materials will also be suitable for windrow composting, after which, the soils can be disposed of at the Erie County Landfill.

The test pits were filled with soil from the Barnes Nursery, the same "borrow" area used for the TNT B test pits. Final estimation is that a total of 7,600 cubic yards of soils will have to be removed before the site is finally considered clean. This is significantly larger than the original 148 cubic yard estimation. A graphic showing this original excavation and future excavation area is included in the report.

Our concerns expressed in the TNT B review about the need to insure samples are taken in oxidized materials across fractures instead of in reduced matrix settings only, apply to this location as well. Since most of the site is in natural "in-site" soils, such diligence is even more important in this setting. This earlier voiced concern is emphasized in this review.

Concur: The Ohio EPA was an integral, active member of the PBOW Project Team. All remedial work performed at TNTB, including the sampling efforts, were performed under the instruction and approval of Ohio EPA.

The report is well documented with color pictures and tables. We did not find a site map of the Pentolite Road Red Water Ponds in the printed portion of the report, so from this report, we were unable to locate the site at Plum Brook. We know the location from other information. Additional materials were included in a CD attached to the report, but the CD did not include a site map of Plum Brook Ordnance Works with the Pentolite Road Red Water Ponds included either. Such a map would have made this a better "stand alone" document.

Concur: A site overview map has been included

This concludes our comments. This is a much smaller and directly linked document to the TNT B document just reviewed. If you have additional questions and/or need further information, please feel free to contact us.

Concur: This report is a much smaller and a directly linked document to the TNT B document

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The following comments were provided by Bob Lallier, POC for NASA Plum Brook Station. All comments resulting from this review have been resolved and/or incorporated into the Plan.

7. Section 1.2 Site History, 2nd paragraph – delete the last 2 sentences and add the following:

“The remaining excess acreage in the Southwest area was sold to various private concerns. NASA currently controls approximately 6,400 acres of land which includes approximately 5,400 acres within the fence line. Of the acreage inside the fence line, NASA has a use agreement with the Ohio National Guard for 604 acres and the remainder is utilized for aerospace research as a satellite operation of the Glenn Research Center. The acreage outside the fence remains part of the test facility exclusion zone and is leased to various farmers and the Erie County Conservations League.”

Concur: The change was made as suggested.

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The following comments were provided by the WTI Internal Quality Control Team (IQCT). All comments resulting from this review have been resolved and/or incorporated into the Plan.

General:

1. Suggest changing, "test pitting" to "test pit activities" throughout the document.
Concur, performed find and replace function for entire document.
2. COC is referred to both as contaminant of concern and chemical of concern and concentration of concern, it should be contaminant(s) of concern COC(s) throughout the report.
Concur, performed find and replace function.
3. Check the use of acronyms throughout the document, sometimes they are used before they are defined and vice versa.
Concur, checked and changed as necessary.
4. Suggest changing the instances where RGO is incorrectly used to PRG.
Concur, performed find and replace function for entire document.
5. Suggest changing all instance of "confirmatory sampling" to "confirmation sampling" and other phrase variations as appropriate.
Concur, replace as appropriate.
6. After all changes are made please check overall formatting, spelling and spacing.
Concur, performed final check.

Specific:

1. Table of Contents, page i: Suggest not using acronyms in table of contents.
Concur, replaced all acronyms.
 2. Definitions and Acronyms page iii: Add Department of Defense and General Services Administration.
Concur, added acronyms and definitions as suggested.
 3. Definitions and Acronyms page iv: TSDF; T stands for Treatment not Transfer.
 4. **Concur, made change.**
 5. Executive Summary, page v: Delete references to historical reports of this site since there is an entire section devoted to their explanation (that level of detail is distracting here).
Concur, moved all reference to historical reports to section 1.3.
 6. Executive Summary, page v, 4th paragraph last sentence: Colon should be semicolon and there should only be one space following before the word "however".
Concur, made change.
 7. Executive Summary, page vi, paragraph following bulleted list: Remove the second sentence, "other remedies...". This information is detail not needed for the executive summary and is included later in the report.
-

Concur, made change.

8. Section 1.1, first paragraph, second sentence: Re word the beginning of this sentence to the following for clarity, "Although the PBOW site, situated primarily in Perkins and Oxford..."

Concur, reworded as suggested.

9. Section 1.1, second paragraph, first sentence, first word: Delete.

Concur, deleted.

10. Section 1.1.2, last sentence: Consider removing the word "anywhere".

Concur, removed.

11. Section 1.1.3, 3rd paragraph, last sentence: Consider rewording this sentence to read "The depth to groundwater varies over the site, but most groundwater elevations range between 5 and 10 feet below the ground surface."

Concur, reworded as suggested.

12. Section 1.2, first paragraph: Delete entire paragraph- somehow the first paragraph from section 1.1 was copied here.

Concur, deleted.

13. Section 1.2, 2nd paragraph, 1st sentence: Consider removing the hyphen after "9,009" and insert the word "by" before "the United States Army...". Consider changing the 4th sentence to read "It is estimated that more than 1 billion pounds of nitroaromatic explosives were manufactured during the 4 year period that the facility was in operation. In the 5th sentence consider inserting "which include" after "areas were designated,". In the 6th sentence consider inserting "which included" after "manufacture of TNT,".

Concur, made all changes as listed.

14. Section 1.2, third paragraph, 5th sentence: Government Services Administration should be General Services Administration.

Concur, made change and performed find and replace for entire report.

15. Section 1.3.1: Remove extra spaces prior to section 1.1.2

Concur, removed.

16. Section 1.4; 1st paragraph; 5th sentence: Consider replacing the word "capture" with "take into consideration".

Concur, replaced as suggested.

17. Section 1.4; 2nd paragraph; last sentence: Consider adding "or the environment" to the end of this sentence. Similar wording occurs else where in the report. If this change is made here, consider applying it to the other places in the report.

Concur, made change

18. Section 1.4.1, last bulleted item: Replace the word, "Transfer" with the word, "Treatment".

Concur, made change and performed find and replace for entire report.

19. Section 1.4.1, last paragraph: Excavation and offsite disposal wasn't the only option given for PRRWP. Add exsitu stabilization to the first sentence and then add a sentence as follows, "Other remedies included exsitu bioremediation in situ chemical oxidation and no action."

Concur, made change as suggested.

20. Section 2.3, first sentence: change, "an excavation site" to, "the excavation". Also, refer to locations (Tables) of HI calculations.

Concur, made change and reference.

21. Section 3.0, 2nd sentence: Move to end of paragraph and delete the words, "It should be noted".

Concur, removed words suggested and moved sentence.

22. Section 3.0: Rework this section to be an introduction to the entire section as well as giving a list of information the reader can expect in the next several subsections.

Concur, reworked entire section which now reads, "The proposed approach for the selected remedy at PRRWP area was excavation, ex-situ stabilization (where needed) and off-site disposal of the soil from the area in which the concentration of COC in the soil exceeded the PRG. The estimated amount of soil to be removed from the 20' X 20' X 10' site was 148 cubic yards. However the site was excavated to 8' rather than 10' because groundwater was encountered, which reduced the actual excavation total to approximately 118 cubic yards.

Following the 20' X 20' X 8' soil excavation, it was determined that based on the results of the confirmation samples from the original pit walls that the amount of soil requiring excavation was drastically underestimated in the RI/FS. Under Contract No. DACW69-02-D-0004, Work Order No. 013, test pit activities were conducted to find the perimeter of contamination and to determine the extent to which the PRRWP area would need to be excavated.

The following sections will describe the project activities during the excavation, ex-situ bioremediation, and disposal of contaminated soil at PRRWP. These activities include abatement of proximal monitoring wells, borrow area sampling, preparation of the stockpile area, field screening and confirmatory sampling of original excavation, field screening of test pit activities, confirmatory sampling of proposed excavation perimeter, site restoration, excavated soil characterization (stockpile characterization), sampling and analysis of composted (ex-situ bioremediated) soil,

and disposal of composted soil. In addition, the following sections will detail the parameters used to evaluate the remediation of PRRWP such as TCLP testing and HI calculations.”

23. Section 3.4: This information is confusing in this location. It should be added to the section 3.0 introduction and to subsequent sections discussing nitroaromatic contamination during the different phases.

Concur, removed section and added pertinent information to other sections, see response to comment #22.

24. Section 3.4.4: Change section description to Confirmation Sampling of original Excavation Area.

Concur, change section name as suggested.

25. Section 3.4.4: Add a sentence to the end of this paragraph that refers reader to explanation in Section 3.5. And add a subsection or at least a reference to the Table 6, original HI calculation as this is what drove additional excavation/test pit activity at the site.

Concur, made change and added the following language, “The HI for 1,440 mg/kg was 42.78 (refer to Table 6 and Section 3.6 for details on the original HI calculation), which greatly exceeded the acceptable limit of an HI of 1 or less. Due to the underestimation of contamination extent, meaning the samples came back “hot” (above 13.8 mg/kg) test pit activities were conducted 10 feet from each side of the original 20’X 20’ excavated pit and 10’ to 20’ from the excavated test pits. Test pit activities were conducted until the sample came back below 13.8 mg/kg. Refer to Section 3.5 for details of the test pit activities.”

26. Section 3.6: create two subsections, one for original HI and for test pit future excavation perimeter HI.

Concur, added two subsections,

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This document is provided to certify that the Independent Quality Control Team (IQCT) has reviewed the Interim Soil Removal Action Report in accordance with the Quality Control Plan. All comments resulting from the various reviews have been resolved and/or incorporated.

<u>Assignment</u>	<u>Name</u>	<u>Signature</u>	<u>Date</u>
<u>Senior Review</u>			
	Paul Saluja		11/22/05
<u>Peer Review</u>			
	Kimberlie Chambers		11/22/05
