U.S. Army Corps of Engineers

Omaha District
Offutt AFB, Nebraska

SENECA ARMY DEPOT ACTIVITY
TIME CRITICAL REMOVAL ACTION
METAL SITES – SEAD'S 50/54
SENECA COUNTY
ROMULUS, NEW YORK

Contract No. DACA45-98-D-0004
Task Order No. 0035

FINAL
COMPLETION REMOVAL REPORT

December 2003

01M-0007

WESTON SOLUTIONS
Restoring Resource Efficiency

FINAL

COMPLETION REMOVAL REPORT
TIME-CRITICAL REMOVAL ACTION
METALS SITE – SEAD 50/54
SENECA COUNTY
ROMULUS, NEW YORK

Contract No. DACA45-98-D-0004
Task Order No. 035

Prepared for

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December 2003

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LIST OF ACRONYMS

ACM	asbestos-containing material
Army	U.S. Army
AST	aboveground storage tank
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
EPA	U.S. Environmental Protection Agency
ESI	Expanded Site Inspection
ft	feet
ft^2	square feet
GPS	Global Positioning System
mg/kg	milligrams per kilogram
MW	monitoring well
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NYSDEC	New York State Department of Environmental Conservation
OSR	On-site Representative
PAHs	polynuclear aromatic hydrocarbons
Parsons	Parsons Engineering
PLM	polarized light microscopy
PPE	Personal Protective Equipment
QA	Quality Assurance
QC	Quality Control
ROD	Record of Decision
RTK	Real Time Kinematic
SEDA	Seneca Army Depot Activity
SLI	Sci Labs, Inc.
SOW	Scope of Work
SVOCs	semi-volatile organic compounds
SWMUs	Solid Waste Management Units
T&D	transportation and disposal
TAL	Target Analyte List
TCL	target compound list
TCRA	Time Critical Removal Action
ug/kg	micrograms per kilogram
USACE	U.S. Army Corps of Engineers

LIST OF ACRONYMS
(concluded)

$WESTON_{SM}$	Weston Solutions, Inc.
yd3	cubic yards

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

The Seneca Army Depot Activity (SEDA) has been closed under the Department of Defense's Base Realignment and Closure process, and the land encompassing and surrounding the Solid Waste Management Units (SWMUs) is in the process of being transferred over to the public for beneficial reuse purposes. As part of the Federal Facilities Agreement, SEDA has identified removal actions which are appropriate at sites prior to the completion of the final remedial action. As part of this objective, an Expanded Site Inspection (ESI) was performed previously in 1993 and 1994 at the former Tank Farm site at the SEDA. This former Tank Farm site encompasses two SWMUs, SEAD's 50 and 54.

Based on this ESI, it was suggested that releases of hazardous constituents, consisting primarily of metals and semi-volatile contaminants, had occurred. In order to address the release, the SEDA tasked the U. S. Army Corps of Engineers to perform a Time Critical Removal Action (TCRA) at the site to remove elevated levels of selected contaminants that were identified at the site. This action was necessary in order to reduce or possibly eliminate the identified sources of residual chemical materials [i.e., arsenic, mercury, zinc, and polynuclear aromatic hydrocarbons (PAHs)]. The ESI identified 11 locations where elevated constituent concentrations were found. The target removal areas (i.e., Areas 1 through 7) were delineated based on the 11 identified potential source release locations. These locations and chemical concentrations are shown in Figure 3-3. Based on the ESI data, maximum concentrations were reported in surface soils as follows for the contaminants of concern: 151 milligrams per kilograms (mg/Kg) for arsenic, .37 mg/Kg for mercury, 293 mg/Kg for Zinc, 5,200 micrograms per kilogram (ug/kg) for benzo(a)anthracene, 3,700 ug/kg for benzo(a)pyrene, 4,400 ug/kg for benzo(b)flouranthene, 4,000 ug/kg for benzo(k)fluoranthene, 5,500 ug/kg for chrysene, and 8,400 ug/kg for dibenzo(a,h)anthracene. Other elevated concentrations were reported for chromium, copper, lead, magnesium, and potassium, but these metals were not considered primary contaminants of concern.

U.S. Army Corps of Engineers scoped Weston Solutions, Inc. ($WESTON_{SM}$) with performing the TCRA on 4 November 2002 in order to remove surface soils to the target depth of 6 inches in Areas 1 through 7 located at the SEAD 50/54 Tank Farm site. Between 11 November 2002 and

3 March 2003, WESTON mobilized the site, cleared approximately 10 acres of vegetation, removed two 9,000-gallon aboveground storage tanks (ASTs) that were formerly known to have contained antimony ore, removed one 9,000-gallon AST that was formerly known to have contained amosite [asbestos-containing material (ACM)], removed one 507,000-gallon AST that was formerly known to have contained rutile ore, and excavated 52 cubic yards (yd^3) of soil from within the former footprint of the 507,000-gallon tank. In addition, a total of 7,030 yd^3 of surface soils were excavated from Areas 1 through 7 for metals and PAH resulting in a 36% increase in the scoped volume (from 5,150 yd^3) and an average removal depth of 0.875 feet (ft). A total of 17 yd^3 of ACM designated surface soils were excavated from the site and a total of 14,040 tons of soil were transported off-site for disposal at the Seneca Meadows Landfill in Waterloo, New York. This quantity represents a 79% increase over the scoped quantity of 7,818 tons. Figure 3-2 delineates the vertical and horizontal extent of the excavation in each area.

All target soils within Areas 1 though 7 were excavated to (at a minimum) the scoped 6-inch removal depth. However, based on elevated concentrations of arsenic, lead, mercury, and/or PAHs at specific bottom and sidewall locations, additional excavations were performed in Areas 1 through 6 to a maximum depth of 6 ft and out to a maximum lateral distance of 55 ft in order to remove residual concentrations of target analytes. No additional excavation was required in Area 7 beyond the targeted depth of 6 inches.

The results of the soil sampling program are presented in Appendix F. In all cases, data is summarized by each area of concern (i.e., Areas 1 through 7) and compared with the applicable Cleanup Goals. The Cleanup Goals listed in the table are referenced to the NY TAGM No. 4046 Recommended Soil Cleanup Objective values. Where no data exists for the Recommended Soil Cleanup Objectives as listed in the TAGM by "SB" (Site Background), the SB has been replaced with the 95th Percentile of SEDA Soil Background Data (5/13/98) as a baseline for "Background" values in comparing site data. Samples were analyzed for the 23 metals (aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc) and for 17 PAHs (2-methylnaphthalene, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene,

fluorine, indeno(1,2,3-cd)pyrene, naphthalene, phananthrene, and pyrene). Target metals for SEAD 50/54 include arsenic, mercury, and zinc.

Based on the sampling performed during the removal action, a total of 402 bottom (floor) and 205 perimeter confirmatory samples were collected. Table 3-3 includes a summary of all floor and perimeter samples referenced to the appropriate area of concern. Of the 23 metals analyzed, a total of 7 of the 23 metals (antimony, arsenic, chromium, potassium, sodium, thallium, and zinc) were reported at levels exceeding the Site Cleanup Goals when compared with the averages for each area. However, based on a comparison to the target metals list (arsenic, mercury, and zinc), exceedances of the Site Cleanup Goals were only reported in Areas 1 and 5 (for zinc) with a perimeter average of 162.1 mg/Kg and 176.4 mg/Kg respectively (versus Site Cleanup Goal of 108.9 mg/Kg) and in Area 6 (for arsenic) with a perimeter average of 13.0 mg/Kg (versus the Site Cleanup Goal of 8.24 mg/Kg). All other average area results for bottom and perimeter sample locations were below the site cleanup goals for the three target metals. In reviewing these parameters (zinc and arsenic) with site wide averages, the perimeter average for site-wide zinc concentrations is 109.2 mg/Kg versus the Site Cleanup Goal of 108.9 mg/Kg (a difference of 0.3 mg/Kg). No site-wide average exceedances exist for arsenic when compared with the Site Cleanup Goal of 8.24 mg/Kg. Of the 17 PAHs analyzed, a total of 2 out of the 17 PAHs (benzo(a)pyrene, and dibenzo(a,h)anthracene) were reported at levels exceeding the Site Cleanup Goals when compared with the averages by area. Exceedances were reported in Areas 4 and 6 (for benzo(a)pyrene) with perimeter averages of 84 and 85 ug/kg, respectively. All floor and perimeter averages exceeded the Site Cleanup Goal for dibenzo(a,h)anthracene. In reviewing these parameters (benzo(a)pyrene, dibenzo(a,h)anthracene) with site wide averages, no site-wide exceedances exist for benzo(a)pyrene (Site Cleanup Goal of 61 mg/Kg) while the site-wide bottom and perimeter averages (both 22 mg/Kg) exceed the Site Cleanup Goal of 14 mg/Kg for dibenzo(a,h)anthracene. The Site Cleanup Goal for this parameter may not be attainable due to high background concentrations for this parameter.

Based on the confirmatory soil data presented in Appendix F for samples collected during the TCRA in Areas 1 through 7, it is recommended that no further action is required at SEAD 50/54. The previously identified potential threat to public and environment as identified in the Parsons Engineering (Parsons) *Final Action Memorandum and Decision Document, Time-*

Critical Removal Actions, Four Metals Sites (SWMU's SEAD-24, 50/54, and 67) (Parsons, August 2002) and ESI, has been substantially reduced and/or eliminated based on a reduction in metals and PAH contaminant levels from those levels reported in Figure 3-3 to the levels summarized in Appendix F for Areas 1 through 7. In addition to the reduction in contaminant levels, no apparent Comprehensive Environmental Response Compensation and Liability Act release was identified. It is intended that this closure document (*Final Completion Report*) will serve as the basis for the Record of Decision. A separate Proposed Remedial Action Plan which also serves as the basis for providing site closure will be prepared separately by the U.S. Army and submitted under separate cover at a later date. This will facilitate SEDA in closing the site for later transfer of the property. The following *Final Completion Removal Report* summarizes the activities performed for the TCRA at the SEAD 50/54 site in accordance with the Parsons *Final Action Memorandum and Decision Document, Time-Critical Removal Actions, Four Metals Sites (SWMU's SEAD-24, 50/54, and 67)* dated August 2002.

SECTION 1

INTRODUCTION

1. INTRODUCTION

1.1 PROJECT DESCRIPTION

This Final Completion Removal Report documents the completion of the Time Critical Removal Action (TCRA) performed at two Solid Waste Management Units (SWMUs) located at the Seneca Army Depot Activity (SEDA) in Romulus, Seneca County, New York. The work was performed by Weston Solutions, Inc. ($WESTON_{SM}$) for the U.S. Army Corps of Engineers (USACE), Omaha District under Contract No. DACA45-98-D-0004, Task Order 0035.

Seneca Army Depot Activity was placed on the Superfund list in 1992 in accordance with the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) and has been undergoing investigation and remediation since that time. The facility was designated for closure in 1992 under the Department of Defense Base Realignment and Closure process.

The TCRA was performed in accordance with the *Final Task Work Plan* (WESTON, November 2002) and the *Final Action Memorandum and Decision Document, Time-Critical Removal Actions, Four Metals Sites (SWMU's SEAD-24, 50/54, and 67)* [Parsons Engineering (Parsons), August 2002]. Both the *Final Task Work Plan* (WESTON, November 2002) and the *Final Action Memorandum and Decision Document, Time-Critical Removal Actions, Four Metals Sites (SWMU's SEAD-24, 50/54, and 67)* (Parsons, August 2002) were drafted as part of the CERCLA process for these two SWMUs. The removal action was initiated in compliance with Section 11 of the SEDA Federal Facilities Agreement that describes removal actions as viable options for eliminating potential threats.

The goal of this TCRA for these two SWMUs is to abate, prevent, minimize, stabilize, mitigate, and/or eliminate the threat to public health, welfare, or the environment. This removal action along with the Record of Decision (ROD) will serve as the basis for providing clean closure for the SEAD 50/54 site.

The two SWMUs, identified as SEADs 50 and 54, are associated with a former aboveground storage tank (AST) farm that was located in the southeastern portion of SEDA. Specifically, SEAD 54 is referenced to an area associated with the former location of Aboveground Tank

No. 88 (a 9,000-gallon AST). SEAD 50 refers to an area associated with the former location of three additional ASTs (one 507,000-gallon AST and two 9,000-gallon ASTs).

1.2 SITE DESCRIPTION

The SEDA is a U.S. Army (Army) facility located in Romulus, Seneca County, New York (refer to Figure 1-1). The facility property occupies approximately 10,600 acres, is bounded to the west by State Route 96A, and on the east by State Route 96. Geneva and Rochester are located to the northwest (14 and 50 miles, respectively); Syracuse is 50 miles to the northeast and Ithaca is 31 miles to the south. The surrounding area is mainly used for agriculture.

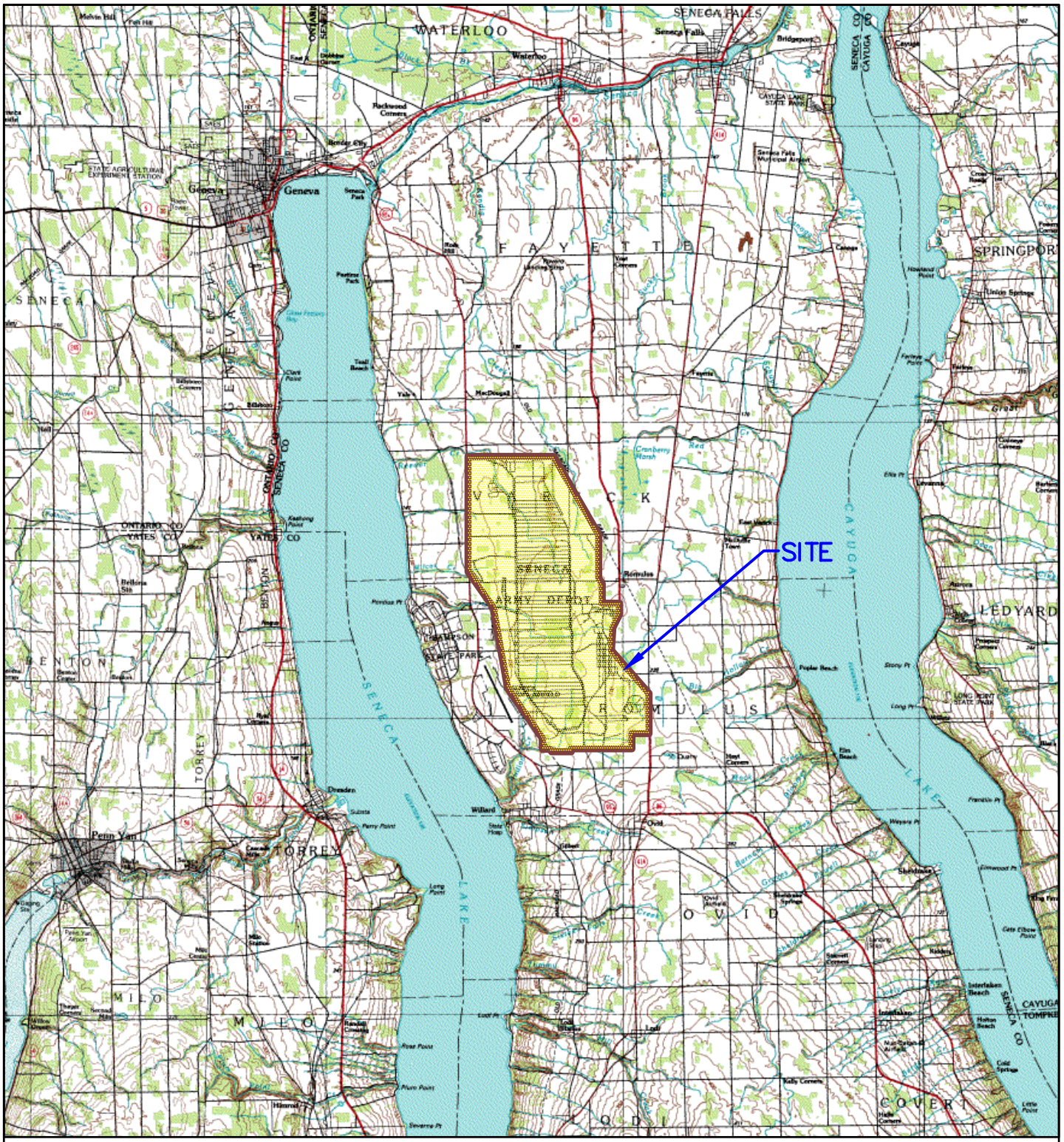
The SEAD 50/54 is located in the southeastern portion of SEDA and lies immediately west of the East Patrol Road between Buildings 350 and Buildings 356 and 357 (refer to Figure 1-2). An unnamed road crosses the site from east to west. Drainage ditches are present, adjacent to the East Patrol Road and the unnamed east-west road. The topography of the site is relatively flat and sparsely vegetated. Four empty aboveground tanks were located on-site. Antimony ore was stored in two of the empty tanks. Rutile ore was stored in the third tank. The fourth tank, designated as SEAD-54 (Tank No. 88), was filled with asbestos (amosite). A ferro-chromate ore pile was located in the southern portion of the site.

1.3 SITE BACKGROUND

Historically, there were approximately 160 tanks within the SEAD 50/54 boundaries. It is not known when the tank farm originated; however, all tanks were reportedly used to store dry materials such as ores and minerals. All tanks with exception of four were removed prior to the TCRA.

An Expanded Site Inspection (ESI) was performed by Parsons at SEAD 50/54 during 1993 and 1994. The ESI determined that surface soils within the tank farm area and drainage ditches adjacent to the tank farm area were impacted by historical use of the property.

The ESI sample results for SEAD 50/54 identified concentrations for eight metals (antimony, arsenic, chromium, copper, lead, magnesium, mercury and zinc), seven semivolatile



SOURCE:
USGS TOPOGRAPHY MAPS; GENEVA SOUTH, DRESDEN, OVID, & ROMULUS – NEW YORK QUADS

GRAPHIC SCALE
3 1.5 0 1.5 3
APPROXIMATE SCALE IN MILES

TIME CRITICAL REMOVAL ACTION
METALS SITES – SEADS 50/54
SENECA ARMY DEPOT ACTIVITY (SEDA)
ROMULUS, NEW YORK

DEPARTMENT OF THE ARMY
OMAHA DISTRICT
CORPS OF ENGINEERS
OFFUTT AFB, NEBRASKA

SITE LOCATION MAP

WESTON SOLUTIONS
MANCHESTER NEW HAMPSHIRE

DRAWN	BEG
DATE	NOV 2003
FIGURE NO.	1–1

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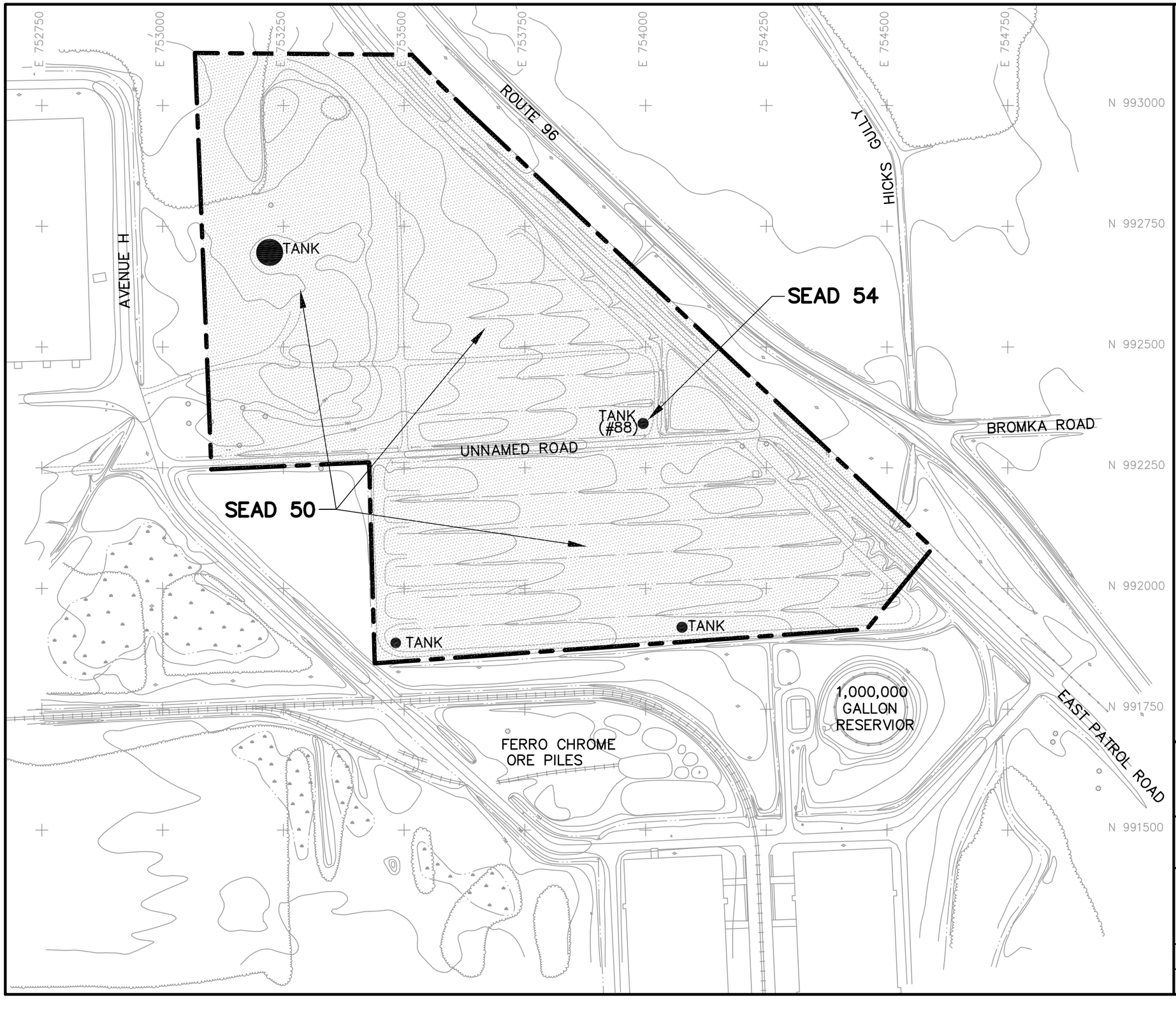

LEGEND

- GROUND CONTOUR AND ELEVATION (696)
- CHAIN LINK FENCE
- PAVED ROAD
- RAILROAD
- STREAM
- WETLAND
- UTILITY POLE
- BRUSH
- SITE PERIMETER (LIMIT OF CLEARING)

GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

WESTON SOLUTIONS
MANCHESTER NEW HAMPSHIRE

DEPARTMENT OF THE ARMY
OMAHA DISTRICT
CORPS OF ENGINEERS
OFFUTT AFB, NEBRASKA

SITE MAP

TIME CRITICAL REMOVAL ACTION
METALS SITES – SEADS 50/54
SENECA ARMY DEPOT ACTIVITY (SEDA)
ROMULUS, NEW YORK

DRAWN	DATE	FIGURE NO.
BEG	NOV 2003	1–2
CHECKED	W.O. NO.	
C.G.K.	20074–515–035	

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organic compounds (SVOCs) [six polynuclear aromatic hydrocarbons (PAHs) (i.e., benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and dibenz(a,h)anthracene) and phenol] and asbestos that exceeded the respective cleanup goals in the tank farm area. The asbestos sample collected on the surface near Tank No. 88 indicated 10% to 15% chrysotile asbestos.

In addition, the Expanded Site Inspection identified the presence of six SVOCs (i.e., benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and dibenz(a,h)anthracene) and five metals (arsenic, lead, manganese, potassium, and zinc) exceeding cleanup goals in surficial soils and sediments in drainage ditches adjacent to East Patrol Road and the unnamed east-west road that crosses the site.

As a result of the data collected during the ESI, the Army proposed to perform shallow excavations to a depth of six inches at five impacted areas within SEAD 50/54 (Areas 1, 2, 3, 4, and 5) and two additional areas at drainage ditch locations (Areas 6 and 7) which contained elevated levels of PAHs and/or Target Analyte List (TAL) metals in surface soils to eliminate the source(s) of any potential release. These areas are shown in Figure 1-2. Detailed findings of the ESI are contained in the *Final Action Memorandum and Design Document* (Parsons, 2002).

SECTION 2

SITE MANAGEMENT

2. SITE MANAGEMENT

2.1 PROJECT ORGANIZATION

Weston Solutions, Inc. coordinated all work activities with USACE, Omaha District, USACE, New York District (at SEDA), and the SEDA. A list of primary representatives from each firm is listed below:

FIRM/REPRESENTATIVE	ROLE
SEDA	
Mr. Steven Absolom	Base Environmental Coordinator
USACE	
Mr. Thomas Westenburg:	Project Manager
Mr. Thomas Battaglia[1]:	Contracting Officers Representative and On-site Representative (OSR)
WESTON	
Mr. Christopher Kane:	Project Manager
Mr. Edwin Benton[1]:	Site Manager
Mr. Steven Kirejczyk[1]:	Site Safety and Health Officer/Quality Control (QC) Officer
Mr. William Morrison[1]:	Sample Technician
Ms. Angela Vautour[1]:	Sample Technician
SUBCONTRACTORS	
Environmental Compliance Management[1]:	Asbestos-Containing Material (ACM) Sampling
Sessler Wrecking[1]:	Sitework Services
Severn Trent Laboratories	Off-site Laboratory Analytical Services
SJB Drilling[1]:	Drilling Services
Scientific Laboratories, Inc.	Off-site Laboratory Analytical Services (ACM)

Note: [1] On-site

2.2 PROJECT SCHEDULE

The project schedule shown in Figure 2-1 outlines the major milestone dates for critical start and stop periods for each activity.

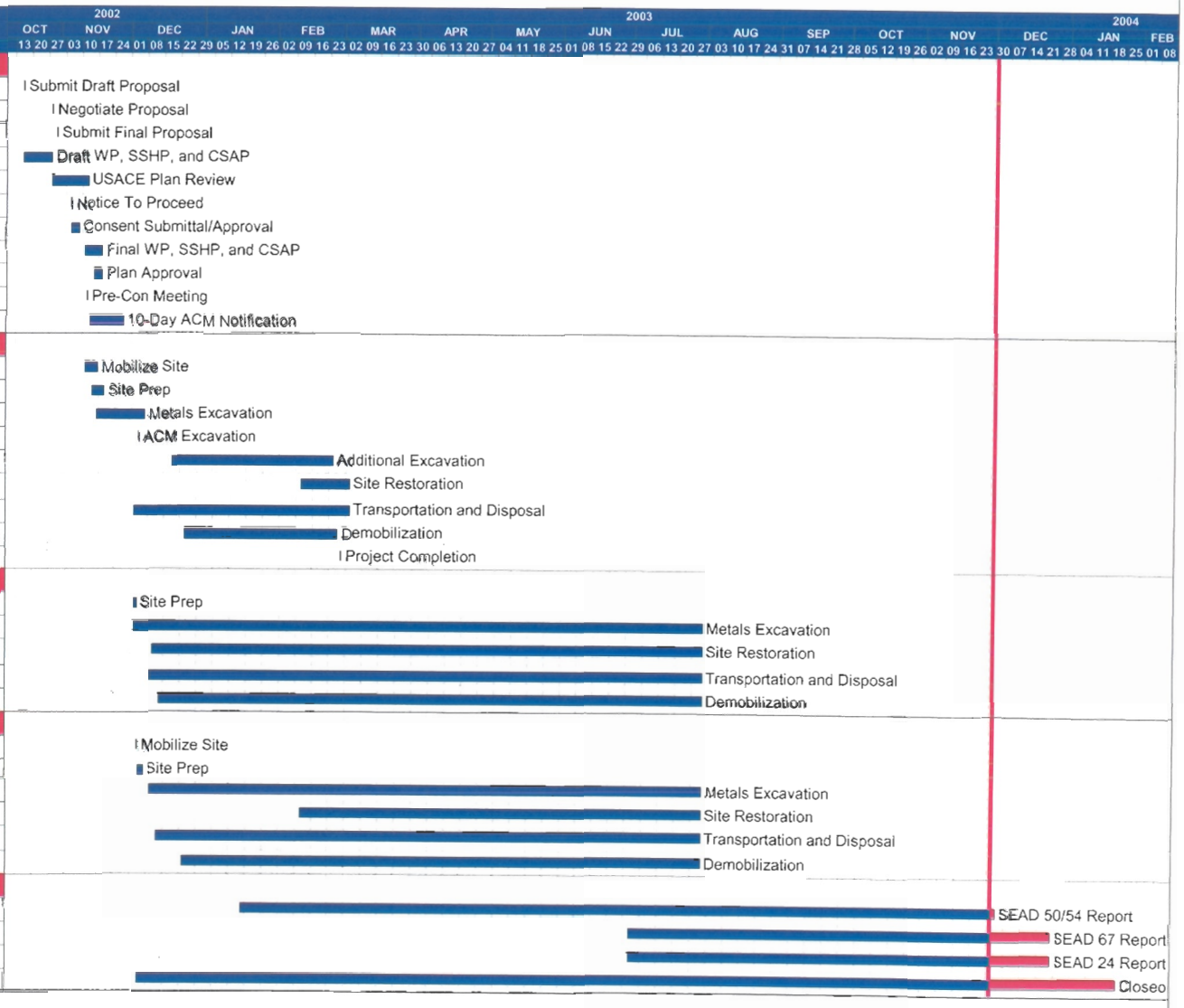
2.3 MEETINGS

On 9 September 2002, personnel from the USACE Omaha District, USACE New York District, and WESTON conducted a site visit and project kick-off meeting to discuss project objectives and *Scope of Work* (*SOW*) (USACE, September 2002). A Preconstruction meeting was held on-site between the USACE and WESTON on 12 November 2002, to discuss logistics, safety, submittals, and Quality Assurance (QA)/QC. This meeting was followed by a sitewalk on 13 November 2002.

The USACE Agenda Guide for Preconstruction Conferences included in Appendix A contains a list of items reviewed during the preconstruction meeting. This appendix also includes subcontractor job opening and/or precontruction meeting discussion topics.

FIGURE 2-1
TIME CRITICAL REMOVAL ACTION
SEADS 50/54, 24 & 67
SENECA ARMY DEPOT
ROMULUS, NY

Act ID	Description	Orig Dur	Rem Dur	Early Start	Early Finish
1000 - PLANNING					
1010	Submit Draft Proposal	1d	0	16OCT02 A	16OCT02 A
1020	Negotiate Proposal	1d	0	28OCT02 A	28OCT02 A
1030	Submit Final Proposal	1d	0	30OCT02 A	30OCT02 A
1040	Draft WP, SSHP, and CSAP	5d	0	16OCT02 A	28OCT02 A
1050	USACE Plan Review	3d	0	28OCT02 A	12NOV02 A
1060	Notice To Proceed	1d	0	05NOV02 A	05NOV02 A
1070	Consent Submittal/Approval	3d	0	05NOV02 A	08NOV02 A
1080	Final WP, SSHP, and CSAP	4d	0	11NOV02 A	18NOV02 A
1090	Plan Approval	1d	0	15NOV02 A	18NOV02 A
1100	Pre-Con Meeting	1d	0	12NOV02 A	12NOV02 A
1110	10-Day ACM Notification	10d	0	13NOV02 A	27NOV02 A
2000 - SEAD 50/54 SITEWORK					
2010	Mobilize Site	1d	0	11NOV02 A	15NOV02 A
2020	Site Prep	3d	0	14NOV02 A	19NOV02 A
2030	Metals Excavation	9d	0	16NOV02 A	05DEC02 A
2040	ACM Excavation	2d	0	04DEC02 A	04DEC02 A
2045	Additional Excavation	3d	0	18DEC02 A	24FEB03 A
2050	Site Restoration	1d	0	11FEB03 A	03MAR03 A
2060	Transportation and Disposal	12d8h	0	02DEC02 A	03MAR03 A
2070	Demobilization	1d	0	24DEC02 A	26FEB03 A
2080	Project Completion	1d	0	28FEB03 A	28FEB03 A
2400 - SEAD 67 SITEWORK					
2420	Site Prep	1d	0	02DEC02 A	03DEC02 A
2430	Metals Excavation	1d	0	02DEC02 A	31JUL03 A
2440	Site Restoration	1d	0	10DEC02 A	31JUL03 A
2450	Transportation and Disposal	1d	0	09DEC02 A	31JUL03 A
2460	Demobilization	1d	0	13DEC02 A	31JUL03 A
2600 - SEAD 24 SITEWORK					
2610	Mobilize Site	1d	0	04DEC02 A	04DEC02 A
2620	Site Prep	2d	0	04DEC02 A	06DEC02 A
2630	Metals Excavation	5d	0	09DEC02 A	31JUL03 A
2640	Site Restoration	1d	0	11FEB03 A	31JUL03 A
2650	Transportation and Disposal	5d	0	12DEC02 A	31JUL03 A
2660	Demobilization	1d	0	23DEC02 A	31JUL03 A
3000 - CLOSEOUT					
3010	SEAD 50/54 Report	30d	2d	17JAN03 A	03DEC03
3015	SEAD 67 Report	30d	15d	01JUL03 A	26DEC03
3018	SEAD 24 Report	30d	15d	01JUL03 A	26DEC03
3020	Closeout Project	90d	30d	04DEC02 A	23JAN04



Start date	16OCT02
Finish date	23JAN04
Data date	01DEC03
Run date	03DEC03
Page number	1A

U.S. ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
CONTRACT NO.: DACA45-98-D-0004

Prepared by:
WESTON SOLUTIONS

Early bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

SECTION 3

SITE ACTIVITIES

3. SITE ACTIVITIES

The primary objective of this project was to perform a TCRA to remove elevated levels of selected target metals (arsenic, mercury, and zinc) and PAHs that were identified at the site to reduce or eliminate any potential threat that exists. This removal action along with the ROD will serve as the basis for providing clean closure for the former Tank Farm property. To accomplish this objective, WESTON performed the following tasks.

- **Task 1. Mobilization**: This task included procurement and mobilization of all equipment and personnel necessary to perform site activities.
- **Task 2. Site Preparation**: This task included laying out work areas, installing and maintaining erosion and sedimentation controls (as applicable), clearing the site of vegetation, establishing work zones and staging areas, and installing construction fencing.
- **Task 3. Demolition and Removal of Tanks**: This task included the demolition and removal of four above ground steel storage tanks.
- **Task 4. Soil Removal**: This task consisted of removing surface soils to an initial depth of six inches to eliminate any immediate threats associated with the presence of site contaminants in the seven areas of concern. Additional residual soil was removed as necessary to a maximum depth of 6 feet (ft).
- **Task 5. Sampling and Analysis**: This task included the collection and analysis of post-excavation confirmatory samples to verify the vertical and horizontal limits of removal necessary to achieve site closure. Waste characterization samples were also collected for transportation and disposal (T&D) classification of excavated materials. All samples were analyzed for ACM, TAL metals, and target compound list (TCL) SVOCs and PAHs.
- **Task 6. Transportation and Disposal**: This task included the preparation of waste manifests and shipping papers for T&D of non-hazardous soil.
- **Task 7. Site Restoration**: This task included rough grading, seeding, removal of erosion and sedimentation controls, and other restoration activities as determined by the USACE OSR.
- **Task 8**. **Demobilization**: This task included the removal of equipment and supplies from the site following completion of project objectives.

3.1 TASK 1 – MOBILIZATION

Weston Solutions, Inc. mobilized the site on 11 November 2002. The mobilization task included the procurement and delivery of equipment and personnel necessary to implement all aspects of the work as defined in the *Final Task Work Plan* (WESTON, November 2002). This also included moving into office space provided by SEDA for use during the project, mobilizing construction equipment and project personnel, and familiarizing project personnel with the site and project requirements. The ACM notifications were made to the State of New York and to U.S. Environmental Protection Agency (EPA) on 13 November 2002. The ACM notification letter was approved on 26 November 2002, by the New York Department of Labor Asbestos Control Bureau for ACM removal work to begin on 27 November 2002. Copies of the ACM notifications and corresponding permits are included in Appendix B.

A list of equipment and supplies that were used during the course of the project are summarized below:

Heavy Equipment

- Track excavators with bucket and/or shear attachments
- Loader
- Off road dump truck (2)
- Bulldozer
- Tractor
- Bush Hog

Support Equipment

- Communication equipment including portable cellular phones, range radio, and computers (lap-tops)
- Global Positioning System (GPS) survey equipment
- Stockpile liners and polyethylene sheeting
- Hay bales and silt fence
- Sample bottles, coolers, etc. as specified in Quality Assurance Project Plan
- Lockable conex storage box/trailer

- Miscellaneous tools, sampling equipment, flashlights, etc.
- Portable sanitary facilities

Health and Safety Equipment

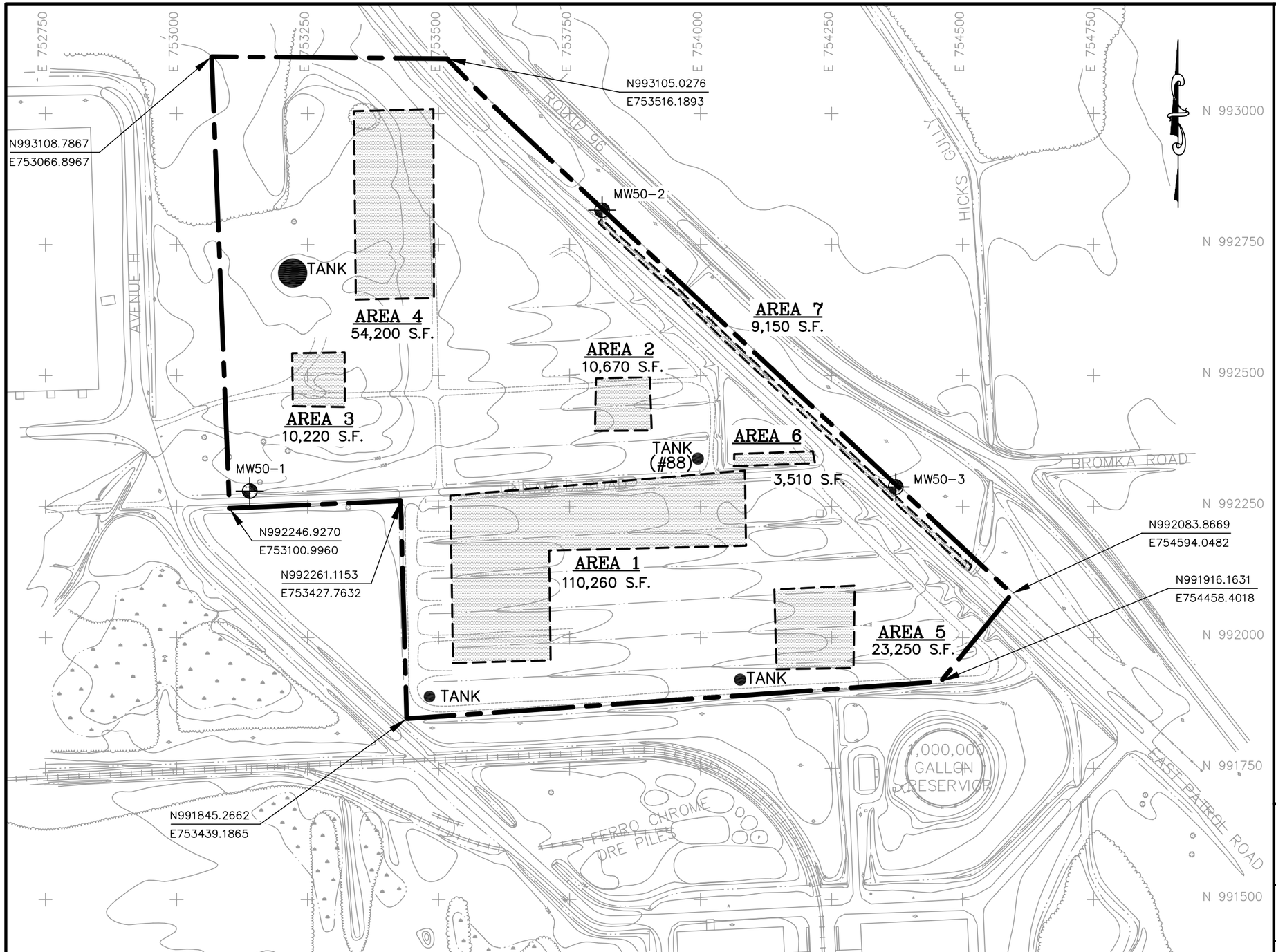
- Respiratory Protective Equipment
- Personal Protective Equipment (PPE)
- Emergency eyewash station
- First Aid kit(s)
- Fire extinguishers

3.2 TASK 2 - SITE PREPARATION

In order to prepare the site for intrusive operations, the site was surveyed using GPS; air monitoring was performed; erosion and sedimentation controls were installed; the site was cleared of all vegetation; a central staging area was constructed; and both SEDA and Dig-safe were contacted (No. 11122-065-055) to verify utility locations. A summary of these tasks is included below.

3.2.1 Survey

Weston Solutions, Inc. utilized a Trimble 5700 GPS survey unit to determine local benchmarks at existing monitoring well (MW) locations. In order to establish a relay signal from the SEAD 50/54 site, a survey monument at the Area 44 site was utilized as a base station. The accuracy of the Area 44 survey monument, as well as the Real Time Kinematic (RTK) GPS unit, were confirmed using the known coordinates of MW-50-2 and MW-50-3 at SEAD 50/54. The locations of these wells are shown in Figure 3-1. Once the RTK's position was acquired and confirmed, the perimeter coordinates for each of the seven areas were established and staked. The shaded areas and perimeter coordinates shown in Figure 3-1 represent the proposed excavation locations for Areas 1 through 7. These limits were pre-established by Parsons based on the ESI described in Subsection 1.3. Stakes were placed every 30 ft along the perimeter of the proposed excavation area, and at each 30-ft grid intersection point within the designated area. Pre-excavation grades were determined for each area, and adjustments were subsequently made



LEGEND

- GROUND CONTOUR AND ELEVATION (696)
- CHAIN LINK FENCE
- PAVED ROAD
- RAILROAD
- STREAM
- WETLAND
- UTILITY POLE
- BRUSH
- AREA TO BE REMEDIATED
- SITE PERIMETER (LIMIT OF CLEARING)
- MW50-1 MONITORING WELL

NOTE

AREA OF SITE PERIMETER = 1,198,226.85 S.F.
= 27.51 ACRES

GRAPHIC SCALE
200 100 0 100 200
APPROXIMATE SCALE IN FEET

AREA 1		AREA 2		AREA 3		AREA 4		AREA 5		AREA 6		AREA 7	
N	E	N	E	N	E	N	E	N	E	N	E	N	E
992270.9348	753522.5133	992494.6745	753800.6250	992542.8942	753220.7618	993004.7862	753338.3752	992091.8668	754140.8517	992350.3694	754064.3902	992793.9372	753806.8377
992318.8476	754084.5006	992497.4918	753903.1851	992544.4436	753320.9511	993008.9572	753490.2122	992099.2867	754294.2031	992355.6872	754214.1910	992800.5518	753828.7070
992175.3797	754086.8379	992395.3543	753906.7926	992440.2039	753321.0081	992648.1522	753491.3030	991942.0655	754292.1071	992332.9506	754218.4240	992155.9129	754531.1996
992166.2588	753711.0183	992394.3861	753798.5688	992441.8925	75.3221.9325	992645.2602	753342.2374	991939.6291	754145.0336	992327.1001	754063.8266	992133.3833	754513.7767
991956.6547	753713.9696												
991951.5373	753527.6788												

WESTON SOLUTIONS
MANCHESTER NEW HAMPSHIRE

DEPARTMENT OF THE ARMY
OMAHA DISTRICT
CORPS OF ENGINEERS
OFFUTT AFB, NEBRASKA

PROPOSED REMOVAL ACTION AREAS

TIME CRITICAL REMOVAL ACTION
METALS SITES – SEADS 50/54
SENECA ARMY DEPOT ACTIVITY (SEDA)
ROMULUS, NEW YORK

DRAWN	DATE	FIGURE NO.
BEG	NOV 2003	3-1
CHECKED	W.O. NO.	
C.G.K.	20074-515-035	

M:\Design\DWG\ACOE\SENECA\SEADs\seads 50-54 24 67\SEAD 50-54 RPT\fig 3-1.dwg, Layout 1, 12/5/2003 2:38:41 PM, girardeb, 1:1

to the areas limit of excavation as established in the *SOW* (USACE, September 2002). The limits of the Area 7 drainage ditch were also adjusted based on the physical limits of the drainage ditch and perimeter fence as compared with the surveyed limits.

3.2.2 Air Monitoring

Prior to commencement of site work, air monitoring was conducted in accordance with the EPA, New York State Department of Health Community Air Monitoring Program and the New York State Department of Environmental Conservation (NYSDEC) Fugitive Dust Suppression and Particulate Monitoring guidelines.

Continuous air monitoring was conducted along the perimeter of the work zone using Personal Data Rams at locations upwind and downwind of the site perimeter. In addition, Personal Air Monitors (SKC pumps) were utilized to monitor worker exposure at locations north, south, east, and west of the site activities and within the work zone to monitor worker exposure to particulate levels. Although data was not collected during several rain and/or snow events, no exceedances were reported on days where monitoring was performed. As a result, additional dust suppression measures were not required and the PPE levels remained unchanged from Level D modified.

3.2.3 Erosion and Sedimentation Control

Erosion and sedimentation controls consisting of hay bales and/or silt fence and stakes were installed to manage stormwater runoff within the work areas, along drainage ditches, adjacent to roads, at drainage outlet points, and at the materials stockpile area. Additional erosion controls were placed along the drainage swale adjacent to the East Patrol Road, along the south perimeter of Area 7, and at the inlet of a cast iron drainage pipe that was discovered during excavation activities in the northwest corner of Area 1.

During the course of the project, it was not necessary to collect stormwater since minimal ponding of water was encountered within the excavation and staging areas. However, it was necessary to remove frozen soil due to shallow frost at depths of up to 2.5 ft. Snow that

accumulated on any particular area was cleared prior to excavation of the underlying soil. This minimized excess weight and moisture in soil to be disposed of off-site.

3.2.4 Clearing

Clearing activities began at SEAD 50/54 on 14 November 2002, to provide site access for the heavy excavation equipment. Clearing continued on an as-needed basis throughout the project to prepare additional areas for excavation. The initial clearing limits were established by delineating the excavation area borders at distances of approximately 100 ft beyond the north, south, east, and west boundaries of Areas 1 through 7. A *Case 5230* tractor with a bush hog attachment was utilized to clear and remove shrubs, vegetation, and trees less than three inches in diameter. Trees larger than three inches in diameter were removed with an excavator or a chain saw. A total of approximately 10 acres of vegetation were cleared during site work activities.

3.2.5 Staging Area

In order to contain and control soil removed from the site, a soil staging area was located southwest of the SEAD 50/54 site adjacent to Avenue H and the existing rail location. This location was approved by both USACE and SEDA. The staging area consisted of a concrete pad that was lined with 6-mil polyethylene sheeting. The stockpiled materials were covered with 6-mil polyethylene sheeting and weighted down to prevent erosion of the pile by wind, rain, snow, and/or storm water. These controls were maintained throughout the project and removed following completion of site activities.

3.3 TASK 3 - DEMOLITION AND REMOVAL OF TANKS

A total of four (4) steel ASTs were dismantled and removed from the SEAD 50/54 site between 23 and 25 November 2002. Two of the ASTs were previously used to store antimony ore and had a capacity of approximately 9,000 gallons. The third AST was previously used to store rutile ore and had a capacity of approximately 507,000 gallons. The fourth AST (No. 88) was previously used to store ACM (e.g., amosite) and had a capacity of 9,000 gallons. The ACM AST was previously decontaminated and certified to contain no asbestos materials (per conversation with

SEDA). All four of the tanks were situated on existing site soils and did not contain any underlying concrete pad or other containment structure. Figure 3-1 shows the locations of the four ASTs. Photos of the tanks being removed are included in Appendix C.

The 507,000-gallon steel AST located southwest of Area 4 was dismantled in place. The three 9,000-gallon ASTs were relocated to the 507,000-gallon tank footprint prior to dismantling. All tanks were dismantled by Sessler Wrecking using an excavator and mounted attachments (hydraulic shear and/or grapple units). The dismantled sections of the ASTs (steel debris) were transported off-site for disposal at Seneca Iron and Metal Company on 2 December 2002.

3.4 TASK 4 - SOIL REMOVAL

A total of seven areas (identified as Areas 1 through 7) were previously identified as containing elevated concentrations of metals, PAHs, and/or ACM in surface soils as stated in the *Final Action Memorandum and Design Document* (Parsons, 2002). The footprint of these areas is shown in Figure 3-1. Based on the sampling results of the 1992/1993 ESI, an excavation depth of 6 inches was established to remove elevated levels of metals and/or PAHs in surface soils. A plot of the locations where analytes were detected above the soil cleanup objectives during the ESI is shown in Figure 3-2. Refer to Appendices E, F, and G for compound-specific cleanup goals.

Excavation activities in SEAD 50/54 were performed between 26 November 2002 and 12 December 2002, based on the initial scoped removal effort. However, additional removal activities were conducted continuously until 24 February 2003 at locations where elevated levels of metals and/or PAHs were identified at concentrations above the Cleanup Goals. Bottom sample locations exceeding the Cleanup Goals were excavated vertically beyond the 6-inch scoped removal depth while perimeter samples were excavated laterally beyond the scoped limit of excavation.

Soil was removed from Areas 1 through 7 using an excavator with a 4-ft wide grading bucket. Initial excavation depths were limited to approximately six inches in depth based on existing ESI data. The excavated material was transported from the excavation areas to a temporary stockpile.

AVENUE H

ROUTE 96

HICKS GULLY

BROMKA

AREA 1
110,264 S.F.

AREA 2
10,669 S.F.

AREA 3
10,224 S.F.

AREA 4
54,196 S.F.

AREA 5
23,247 S.F.

AREA 6
3,511 S.F.

AREA 7
9,152 S.F.

TANK
TK-A4-01-02
TK-A4-02-02

TANK (#88)
TK-A2

TANK
TK-A5

TANK
TK-A1

760
758

NOTE:
1 – ALL BOTTOM SAMPLES COLLECTED AS 5-PT. COMPOSITES
2 – ALL PERIMETER SAMPLES COLLECTED AS GRABS

GRAPHIC SCALE
60 30 0 30 60
APPROXIMATE SCALE IN FEET

LEGEND

	BOTTOM – FX DEPTH	SIDEWALL – PX LATERAL DISTANCE
	0.5'	4'
	1'	11'
	1.5'	18'
	OTHER	OTHER

o SAMPLE LOCATION

NO.	DATE	APPR.	REVISION

NO.	DATE	APPR.	REVISION

TIME CRITICAL REMOVAL ACTION
METALS SITES – SEADS 50/54
SENECA ARMY DEPOT ACTIVITY (SEDA)
ROMULUS, NEW YORK

WESTON SOLUTIONS
MANCHESTER NEW HAMPSHIRE

CHECKED	DATE	CLIENT APPROVALS	DATE
DES. ENG.			
PROJ. ENG.			
PROJ. MGR.			
APPROVED			
APPROVED		ISSUED FOR	DATE

DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

SAMPLE LOCATION MAP

DRAWN	DATE	DWG. NO.	REV. NO.
BEG	FEB 2003	3-2	
SCALE	W.O. NO.	SHT. ____ OF ____	
AS SHOWN	20074 515 035		

Based on the configuration of the area being excavated, the material was either transported directly to the staging area for characterization sampling or to a central consolidation location along the perimeter of the excavation area prior to hauling to the staging area. An approximate total of 5,150 cubic yards (yd^3) of contaminated material was initially excavated from Areas 1 through 7 based on the initial removal depth of six inches. However, an additional 1,880 yd^3 of soil was removed from the site in comparison with the initial scoped quantity for a total of 7,030 yd^3 to complete the TCRA. The following paragraphs summarize the excavation activities within each area of SEAD 50/54. Photos of the excavations are included in Appendix C.

Excavation Area 1

Area 1, consisting of an initial area of approximately 110,260 square feet (ft^2) and approximately one hundred and twenty four (124) 30 ft by 30 ft grids, was initially excavated to a depth of 6 inches. Exceedances reported for both metals and/or PAHs following the initial post-excavation sampling confirmed the presence of these parameters at elevated concentrations below the targeted vertical depth of 6 inches and lateral limits of excavation. During the first round of sampling, 67% (85 out of 127) of the confirmatory bottom samples and 90% (55 out of 61) of the confirmatory perimeter samples resulted in concentrations below the Site Cleanup Goals. Additional excavations were performed along the entire northern limit of Area 1 to a maximum depth of 1.5 ft (at bottom sample locations) and out to a maximum lateral distance of 60 ft (at one perimeter sample location) to eliminate or reduce elevated metals and PAH concentrations. A total of 3,720 yd^3 were excavated and removed from this location as a result of the limits defined during confirmatory sampling. Grid Summary Charts are included for Area 1 as shown in Tables 3-1 and 3-2. These tables summarize the distribution of samples by depth for Area 1 at grid bottom and perimeter locations. The Area 1 sample locations and limits of excavation are shown in Figure 3-2. This figure delineates the lateral and vertical extent of excavation. Additional information on confirmatory sampling is included in Subsection 3.5.4.

TABLE 3-1
GRID SUMMARY DEPTH CHART - BOTTOM SAMPLES

Location	No. Grids (total)	Surface Area (ft^2)	Number of Grids Excavated to Designated Depth / Percent of Area													
			6 in.		9 in.		12 in.		18 in.		24 in.		30 in.		72	
AREA 1	127	110,260	85	66.9%	-	-	29	22.8%	13	10.2%	-	-	-	-	-	-
AREA 2	16	10,670	16	100.0%	-	-	-	-	-	-	-	-	-	-	-	-
AREA 3	17	10,220	13	76.5%	-	-	2	11.8%	1	5.9%	-	-	1	5.9%	-	-
AREA 4	60	54,200	40	66.7%	5	8.3%	10	16.7%	4	6.7%	-	-	-	-	1	1.7%
AREA 5	26	23,250	26	100%	-	-	-	-	-	-	-	-	-	-	-	-
AREA 6	6	3,510	-	-	-	-	-	-	2	33.3%	1	16.7%	3	50%	-	-
AREA 7	10	9,150	10	100%	-	-	-	-	-	-	-	-	-	-	-	-
Totals	**262**	**221,260**	**190**	**72.5%**	**5**	**1.9%**	**41**	**15.6%**	**20**	**7.6%**	**1**	**0.4%**	**4**	**1.5%**	**1**	**0.4%**

TABLE 3-2
GRID SUMMARY CHART - PERIMETER SAMPLES

Location	No. Perimeter Points (total)	Surface Area (ft^2)	No. of Perimeter Locations Excavated to Designated Lateral Distance/Percent of Perimeter Points															
			0 ft.		3 ft.		6 ft.		9 ft.		10 ft.		25 ft.		30 ft.		55 ft.	
AREA 1	61	NA	55	90.2%	3	4.9%	-	-	-	-	1	1.6%	1	1.6%	1	1.6%	1	1.6%
AREA 2	16	NA	15	93.8%	-	-	1	6.3%	-	-	-	-	-	-	-	-	-	-
AREA 3	16	NA	11	68.8%	2	12.5%	2	12.5%	-	-	-	-	1	6.3%	1	6.3%	-	-
AREA 4	34	NA	24	70.6%	5	14.7%	4	11.8%	1	2.9%	-	-	-	-	-	-	-	-
AREA 5	20	NA	13	65.0%	7	35.0%	-	-	-	-	-	-	-	-	-	-	-	-
AREA 6	12	NA	-	-	3	25.0%	8	66.7%	-	-	-	-	-	-	1	8.3%	-	-
AREA 7	2	NA	2	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	**161**	**NA**	**120**	**74.5%**	**34**	**21.1%**	**17**	**10.6%**	**3**	**1.9%**	**3**	**1.9%**	**3**	**1.9%**	**3**	**1.9%**	**2**	**1.2%**

Excavation Area 2

Area 2, consisting of an initial area of approximately 10,670 ft^2 (100 ft by 106 ft) and approximately sixteen (16) 25 ft by 25 ft grids, was initially excavated to a depth of 6 inches.

During the first round of sampling, 100% (16) of the confirmatory bottom samples and 94% (15 out of 16) of the confirmatory perimeter samples resulted in concentrations below the Site Cleanup Goals.

Soil at the perimeter location A2-PX-016-FS was excavated out a lateral distance of 6 ft due to high concentrations of arsenic prior to meeting the Site Cleanup Goal.

A total of 190 yd^3 were excavated and removed from this location as a result of the limits defined during confirmatory sampling. Grid Summary Charts are included for Area 2 as shown in Tables 3-1 and 3-2. The Area 2 sample locations and limits of excavation are shown in Figure 3-2. This figure delineates the lateral and vertical extent of excavation. Additional information on confirmatory sampling is included in Subsection 3.5.4.

Excavation Area 3

Area 3, consisting of an initial area of approximately 10,220 ft^2 (100 ft by 102 ft) and approximately sixteen (16) 25 ft by 25 ft grids, was initially excavated to a depth of 6 inches. Exceedances reported for PAHs following the initial post excavation sampling confirmed the presence of these parameters at elevated concentrations below the targeted depth of 6 inches and lateral limits of excavation. During the first round of sampling, 77% (13 out of 16) of the confirmatory bottom samples and 69% (11 out of 16) of the confirmatory perimeter samples resulted in concentrations below the Site Cleanup Goals. However, due to the PAH exceedances that were reported above the Site Cleanup Goals, additional excavations were performed to a maximum depth of 1.5 ft (at one bottom sample location) and out to a maximum lateral distance of 30 ft (at one perimeter sample location) to eliminate or reduce elevated PAH concentrations. A total of 395 yd^3 were excavated and removed from this location as a result of the limits defined during confirmatory sampling. Grid Summary Charts are included for Area 3 as shown in Tables 3-1 and 3-2. The Area 3 sample locations and limits of excavation are shown

in Figure 3-2. This figure delineates the lateral and vertical extent of excavation. Additional information on confirmatory sampling is included in Subsection 3.5.4.

Excavation Area 4

Area 4, consisting of an initial area of approximately 54,200 ft^2 (145 ft by 374 ft) and approximately sixty (60) 30 ft by 30 ft grids, was initially excavated to a depth of 6 inches. Exceedances reported for both metals and/or PAHs following the initial post excavation sampling confirmed the presence of these parameters at elevated concentrations below the targeted vertical depth of 6 inches and lateral limits of excavation. During the first round of sampling 67% (40 out of 60) of the confirmatory bottom samples and 71% (24 out of 34) of the confirmatory perimeter samples resulted in concentrations below the Site Cleanup Goals. However, due to metals and/or PAH exceedances that were reported above the Site Background and/or Technical and Administrative Guidance Memorandum (TAGM) Derived concentrations, additional excavations were performed at 21 locations to a maximum depth of 6 ft (at bottom sample location A4-FX-023-FS6) and out to a maximum lateral distance of 9 ft at ten perimeter sample locations to eliminate or reduce elevated metals and/or PAH concentrations. A total of 1,540 yd^3 were excavated and removed from this location as a result of the limits defined during confirmatory sampling. Grid Summary Charts are included for Area 4 as shown in Tables 3-1 and 3-2. The Area 4 sample locations and limits of excavation are shown in Figure 3-2. This figure delineates the lateral and vertical extent of excavation. Additional information on confirmatory sampling is included in Subsection 3.5.4.

Excavation Area 5

Area 5, consisted of an initial area of approximately 23,250 ft^2 (150 ft by 155 ft) and approximately twenty five (25) 30 ft by 30 ft grids. Prior to excavating the entire limits of Area 5, asbestos and pre-characterization bulk soil samples were collected from each of the 25 grids to confirm the presence of ACM (greater than or equal to 1%) and to delineate the total footprint of the ACM impacted area. As a result of the ACM sampling performed by WESTON, no positive ACM was identified in any of the 25 samples collected. However, since ACM was previously found at one location (SS50-1) at 10-15% chrysotile during the ESI, WESTON

prepared ACM notifications and submitted forms to the State of New York and to EPA on 13 November 2002, to perform a removal action at this one location. The Asbestos Notification Letter was received on 26 November 2002, by the New York Department of Labor Asbestos Control Bureau and approved for ACM work to begin no earlier that 27 November 2002. Although no positive ACM had been identified by WESTON during the pre-characterization bulk soil sampling, a total of 17 yd^3 (30 ft by 30 ft by 6 inches) of soil was removed from grid location FX-015 in Area 5 on 4 December 2002, in Level C PPE based on the prior ESI result. This action was approved of by USACE in order to eliminate any potential conflict in the data. The soil excavated from this location in Area 5 was live-loaded into double-lined dump trucks and transported off-site for disposal at Seneca Meadows Landfill by Seneca Pipe and Paving, and Riccelli Enterprises for disposal as ACM.

During excavation activities at this location, Environmental Compliance Management Corporation provided an Asbestos Monitor to perform air monitoring and bulk post-excavation soil sampling. Post-excavation confirmatory sampling was conducted by Sci Labs, Inc. (SLI) using polarized light microscopy (PLM), and indicated negative results for ACM at a depth of 6 inches; therefore, additional soil removal (for ACM) was not required.

The asbestos removal effort was conducted in compliance with; EPA 340/1-90/019 Asbestos/National Emissions Standards for Hazardous Air Pollutants (NESHAP) Adequately Wet Guidelines (December 1990); EPA 340/1-90-018 Asbestos/NESHAP Regulated ACM Guidance (1990); State of New York Department of Labor Industrial Code Rule No. 56; 9 Code of Federal Regulations (CFR) 1910.1001 General Industry; 29 CFR 1926.1101 Asbestos Standard for the Construction Industry; 29 CFR 1910.134 Respiratory Protection; and USACE Safety and Health Requirements Manual EM 385-1-1.

Additional excavation for metals and PAHs was performed following completion of the ACM removal effort. Exceedances reported for metals following the initial post-excavation sampling confirmed the presence of these parameters at elevated concentrations below the targeted vertical depth of 6 inches and lateral limits of excavation. During the first round of sampling 100% (26) of the confirmatory bottom samples and 65% (13 out of 65) of the confirmatory perimeter samples resulted in concentrations below the Site Background and/or TAGM Derived

concentrations. However, due to metals exceedances that were reported above the Site Cleanup Goals, additional excavations were performed at seven locations out to a maximum lateral distance of 3 ft to eliminate or reduce elevated metals on the northern perimeter. A total of 640 yd^3 were excavated and removed from this location as a result of the limits defined during confirmatory sampling. Grid Summary Charts are included for Area 5 as shown in Tables 3-1 and 3-2. The Area 5 sample locations and limits of excavation are shown in Figure 3-2. This figure delineates the lateral and vertical extent of excavation. Additional information on confirmatory sampling is included in Subsection 3.5.4.

Excavation Area 6

Area 6, consisting of an initial area of approximately 3,510 ft^2 (25 ft by 140 ft) and approximately five (5) 25 ft by 30 ft grids, was initially excavated to a depth of 6 inches. Exceedances reported for both metals and/or PAHs following the initial post excavation sampling confirmed the presence of these parameters at elevated concentrations below the targeted vertical depth of 6 inches and lateral limits of excavation. During the first round of sampling, 100% of the six confirmatory bottom samples and 100% of the twelve confirmatory perimeter samples resulted in concentrations above the Site Cleanup Goals. Due to metals and PAH exceedances that were reported above the Site Cleanup Goals, additional excavations were performed at all six bottom locations to a maximum depth of 2.5 ft. A total of 11 out of the 12 perimeter samples were excavated out to a maximum distance of 6 ft. The remaining sample location was excavated out to a lateral distance of 30 ft in order to eliminate or reduce elevated metals concentrations. A total of 360 yd^3 were excavated and removed from this location as a result of the limits defined during confirmatory sampling. Grid Summary Charts are included for Area 6 as shown in Tables 3-1 and 3-2. The Area 6 sample locations and limits of excavation are shown in Figure 3-2. This figure delineates the lateral and vertical extent of excavation. Additional information on confirmatory sampling is included in Subsection 3.5.4

Excavation Area 7

Area 7, consisting of an area of approximately 9,150 ft^2 (10 ft by 915 ft), and approximately ten (10) 10 ft by 90 ft grids, was initially excavated to a depth of 6 inches. During the first round

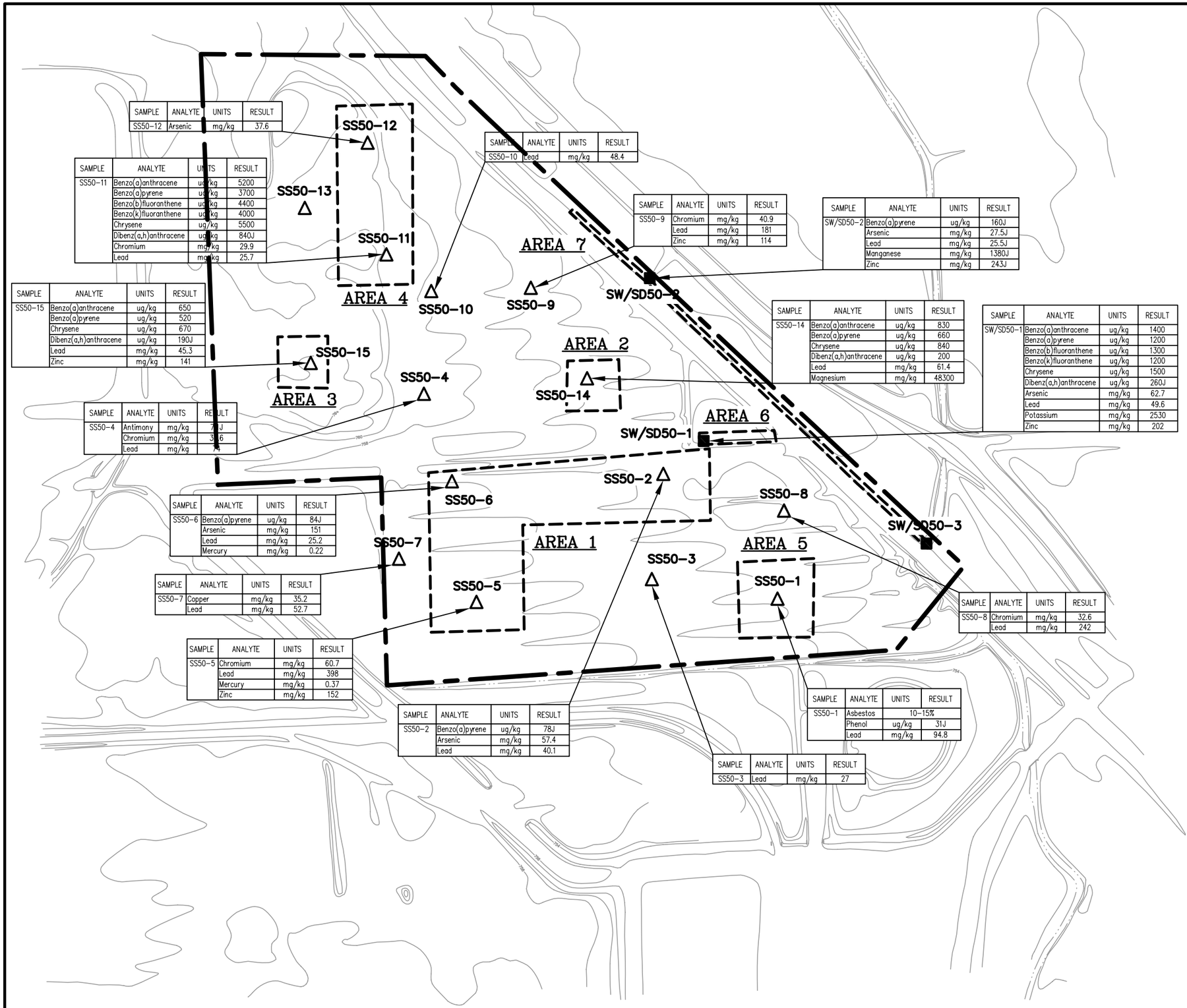
of sampling, 100% (10 out of 10) of the confirmatory bottom samples and 100% (2 out of 2) of the confirmatory perimeter samples resulted in concentrations below the Site Cleanup Goals. As a result, no additional excavations were performed in this area. A total of 185 yd^3 were excavated and removed from this location as a result of the limits defined during confirmatory sampling. Grid Summary Charts are included for Area 2 as shown in Tables 3-1 and 3-2. The Area 2 sample locations and limits of excavation are shown inFigure 3-2. This figure delineates the lateral and vertical extent of excavation. Additional information on confirmatory sampling is included in Subsection 3.5.4.

3.5 TASK 5 – CONFIRMATORY SAMPLING AND ANALYSIS

Confirmatory sampling and analysis was performed at multiple locations throughout the TCRA. This included ACM sampling in Area 5 to delineate ACM removal areas, metals and PAH sampling at the footprint of the former AST locations; background sampling for arsenic at non-site impacted areas; post-excavation sampling from the excavations in Areas 1 through 7 (metals and PAHs); and waste characterization (stockpile) sampling. A summary of the sampling and analysis performed during excavation activities is outlined in the following paragraphs. For reference purposes, ACM sample data is included in Appendix D, confirmatory surface soil sample data at former tank areas is included in Appendix E, confirmatory soil sample data for Areas 1 through 7 is located in Appendix F and waste characterization data is contained in Appendix G.

3.5.1 Asbestos-containing Material Sampling

Pre-excavation samples were collected from Area 5 to delineate the lateral and vertical extent of ACM containing soil (based on ESI data). A total of twenty-five (25) pre-excavation discrete bulk soil samples were collected on a 30-ft by 30-ft grid adjacent to sample location SS50-1 as shown in Figure 3-3. Pre-excavation soil sampling was performed for ACM prior to the proposed metals and PAH removal action in Area 5 to address any ACM issues. The samples were shipped to SLI for analysis using PLM method. The analytical results from the bulk soil sampling confirmed that no asbestos was detected in Area 5. However, WESTON performed the



SAMPLE	ANALYTE	UNITS	RESULT
SS50-12	Arsenic	mg/kg	37.6

SAMPLE	ANALYTE	UNITS	RESULT
SS50-11	Benzo(a)anthracene	ug/kg	5200
	Benzo(a)pyrene	ug/kg	3700
	Benzo(b)fluoranthene	ug/kg	4400
	Benzo(k)fluoranthene	ug/kg	4000
	Chrysene	ug/kg	5500
	Dibenz(a,h)anthracene	ug/kg	840J
	Chromium	mg/kg	29.9
	Lead	mg/kg	25.7

SAMPLE	ANALYTE	UNITS	RESULT
SS50-10	Lead	mg/kg	48.4

SAMPLE	ANALYTE	UNITS	RESULT
SS50-9	Chromium	mg/kg	40.9
	Lead	mg/kg	181
	Zinc	mg/kg	114

SAMPLE	ANALYTE	UNITS	RESULT
SW/SD50-2	Benzo(a)pyrene	ug/kg	160J
	Arsenic	mg/kg	27.5J
	Lead	mg/kg	25.5J
	Manganese	mg/kg	1380J
	Zinc	mg/kg	243J

SAMPLE	ANALYTE	UNITS	RESULT
SS50-15	Benzo(a)anthracene	ug/kg	650
	Benzo(a)pyrene	ug/kg	520
	Chrysene	ug/kg	670
	Dibenz(a,h)anthracene	ug/kg	190J
	Lead	mg/kg	45.3
	Zinc	mg/kg	141

SAMPLE	ANALYTE	UNITS	RESULT
SS50-14	Benzo(a)anthracene	ug/kg	830
	Benzo(a)pyrene	ug/kg	660
	Chrysene	ug/kg	840
	Dibenz(a,h)anthracene	ug/kg	200
	Lead	mg/kg	61.4
	Magnesium	mg/kg	48300

SAMPLE	ANALYTE	UNITS	RESULT
SW/SD50-1	Benzo(a)anthracene	ug/kg	1400
	Benzo(a)pyrene	ug/kg	1200
	Benzo(b)fluoranthene	ug/kg	1300
	Benzo(k)fluoranthene	ug/kg	1200
	Chrysene	ug/kg	1500
	Dibenz(a,h)anthracene	ug/kg	260J
	Arsenic	mg/kg	62.7
	Lead	mg/kg	49.6
	Potassium	mg/kg	2530
	Zinc	mg/kg	202

SAMPLE	ANALYTE	UNITS	RESULT
SS50-4	Antimony	mg/kg	7.0J
	Chromium	mg/kg	3.6
	Lead	mg/kg	7.4

SAMPLE	ANALYTE	UNITS	RESULT
SS50-6	Benzo(a)pyrene	ug/kg	84J
	Arsenic	mg/kg	151
	Lead	mg/kg	25.2
	Mercury	mg/kg	0.22

SAMPLE	ANALYTE	UNITS	RESULT
SS50-7	Copper	mg/kg	35.2
	Lead	mg/kg	52.7

SAMPLE	ANALYTE	UNITS	RESULT
SS50-5	Chromium	mg/kg	60.7
	Lead	mg/kg	398
	Mercury	mg/kg	0.37
	Zinc	mg/kg	152

SAMPLE	ANALYTE	UNITS	RESULT
SS50-2	Benzo(a)pyrene	ug/kg	78J
	Arsenic	mg/kg	57.4
	Lead	mg/kg	40.1

SAMPLE	ANALYTE	UNITS	RESULT
SS50-1	Asbestos	10-15%	
	Phenol	ug/kg	31J
	Lead	mg/kg	94.8

SAMPLE	ANALYTE	UNITS	RESULT
SS50-3	Lead	mg/kg	27

SAMPLE	ANALYTE	UNITS	RESULT
SS50-8	Chromium	mg/kg	32.6
	Lead	mg/kg	242

LEGEND

696 — GROUND CONTOUR AND ELEVATION

SITE PERIMETER (LIMIT OF CLEARING)

SITE PERIMETER (LIMIT OF CLEARING)

SS50-3 △ SURFACE SOIL SAMPLE

SW/SD50-4 ■ SURFACE WATER AND SEDIMENT SAMPLE

GRAPHIC SCALE

200 100 0 100 200

APPROXIMATE SCALE IN FEET

WESTON SOLUTIONS
MANCHESTER NEW HAMPSHIRE

DEPARTMENT OF THE ARMY
OMAHA DISTRICT
CORPS OF ENGINEERS
OFFUTT AFB, NEBRASKA

ANALYTES EXCEEDING SOIL CLEANUP OBJECTIVE LEVELS IN SURFACE SOILS

TIME CRITICAL REMOVAL ACTION
METALS SITES – SEADS 50/54
SENECA ARMY DEPOT ACTIVITY (SEDA)
ROMULUS, NEW YORK

DRAWN	DATE	FIGURE NO.
BEG	NOV 2003	3-3
CHECKED: C.G.K.	W.O. NO.: 20074-515-035	

M:\Design\DWG\ACOE\SENECA\SEADs\seads 50-54 24 67\SEAD 50-54 RPT\fig 3-3.dwg, Sample, 12/5/2003 2:37:29 PM, girardeb, 1:1

excavation at SS50-1 (as a precautionary measure) in accordance with the ESI to eliminate any potential ACM source materials. A discrete confirmation soil sample was collected following the excavation and indicated that ACM was not present. A copy of the 25 pre-excavation bulk sample results and the one post excavation confirmatory sample are included in Appendix D.

3.5.2 Tank Sampling and Analyses

A total of four ASTs (three 9,000-gallon tanks and one 570,000-gallon tank) were dismantled and removed from SEAD 50/54. A total of five soil samples were collected within the former footprint of the ASTs. One soil sample was collected from each of the three 9,000-gallon tank locations and two soil samples were collected from the single 507,000-gallon tank location. The confirmation sample collected from beneath the 9,000-gallon tank located southwest of Area 1 was identified as TK-A1. The confirmation sample collected from beneath the 9,000-gallon tank located southeast of Area 2 was identified as TK-A2. The confirmation sample collected from beneath the 9,000-gallon tank located southwest of Area 5 was identified as TK-A5, and the two 507,000-gallon tank confirmation soil samples were identified as TK-A4-01 and TK-A4-02. Figure 3-1 depicts the footprint of the tank location and the sample identification numbers.

All five of the soil samples collected from the tank footprints were analyzed for TAL metals using EPA Method SW-846/6010B and for TCL PAHs using EPA Method SW-846/3541/3540B/8270C. Confirmation samples collected from the surface soil beneath the three 9,000-gallon former AST locations (TK-A1-SS-FS, TK-A2-SS-FS, and TK-A5-SS-FS) resulted in arsenic, mercury, and zinc concentrations below the Site Cleanup Goals [7.5 milligrams per kilogram (mg/Kg), 0.1 mg/Kg, and 108.9 mg/Kg, respectively]. As a result, no excavations were required at the three locations formerly used to store the 9,000-gallon tanks. The two confirmation samples collected from the surface soil beneath the 507,000-gallon former AST location (TK-A4-1-SS-FS and TK-A4-1-SS-FS) resulted in lead concentrations of 538 mg/Kg and 1,460 mg/Kg. These values exceeded the Site Cleanup Goal of 400 mg/Kg. In addition, both soil samples contained elevated concentrations of PAHs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd) pyrene, phenanthrene, and pyrene. Analytical results for samples collected from the former tank locations are included in

Appendix E. Based on the elevated levels of lead and PAHs at these two locations, excavation activities were conducted within the footprint of the former 507,000-gallon AST to a depth of 6 inches for a total volume of 52 yd^3. Two additional confirmation samples (TK-A4-1-SS-2-FS2 and TK-A4-2-SS-2-FS2) were collected upon completion of excavation activities. The final confirmation samples resulted in concentrations that were below the Site Cleanup Goal for lead at 4.4 mg/Kg and 6.6 mg/Kg and below the Site Cleanup Goals for all PAHs except for dibenzo(a,h)anthracene [19 micrograms per kilogram (ug/kg) and 30 ug/kg], benzo(a)anthracene (230 ug/kg) and benzo(a)pyrene (140 ug/kg). These results were not considered significant since they were either undetected at these values or estimated (see data summary tables). A summary of final confirmatory data for the soil samples collected from the former tank locations is included in Appendix E. Based on the final confirmation sample results, USACE decided that no further excavations were necessary and the area was demobilized.

3.5.3 Background Sampling and Analysis

To establish site background concentrations for arsenic, a total of three soil samples were collected from areas surrounding the SEAD 50/54 site that were not considered impacted by previous activity or any releases. These samples identified as BK-011403-1, BK-011403-2, and BK-011403-3 was collected at the request of USACE and SEDA to compare analytical results of confirmatory samples collected during the TCRA to samples in non-site impacted areas. The results for these samples ranged between 3.2 mg/Kg and 10 mg/Kg for arsenic. All three samples were collected at schist outcrop locations outside the perimeter limits of the scoped removal areas as directed by USACE. This data was used for informational purposes only and does not supercede any of the cleanup goals used on-site. The background data for arsenic is included in Appendix F.

3.5.4 SEAD 50/54 Sampling and Analyses

The sampling and analytical procedures used during the TCRA in Areas 1 through 7 were based upon the results of the ESI as presented in the *Final Action Memorandum and Decision Document, Time-Critical Removal Actions, Four Metals Sites (SWMU's SEAD-24, 50/54, and 67)* (Parsons, August 2002). For illustrative purposes, the

locations and concentrations of the analytes exceeding Soil Cleanup Goals in surface soils and the contaminant concentrations for metals (predominantly arsenic, mercury, and zinc) and PAHs as identified during the ESI are shown in Figure 3-3.

Based on the fact that metals and PAHs were found in surface soils during the ESI, confirmatory sampling was performed in Areas 1 through 7 upon removal of the top 6 inches of surface soils. Bottom or floor samples were collected at a rate of approximately one sample per 900 ft^2. This area was based on the limits established for each 30-ft by 30-ft grid (or a fraction thereof) with exception to the bottom samples collected in Area 7 representing an area of 900 ft^2 from a 10 ft by 90 ft area. Bottom samples were collected as five-point composite samples (four corners and center of each grid section). At each bottom sample location, material was collected from depths ranging between 2 and 6 inches. Perimeter samples were collected at a rate of approximately one sample per 30 linear feet. Perimeter samples were collected as discrete samples along the exterior limit of excavation at each grid intersection point. For excavations between 6 and 12 inches in depth, perimeter samples were collected a distance of 1 ft in from the outside limit of excavation. For excavations greater than 12 inches in depth, sidewall samples were collected at each grid intersection point a distance of halfway down the sidewall.

Since the excavation in Area 7 at the drainage ditch consisted of a limited base area, i.e., 10 ft but extended in length, confirmation samples were collected from the base of excavations for each 90-ft length (or fraction thereof) as discrete samples. Perimeter samples were collected at the upstream and downstream sides of the excavation as discrete samples as well.

A total of 607 confirmation samples were collected from within the excavation limits of Areas 1 through 7. Figure 3-2 depicts the areas excavated and the sampling locations. These samples were analyzed for arsenic, mercury, and zinc using EPA Method SW-846/6010B. Approximately 20% of the confirmation field samples were analyzed for the full suite of TAL metals (23 metals) using EPA Method SW-846/6010B. The 23 metals analyzed included; aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc. An additional 20% of the samples were analyzed for the 17 TCL PAHs using EPA Method SW-846/3541/3540B/8270C. This includes; 2-methylnaphthalene,

acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, dibenzo(ah)anthracene, fluoranthene, fluorine, indeno(123-cd)pyrene, naphthalene, phenanthrene, and pyrene.

Table 3-3 summarizes the number of confirmation soil samples collected in each identified excavation area located in SEAD-50/54.

Table 3-3

Summary of Confirmation Soil Samples Collected

SEAD 50/54 Area	No. of Initial (target) Floor Samples	No. of Initial (target) Perimeter Samples	Total	No. of Confirmatory (actual) Floor Samples	No. of Confirmatory (actual) Perimeter Samples	Total
1	122	61	183	229	57	286
2	16	16	32	16	18	34
3	16	16	32	16	16	32
4	60	34	94	89	46	135
5	25	20	45	26	23	49
6	5	12	17	16	43	59
7	10	2	12	10	2	12
Total	**253**	**161**	**414**	**402**	**205**	**607**

Note: The totals above do not include duplicate or QC samples

Quality Control samples were collected, and included field duplicates and matrix spike/matrix spike duplicates (MS/MSD). One duplicate sample was collected for every 10 field samples (10%). One MS/MSD sample was collected for every 20 field samples (5%). No QA samples were collected.

The data summarized in the following paragraphs and in Appendix F references Site Cleanup Goals which are based on the NYSDEC TAGM No. 4046 Recommended Cleanup Objective values or the 95th Percentile of SEDA Background Soil Data (for values designated as "SB" in TAGM). The Site Cleanup Goals were used as guidelines in completing excavations since some of the goals could not be achieved.

Area 1 Sampling and Analysis

A total of 286 soil samples (229 floor and 57 perimeter) were collected from Area 1 upon completion of the initial excavation. A total of 40 samples (36 floor and 4 perimeter) were analyzed for the full suite of TAL metals (23 metals) using EPA Method SW-846/6010B and 45 TCL PAHs using EPA Method SW-846/3541/3540B/8270C. A total of 184 of these samples (163 floor and 21 perimeter) were analyzed for arsenic, mercury and zinc, an additional 25 samples were analyzed for arsenic and mercury only, and the remaining 77 samples were analyzed for arsenic only. The analytical results, including an analysis of the average and maximum result for each compound, for all confirmation samples collected in Area 1 are included in Appendix F.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals exceedances were reported for only one of the three target metals (zinc). The maximum arsenic concentrations were reported at 16.3 mg/Kg (floor) and 9.4 mg/Kg (perimeter) versus the Site Cleanup Goal of 8.24 mg/Kg. The maximum mercury concentrations were reported at .1 mg/Kg (floor) and .6 mg/Kg (floor) versus the Site Cleanup Goal of .1 mg/Kg, and the maximum Zinc concentrations were reported at 769 mg/Kg (floor) and 1960 mg/Kg (perimeter) vs. the Site Cleanup Goal of 108.9 mg/Kg. The exceedances reported for arsenic and mercury did not raise the average for these specific parameters to above the Site Cleanup Goals. Minor exceedances were reported for non-target metals (lead and thallium) at both floor and perimeter locations. However, since these were not considered target compounds or drivers in performing soil removal at the site, and reported levels were only slightly higher than the applicable Site Cleanup Goals, further excavation was not required.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals for PAHs, exceedances were reported in Area 1 for dibenzo(a,h)anthracene (floor and perimeter) only. The maximum dibenzo(a,h)anthracene concentrations were reported at 25 ug/Kg (floor) and 35 ug/Kg (perimeter) vs. the Site Cleanup Goal of 14 ug/kg.

Based on the residual concentrations of TAL metals and PAHs following excavation in Area 1, it was recommended that the no further removal action be performed.

Area 2 Sampling and Analyses

A total of 34 soil samples (16 floor and 18 perimeter) were collected from Area 2 upon completion of the initial excavation. A total of eight samples (four floor and four perimeter) were analyzed for the full suite of TAL metals (23 metals) using EPA Method SW-846/6010B and eight TCL PAHs using EPA Method SW-846/3541/3540B/8270C. Thirty two these samples (16 floor and 16 perimeter) were analyzed for arsenic, mercury and zinc only while an additional two samples were analyzed for arsenic only. The analytical results, including an analysis of the average and maximum result for each compound, for all confirmation samples collected in Area 2 are included in Appendix F.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals no exceedances were reported for the three target metals (arsenic, mercury, and zinc). The maximum arsenic concentrations were reported at 6.8 mg/Kg (floor) and 6.6 mg/Kg (perimeter) versus the Site Cleanup Goal of 8.24 mg/Kg. The maximum mercury concentrations were reported at .1 mg/Kg (both floor and perimeter) versus the Site Cleanup Goal of .1 mg/Kg, and the maximum Zinc concentrations were reported at 121 mg/Kg (floor) and 131 mg/Kg (perimeter) versus the Site Cleanup Goal of 108.9 mg/Kg. Minor exceedances were reported for non-target metals (chromium, lead, and thallium) at both floor and perimeter locations. However, since these were not considered target compounds or drivers in performing soil removal at the site, and reported levels were only slightly higher than the applicable Site Cleanup Goals, further excavation was not required.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals for PAHs, exceedances were reported in Area 2 for dibenzo(a,h)anthracene (floor and perimeter) only. The maximum dibenzo(a,h)anthracene concentrations were reported at 22 ug/Kg (floor) and 25 ug/Kg (perimeter) vs. the Site Cleanup Goal of 14 ug/kg.

Based on the residual concentrations of TAL metals and PAHs following excavation in Area 2, it was recommended that the no further removal action be performed.

Area 3 Sampling and Analyses

A total of 32 soil samples (16 floor and 16 perimeter) were collected from Area 3 upon completion of the initial excavation. A total of eight samples (three floor and five perimeter) were analyzed for the full suite of TAL metals (23 metals) using EPA Method SW-846/6010B and 46 TCL PAHs using EPA Method SW-846/3541/3540B/8270C. Thirty two these samples (16 floor and 16 perimeter) were analyzed for arsenic, mercury and zinc only. The analytical results, including an analysis of the average and maximum result for each compound, for all confirmation samples collected in Area 3 are included in Appendix F.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals no exceedances were reported for the three target metals (arsenic, mercury, and zinc). The maximum arsenic concentrations were reported at 8.7 mg/Kg (floor) and 7.4 mg/Kg (perimeter) versus the Site Cleanup Goal of 8.24 mg/Kg. The maximum mercury concentrations were reported at .1 mg/Kg (both floor and perimeter) versus the Site Cleanup Goal of .1 mg/Kg, and the maximum Zinc concentrations were reported at 121 mg/Kg (floor) and 144 mg/Kg (perimeter) vs. the Site Cleanup Goal of 108.9 mg/Kg. Minor exceedances were reported for non-target metals (chromium, lead, potassium, and thallium) at both floor and perimeter locations. However, since these were not considered target compounds or drivers in performing soil removal at the site, and reported levels were only slightly higher than the applicable Site Cleanup Goals, further excavation was not required.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals for PAHs, exceedances were reported in Area 3 for dibenzo(a,h)anthracene (floor and perimeter) only. The maximum dibenzo(a,h)anthracene concentrations were reported at 21 ug/Kg (floor) and 24 ug/Kg (perimeter) versus the Site Cleanup Goal of 14 ug/kg.

Based on the residual concentrations of TAL metals and PAHs following excavation in Area 3, it was recommended that the no further removal action be performed.

Area 4 Sampling and Analyses

A total of 135 soil samples (89 floor and 46 perimeter) were collected from Area 4 upon completion of the initial excavation. Twenty one of these samples (14 floor and 7 perimeter) were analyzed for the full suite of TAL metals (23 metals) using EPA Method SW-846/6010B and 25 TCL PAHs using EPA Method SW-846/3541/3540B/8270C. Ninety-three of these samples (60 floor and 33 perimeter) were analyzed for arsenic, mercury and zinc only. The remaining 42 samples (29 floor and 13 perimeter) were analyzed for arsenic only. The analytical results, including an analysis of the average and maximum result for each compound, for all confirmation samples collected in Area 4 are included in Appendix F.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals no exceedances were reported for the three target metals (arsenic, mercury, and zinc). The maximum arsenic concentrations were reported at 13.9 mg/Kg (floor) and 20.9 mg/Kg (perimeter) versus the Site Cleanup Goal of 8.24 mg/Kg. The maximum mercury concentrations were reported at .1 mg/Kg (both floor and perimeter) versus the Site Cleanup Goal of .1 mg/Kg, and the maximum Zinc concentrations were reported at 115 mg/Kg (floor) and 155 mg/Kg (perimeter) vs. the Site Cleanup Goal of 108.9 mg/Kg. Minor exceedances were reported for non-target metals (lead and thallium) at both floor and perimeter locations. However, since these were not considered target compounds or drivers in performing soil removal at the site, and reported levels were only slightly higher than the applicable Site Cleanup Goals, further excavation was not required.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals for PAHs, exceedances were reported in Area 4 for benzo(a)pyrene (perimeter only) and dibenzo(a,h)anthracene (bottom and perimeter). The maximum benzo(a)pyrene concentrations were reported at 100 ug/Kg (floor) and 320 ug/Kg (perimeter) vs. the Site Cleanup Goal of 61 ug/kg, while the maximum dibenzo(a,h)anthracene concentrations were reported at 25 ug/Kg (floor) and 28 ug/Kg (perimeter) vs. the Site Cleanup Goal of 14 ug/kg.

Based on the residual concentrations of TAL metals and PAHs following excavation in Area 4, it was recommended that the no further removal action be performed.

Area 5 Sampling and Analyses

A total of 49 soil samples (26 floor and 23 perimeter) were collected from Area 5 upon completion of the initial excavation. Nine of these samples (five floor and four perimeter) were analyzed for the full suite of TAL metals (23 metals) using EPA Method SW-846/6010B and 17 TCL PAHs using EPA Method SW-846/3541/3540B/8270C. Thirty-seven of these samples (21 floor and 16 perimeter) were analyzed for arsenic, mercury and zinc only. The three remaining samples (perimeter only) were analyzed for arsenic and mercury. The analytical results, including an analysis of the average and maximum result for each compound, for all confirmation samples collected in Area 5 are included in Appendix F.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals no exceedances were reported for one of the three target metals (mercury); however exceedances were reported for both Arsenic and Zinc (perimeter only) in Area 5. The maximum arsenic concentrations were reported at 8.7 mg/Kg (floor) and 8.4 mg/Kg (perimeter) vs. the Site Cleanup Goal of 8.24 mg/Kg, and the maximum Zinc concentration was 887.0 mg/Kg vs. the Site Cleanup Goal of 108.9 mg/Kg. The maximum concentration for mercury was reported at 0.1 mg/Kg (both floor and perimeter) vs. the Site Cleanup Goal of 0.1 mg/Kg. Minor exceedances were reported for non-target metals (potassium and thallium) at both floor and perimeter locations. However, since these were not considered target compounds or drivers in performing soil removal at the site, and reported levels were only slightly higher than the applicable Site Cleanup Goals, further excavation was not required.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals for PAHs, exceedances were reported in Area 5 for dibenzo(a,h)anthracene only. The maximum dibenzo(a,h)anthracene concentrations were reported at 24 ug/Kg (floor) and 25 ug/Kg (perimeter) vs. the Site Cleanup Goal of 14 ug/Kg.

Based on the residual concentrations of TAL metals and PAHs following excavation in Area 5, it was recommended that the no further removal action be performed.

Area 6 Sampling and Analyses

A total of 59 soil samples (16 floor and 43 perimeter) were collected from Area 6 upon completion of the initial excavation. Four of these samples (1 floor and 3 perimeter) were analyzed for the full suite of TAL metals (23 metals) using EPA Method SW-846/6010B and 17 TCL PAHs using EPA Method SW-846/3541/3540B/8270C. Thirteen of these samples (four floor and nine perimeter) were analyzed for arsenic, mercury and zinc only. The remaining 42 samples (11 floor and 31 perimeter) were analyzed for arsenic only. The analytical results, including an analysis of the average and maximum result for each compound, for all confirmation samples collected in Area6 are included in Appendix F.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals no exceedances were reported for two of the target metals (mercury and zinc); however exceedances were reported for Arsenic in Area 6. The maximum arsenic concentrations were reported at 9.5 mg/Kg (floor) and 41.9 mg/Kg (perimeter) versus the Site Cleanup Goal of 8.24 mg/Kg. The maximum concentration for mercury was reported at 0.1 mg/Kg (both floor and perimeter) versus the Site Cleanup Goal of 0.1 mg/Kg and the maximum concentrations for zinc were reported at 81.5 mg/Kg (floor) and 100.0 mg/Kg (perimeter) versus the Site Cleanup Goal of 108.9 mg/Kg. Minor exceedances were reported for non-target metals (potassium and thallium) at both floor and perimeter locations. However, since these were not considered target compounds or drivers in performing soil removal at the site, and reported levels were only slightly higher than the applicable Site Cleanup Goals, further excavation was not required.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals for PAHs, exceedances were reported in Area 6 for benzo(a)pyrene (perimeter only) and dibenzo(a,h)anthracene. The maximum benzo(a)pyrene concentrations was reported at 130 ug/kg versus the Site Cleanup Goal of 61 ug/kg, while the maximum dibenzo(a,h)anthracene concentration was reported at 23 ug/kg (floor) and 26 ug/kg (perimeter) versus the Site Cleanup Goal of 14 ug/kg.

Based on the residual concentrations of TAL metals and PAHs following excavation in Area 6, it was recommended that the no further removal action be performed.

Area 7 Sampling and Analysis

A total of 12 soil samples (10 floor and 2 perimeter) were collected from the Area 7 drainage ditch upon completion of the initial excavation. These samples were analyzed for the following metals: arsenic, mercury, and zinc using EPA Method SW-846/6010B. In addition, 3 of the 12 initial confirmation samples (two floor and one perimeter) were analyzed for the full suite of TAL metals (23 metals) using EPA Method SW-846/6010B and 17 TCL PAHs using EPA Method SW-846/3541/3540B/8270C. The analytical results, including an analysis of the average and maximum result for each compound, for all confirmation samples collected in Area 7 are included in Appendix F.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals no exceedances were reported for the three target metals (arsenic, mercury, and zinc) in Area 7. The maximum arsenic concentrations were reported at 6.7 mg/Kg (floor) and 6.1 mg/Kg (perimeter) versus the Site Cleanup Goal of 8.24 mg/Kg. The maximum concentration for mercury was reported at 0.1 mg/Kg (both floor and perimeter) versus the Site Cleanup Goal of 0.1 mg/Kg and the maximum concentrations for zinc were reported at 97.8 mg/Kg (floor) and 95.9 mg/Kg (perimeter) versus the Site Cleanup Goal of 108.9 mg/Kg. Minor exceedances were reported for non-target metals (potassium, sodium, and thallium) at both floor and perimeter locations. However, since these were not considered target compounds or drivers in performing soil removal at the site, and reported levels were only slightly higher than the applicable Site Cleanup Goals, further excavation was not required.

Based on a comparison of the average results for floor and perimeter confirmatory sample data to the Site Cleanup Goals for PAHs, exceedances were reported in Area 7 for benzo(a)pyrene (floor only) and dibenzo(a,h)anthracene. The maximum benzo(a)pyrene concentrations was reported at 85 ug/kg versus the Site Cleanup Goal of 61 ug/kg, while the maximum dibenzo(a,h)anthracene concentration was reported at 26 ug/kg (floor) and 22 ug/kg (perimeter) versus the Site Cleanup Goal of 14 ug/kg.

Based on the residual concentrations of TAL metals and PAHs following excavation in Area 7, it was recommended that the no further removal action be performed.

3.5.5 Waste Characterization Sampling

Waste Disposal samples were utilized as the basis for characterizing excavated soil for off-site landfill disposal. All excavated material, with the exception of asbestos identified soil, was stockpiled prior to T&D off-site. A representative waste disposal characterization sample was collected from each stockpile as a five-point composite, at a rate of one composite sample per 500 tons of impacted soil.

A total of 18 soil stockpile samples were collected and analyzed for waste characterization data at SEAD 50/54. Each waste characterization sample was analyzed for toxicity characteristic leaching procedure metals analysis using EPA Method SW-846/1311/6010B, volatile organic compounds using EPA Method SW-846/5035A/8260B, SVOCs using EPA Method SW-846-3541/3540B/8270C, polycyclic biphenyls using EPA Method SW-846-3541/3540B/8082, and pesticides using EPA Method SW-846-3541/3540B/8081A. Waste characterization samples were also analyzed for reactivity-cyanide using EPA Method 7.3.3.2/9014, reactivity-sulfide using EPA Method 7.3.4.2/9034, hydrogen ion concentration and corrosivity using EPA Method 9045C.

No QC samples were collected from the waste characterizations samples. The waste characterization analytical results from Areas 1 through 7 did not exhibit any hazardous waste properties. Therefore, the material was shipped off-site as non-hazardous metals and PAH contaminated soil.

All data collected from waste characterization sampling was submitted to the Seneca Meadows Landfill for review and approval prior to shipping any soil off-site. The approval letters and profile are on file and can be submitted upon request.

3.6 TASK 6 - TRANSPORTATION AND DISPOSAL

Transportation and disposal (T&D) activities were scheduled following receipt and review of waste characterization data. The waste characterization analytical results along with information on the site history, sampling methods, and soil characteristics were submitted to the disposal subcontractor for review and approval prior to profiling. Prior to shipping soil off-site, a review

of transporter and disposal facility compliance documentation was performed. The compliance check included reviewing the disposal facility operating permits, certificates of insurance, profile acceptance letters, transporter permits, transporter insurance certificates, and draft copies of the completed manifests. Copies of these documents are on file and available upon request.

3.6.1 Soil

Based on the waste characterization data for samples collected in SEAD 50/54, the soil did not exhibit properties requiring the soil to be shipped off site as hazardous material. Therefore, all the material excavated from the SEAD 50/54 site was shipped off-site as non-hazardous metals/PAH contaminated soil.

Approximately 14,000 tons of non-hazardous soil were removed from the SEAD 50/54 site as a result of the TCRA in Areas 1 through 7. Soil was shipped to the Seneca Meadows Landfill located in Waterloo, New York. A summary containing the manifest number, shipment date, truck numbers, scale weights, tare weights, etc. is contained in Appendix H. Manifests were submitted under separate cover to the USACE. A letter from the Seneca Meadows facility is also contained in this appendix certifying that the material transported from the SEAD 50/54 site was received.

3.6.2 Asbestos-Containing Material

Approximately 17 yd^3 (40 tons) of ACM categorized material from Area 5 was live loaded directly into double-lined dump trucks and transported off-site for disposal at the Seneca Meadows Landfill.

3.6.3 Tank Metal Scrap

A total of four (4) steel ASTs were dismantled and removed from SEAD 50/54. The steel debris from the dismantled sections of the ASTs was transported off-site for disposal at Seneca Iron and Metal Company on 2 December 2002. A letter of destruction dated 27 February 2003, was acquired from Seneca Iron and Metal Company. A copy of the letter is included in Appendix I.

3.7 TASK 7 - SITE RESTORATION

Due to the frozen soil conditions encountered at the site during February 2003, WESTON was not able to grade and/or seed the site. However, WESTON will remobilize the site in Spring 2004 as necessary to grade only those excavation sidewalls that are deemed necessary by SEDA and USACE as limited by future use requirements at the site. Where necessary, this may include sloping out the existing sidewalls to allow for proper drainage control. In addition, any disturbed areas will be seeded with a native rye grass mix (or other mix approved by USACE). Erosion and sedimentation controls will remain in place until directed otherwise by USACE.

3.8 TASK 8 - DEMOBILIZATION

Upon completion of soil removal activities, USACE inspected the site with SEDA on 24 February 2003, to ensure that that site limits were completed in accordance with the project objectives. Since the clearing, tank removal, excavation, sampling, and T&D efforts were performed intermittently over the four month period between 11 November 2002 and 3 March 2003, equipment was demobilized off-site in a phased manner following completion of each activity. Final demobilization was performed on 3 March 2003 following completion of T&D activities.

3.9 CONCLUSION

This final report documents completion of the metals and PAH removal from the SEAD 50/54 SWMU in accordance with the WESTON *Final Task Work Plan* dated November 2002 which was prepared in accordance with the Parsons Action Memorandum. During the TCRA, WESTON removed four ASTs from the SEAD 50/54 site, removed sediments from the Area 7 drainage ditch, and excavated Areas 1 through 6 to the limits defined in the *Final Action Memorandum and Decision Document, Time-Critical Removal Actions, Four Metals Sites (SWMU's SEAD-24, 50/54, and 67)* (Parsons, August 2002) to a minimum depth of 6 inches to eliminate or reduce residual contaminant concentrations, and disposed of all the soils off-site.

Through confirmatory sampling, Since the 11 targeted source removal locations as identified in the ESI, have been delineated through confirmatory sampling to the vertical and horizontal

extents required and removed of all contamination, it is expected that the resulting potential threat to the environment and public has been eliminated through source reduction and removal efforts completed to date. As a result, it is recommended that USACE, SEDA, and NYSDEC re-evaluate this site for closure and/or transfer status.

SECTION 4

REFERENCES

4. REFERENCES

New York State Department of Environmental Conservation (NYSDEC) *Technical and Administrative Guidance Memorandum No. 4046, Determination of Soil Cleanup Objectives and Cleanup Levels*, January 1994.

U.S. Army Corps of Engineers (USACE), Omaha District, *Final Scope of Work for Rapid Response Action – Metal Sites – SEADs 24, 50/54, & 67, Seneca Army Depot, Romulus, NY*, 30 September 2002.

Parsons Engineering (Parsons), *Final Action Memorandum and Decision Document, Time-Critical Removal Actions, Four Metals Sites (SWMU's SEAD-24, 50/54, and 67)*, August 2002.

U.S. Army Corps of Engineers (USACE), *USACE Requirements for the Preparation of Sampling and Analysis Plans*, EM-200-1-3, (1994).

U.S. Army Corps of Engineers (USACE), *Safety and Health Requirements Manual*, EM 385-1-1, September 1996.

United States Environmental Protection Agency (EPA), *Management of Remediation Waste Under RCRA*, EPA530–F–98–026, October 1998.

Weston Solutions, Inc. (WESTON), *Final Task Work Plan*, November 2002

APPENDIX A

MEETING/DISCUSSION NOTES

AGENDA GUIDE FOR PRECONSTRUCTION CONFERENCES RAPID RESPONSE AND IMMEDIATE CONTRACTS.

Date: 12 Nov 2002'

Contract No: DACA45-98-D-0004
Task Order No: #0035
Project: SEAD's 24, 50/54 & 67
Location: Seneca Army Depot
Contractor: Weston Solutions, Inc

1. INTRODUCTION AND ORGANIZATION
   - A. Introduction of Attendees
     1. Example of attendees: User, Federal EPA, State EPA, Local Hazmat Team, Fire Dept., and hospital, Local Corp of Engineers, DPW, Etc.
   - B. Organization of Area Office and District
   - C. Function and responsibilities of the Area Office and District
   - D. Authority of Field Representative
     1. Cost Plus projects
     2. Firm Fixed or Unit Price projects
   - E. Authority of Area Engineer
   - F. Contracting Officer

2. RELATIONS WITH USING SERVICE
   - A. Coordination and cooperation
   - B. Base or Private access and permits if applicable
   - C. Vehicle passes
   - D. Employees badges
   - E. Permits and who is responsible for obtaining
     1. State and Federal, signing of Profiles, Manifests, Bill of Lading, Digging Permits, Hot Work Permits, etc.
   - F. Traffic control and limitations
   - G. Security and Base restrictions
   - H. Fire protection and first aid
   - I. Utility service
   - J. Designated Union accesses

3. SPECIALTIES
   - A. Field office requirements
   - B. Operations and storage areas
   - C. Parking
   - D. Access roads to project site
   - E. Protection of existing vegetation, structures, equipment, utilities, etc.
   - F. Disposal areas
   - G. Salvaged material and equipment
   - H. Property purchased during project

4. SAFETY
   A. Corps of Engineers policy - Safety is the first concern
   B. Review "Accident Prevention" clause
   C. Review "Special Safety Provisions"
   D. Development and enforcement of safety program
   E. Phase Safety Plan
   F. Work stoppage to correct safety violations
   G. Distribute and review safety handbook (stress the following):
      1. Safety indoctrination of employees
      2. 40 Hr. training and certification on site
      3. Medical and first aid requirements
         a. Personnel on-site are trained in First Aid and CPR and have a current card from the Red Cross
         b. Location and route to hospital
      4. Daily tool box safety meeting
      5. Accident reporting
      6. Sanitation facilities
      7. Personal protective apparel
      8. Housekeeping
      9. Lighting
      10. Fire protection
      11. Shoring
      12. Ramps. Scaffolding. Platforms and Ladders
      13. All testing equipment will be inspected and calibrated
      14. Mechanical and fiscal inspection of equipment
      15. Rollover protection. seat belts and back up alarms
      16. Crane test and operator qualifications
      17. Traffic control
      18. Radiological requirements and permits
      19. Proper storage and labeling of hazardous material
      20. Confined space entry
      21. Grounding
      22. Sampling and testing

5. SUBMITTALS
   A. Environmental protection plan
   B. Contingency plan
   C. Submittal register
   D. Category I and II shop drawings. samples. profiles. manifest and certificates
   E. Buy American Act
   F. Equipment and material priority rating and expediting
   G. O&M manuals - stress early submittals
   H. As-built drawings - maintain up to date set
   I. Spare parts. installed equipment list and keys
   J. Equipment operational tests and results
   K. Property management real and consumable. forms turned in at end of project
   L. Transfer of real property....1354's

10. CONTRACTOR'S STATEMENT
    A. Responsible representative at job site
    B. Responsible representative at home
    C. Quality control person
    D. Authorities of representatives
    E. Plan of operation

11. DISCUSSION
    A. Critical items
    B. Problem areas
    C. Questions

12. CONCLUSIONS
    A. Follow up meetings
    B. Satisfy QA/QC mutual understanding conference (?)

FILE COPY

Preconstruction Meeting –Conference Call
Sitework Services
Weston Solutions & L. M. Sessler Wrecking

Conference Call Attendees:

Weston Solutions (Chris Henry – Operations Manager, Chris Kane – Project Manager, Nick LaCava – Procurement Administrator)and

L.M. Sessler Wrecking (Craig Sessler – Operations Manager, Jeff Ignazsak – Site Manager)

Meeting Time: 1:30 PM (EST)

Agenda:

1) Site Background Summary
2) Limits of Work
3) Discussion and/or Clarification of Scope/Bid Items
4) Option Items
5) Coordination
6) Safety
7) Notifications
8) Submittals
9) Schedule Clarifications
   - -Holidays (1/2 day on 12/24 and 12/26 to be worked)
   - -SEDA Shutdowns (12/6 also observed)
   - -Work shift/hours of operation (M-Fr. - 6:00 AM to 4:30 PM)
10) Billing
11) Payrolls
12) Other

Weston Solutions, Inc.
Seneca Army Depot Activity
Romulus, New York
Laboratory Job Opening Meeting Agenda
STL

A. Shipping Procedures

1. Bottle Orders
   a. Notifications(Verbal, written, fax)
   b. STL/WESTON Points of Contact
   c. Available Inventory, shipping TAT

2. Sample Shipment Specifics
   a. Notification requirements to STL
   b. Special Requirements on COC?
   c. Saturday Delivery procedures (If applicable)
   d. Tracking Issues
   e. Shipping destination for each analyte
   f. Site Contacts

B. Laboratory Procedures

1. Turn around time's
   a. Definition
   b. TAT requirements in RFQ. Penalty for late deliverables
   c. Recognized Holiday's

2. Data Reporting
   a. Preliminary Data
   b. Electronic deliverables
   c. Final package
      1. Destination (Mr. Christopher G. Kane)

C. Procurement

1. WESTON's Billing Procedures
   a. Payment Period is Net 45-Days
   b. Invoice Attention
      1. Where – 1 Wall Street Manchester, NH 03101
      2. Who – Ms. Cathy Tremblay

2. STL's Billing Procedures
   a. Point of Contact
   b. Invoice Issues

1. Final data packages must contain COC's
2. Parameters to be billed based on PO line items
3. Late parameters to be flagged
4. Cross reference invoice number on order number

3. Technical Information
   a. Name and point of contact for sub-tier labs
   b. Lab SOP's (electronic copy)
   c. Reporting Limits
   d. EDD Format

D. Other

1. Weston Solutions to provide STL with Final CSAP and sampling schedule
2. SOW issues

APPENDIX B

ASBESTOS-CONTAINING MATERIAL NOTIFICATIONS

APPENDIX B

ASBESTOS-CONTAINING MATERIAL NOTIFICATIONS

To be submitted under a separate cover.

PHOTO DOCUMENTATION

SEAD 50/54

1. AREA 1 – EXCAVATION TO A DEPTH OF 6-INCHES, VIEWING EAST (11 NOVEMBER 2002)
2. AREA 1 – EXISITNG SCHIST LAYER, PLACED IN EVENLY SPACED ROWS, PRESUMED TO HAVE BEEN USED AS SUB-BASE FOR TANKS OR USED AS ROAD MATERIAL (18 NOVEMBER 2002)
3. AREA 1 – EXCAVATION, VIEWING WEST ALONG PAVED HAUL ROAD (23 NOVEMBER 2002)
4. AREA 1 – EXCAVATION, VIEWING NORTHWEST, STOCKPILED SOILS COVERED WITH POLYETHYLENE SHEETING IN THE BACKGROUND (23 NOVEMBER 2002)
5. AREA 2 – EXCAVATION, VIEWING NORTHWEST (21 NOVEMBER 2003)
6. 507,000-GAL ABOVE GROUND STORAGE TANK BEING DISMANTLED WITH HYDRAULIC SHEARS (23 NOVEMBER 2002)
7. 507,000-GAL ABOVE GROUND STORAGE TANK BEING DISMANTLED WITH HYDRAULIC SHEARS (23 NOVEMBER 2002)
8. 507,000-GAL ABOVE GROUND STORAGE TANK FOLDED INTO MANAGEABLE SECTIONS (23 NOVEMBER 2002)
9. RELOCATING 9,000-GAL ABOVE GROUND STORAGE TANK TO DISMANTLING AREA (23 NOVEMBER 2002)
10. FOOTPRINT OF 9,000-GAL ABOVE GROUND STORGAE TANK
11. STEEL FROM ABOVE GROUND STORAGE TANKS ROLLED UP FOR T&D (23 NOVEMBER 2002)
12. AREA 7 – VIEWING NORTH ALONG THE EXCAVATION LIMITS (22 NOVEMBER 2002)

APPENDIX C

PHOTOS

PHOTO DOCUMENTATION
SEAD 50/54

1.) AREA 1 – EXCAVATION TO A DEPTH OF 6-INCHES, VIEWING EAST

2.) AREA 1 – EXISTING SCHIST LAYER, PLACED IN EVENLY SPACED ROWS, PRESUMED TO HAVE BEEN USED AS SUB-BASE FOR TANKS OR USED AS ROAD MATERIAL

3.) AREA 1 – EXCAVATION, VIEWING WEST ALONG PAVED HAUL ROAD

4.) AREA 1 – EXCAVATION, VIEWING NORTHWEST, STOCKPILED SOILS COVERED WITH POLYETHYLENE SHEETING IN BACKGROUND

PHOTO DOCUMENTATION
SEAD 50/54

5.) AREA 2 – EXCAVATION, VIEWING NORTHWEST

6.) 507,000-GAL ABOVE GROUND STORAGE TANK BEING DISMANTLED WITH HYDRAULIC SHEARS

7.) 507,000-GAL ABOVE GROUND STORAGE TANK BEING DISMANTLED WITH HYDRAULIC SHEARS

8.) 507,000-GAL ABOVE GROUND STORAGE TANK FOLDED INTO MANAGEABLE SECTIONS

PHOTO DOCUMENTATION
SEAD 50/54

9.) RELOCATING 9,000-GAL ABOVE GROUND STROAGE TANKS TO DISMANTLING AREA

10.) FOOTPRINT OF 9,000-GAL ABOVE GROUND STORAGE TANK

11.) STEEL FROM ABOVE GROUND STORAGE TANKS ROLLED UP FOR T&D

12.) AREA 7 – VIEWING NORTH ALONG THE EXCAVATION LIMITS

APPENDIX D

ASBESTOS-CONTAINING MATERIAL – AIR AND BULK POLARIZED LIGHT MICROSCOPY SOIL DATA

ENVIRONMENTAL
COMPLIANCE
MANAGEMENT
CORPORATION

JAN 0 9 2003

December 19, 2002

Chris Kane
Weston Solutions, Inc.
One Wall Street, Suite 201
Manchester, NH 03101-1501

RE: Laboratory Analysis Reports
Seneca Army Depot
ECMC Project # 02445

Dear Mr. Kane:

Attached are the results of the Laboratory Analysis performed by Environmental Compliance Management Corp. for air samples collected at the above referenced project. These reports represent samples collected on November 21, 2002 and December 4, 2002. The results relate only to the analyses performed by Environmental Compliance Management Corp. This report shall not be reproduced except in full, without the written approval of Environmental Compliance Management Corp.

In addition to the air sampling and analysis, ECMC Building Inspector George Fischer, also collected soil bulk samples on November 21, 2002 and December 4, 2002. The samples were submitted to Scientific Laboratories, Inc. for asbestos content analysis. No asbestos was detected in any of the bulk samples. The Laboratory Analysis Reports are attached.

Should you have any questions or concerns regarding the information presented herein, please do not hesitate to contact us at your convenience.

Sincerely,

Michael D. Wells
Technical Director

Attachment

ENVIRONMENTAL COMPLIANCE MANAGEMENT CORPORATION

AIR SAMPLE ANALYSIS REPORT

Client: Weston Solutions, Inc.

Location: Seneca Army Depot

Project #: 02445

Date Sampled: November 21, 2002
Date Received: November 21, 2002
Date Analyzed: November 22, 2002

Lab ID #	Client Sample #	Location	Type	Volume (Liters)	Conc. (Fibers/cc)
73733	021121001	Sead 50/54 North – A5 PM AB 001 – FS	E	1080	<0.0045
73734	021121002	Sead 50/54 South – A5 PM AB 002 – FS	E	1080	<0.0045
73735	021121003	Sead 50/54 East – A5 PM AB 003 – FS	E	1080	<0.0045
73736	021121004	Sead 50/54 West – A5 PM AB 004 - FS	E	1080	<0.0045
73737	021121005	Field Blank	B	0	*
73738	021121006	Field Blank	B	0	*

SAMPLE TYPE KEY

B = Field Blank
P = OSHA TWA
BK = Background
EX = OSHA Excursion
PA = Pre-Abatement
W = Work in Progress
F = Final Clearance

NYS - DOH ELAP #: 11492
Analytical Method: NIOSH 7400
Microscope Utilized: Olympus CHT
Relative Standard Deviation (Sr) = 0.40
(<) = Less than limit of Detection
NA = Not Analyzed due to Material Overloading
D = Damaged Filter or Membrane
VOID = Sampling Pump Malfunction
NS = Not Specified
(*) = Acceptable Field Blank

Michael D. Wells
Technical Director

12/19/02
Date

ECMC certifies that to the best of our knowledge, these test results meet all of the pertinent requirements of NELAC.

Note: 1. Phase Contrast Microscopy is not specific for airborne asbestos fibers.
2. Samples will be maintained for 90 days. Thereafter, samples will be packaged and shipped for disposal. Please notify ECMC in writing if you would like your samples returned.

ENVIRONMENTAL
COMPLIANCE
MANAGEMENT
CORPORATION

AIR SAMPLE ANALYSIS REPORT

Client: Weston Solutions, Inc.

Location: Seneca Army Depot

Project #: 02445

Date Sampled: December 4, 2002
Date Received: December 5, 2002
Date Analyzed: December 5, 2002

Lab ID #	Client Sample #	Location	Type	Volume (Liters)	Conc. (Fibers/cc)
73987	021204001	Sead 50/54 North – A5 PM AB 005 – FS	E	2390	<0.0021
73988	021204002	Sead 50/54 South – A5 PM AB 006 – FS	E	2380	<0.0021
73989	021204003	Sead 50/54 East – A5 PM AB 007 – FS	E	2380	<0.0021
73990	021204004	Sead 50/54 West – A5 PM AB 008 - FS	E	2400	<0.0020
73991	021204005	Field Blank	B	0	*
73992	021204006	Field Blank	B	0	*

SAMPLE TYPE KEY

B = Field Blank
P = OSHA TWA
BK = Background
EX = OSHA Excursion
PA = Pre-Abatement
W = Work in Progress
F = Final Clearance

NYS - DOH ELAP #: 11492
Analytical Method: NIOSH 7400
Microscope Utilized: Olympus CHT
Relative Standard Deviation (Sr) = 0.40
(<) = Less than limit of Detection
NA = Not Analyzed due to Material Overloading
D = Damaged Filter or Membrane
VOID = Sampling Pump Malfunction
NS = Not Specified
(*) = Acceptable Field Blank

Michael D. Wells
Technical Director

12/19/02
Date

ECMC certifies that to the best of our knowledge, these test results meet all of the pertinent requirements of NELAC.

Note: 1. Phase Contrast Microscopy is not specific for airborne asbestos fibers.
2. Samples will be maintained for 90 days. Thereafter, samples will be packaged and shipped for disposal. Please notify ECMC in writing if you would like your samples returned.

SCILAB

SCIENTIFIC LABORATORIES, INC.

117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

November 22, 2002

Environmental Compliance Management Corp.
Attn: Chuck Kirch
115 Genesee Street
P. O. Box 86
Chittenango, NY 13037

RE: Environmental Compliance Management Corp.
Job Number 202113167
P.O. # 02-445
02-445; Weston Corp.; Seneca Army Depot

Dear Chuck Kirch:

Enclosed are the results for PLM asbestos analysis of the following Environmental Compliance Management Corp. samples received at SCILAB on Friday, November 22, 2002, for a 24 hour turnaround:

02-445-001, 02-445-002, 02-445-003, 02-445-004, 02-445-005, 02-445-006, 02-445-007, 02-445-008, 02-445-009, 02-445-010, 02-445-011, 02-445-012, 02-445-013, 02-445-014, 02-445-015, 02-445-016, 02-445-017, 02-445-018, 02-445-019, 02-445-020, 02-445-021, 02-445-022, 02-445-023, 02-445-024, 02-445-025

The 25 samples contained in zip lock bag were shipped to SciLab via Federal Express. These samples were prepared and analyzed according to the EPA Interim Method (EPA 600/M4-82-020 per 40 CFR 763, subpt F, App. A). The required analytical information, analysis results, analyst signature and laboratory identification is contained in the Analyst's Report.

This report relates ONLY to the sample analysis expressed as percent asbestos. SciLab assumes no responsibility for customer supplied data such as "sample type", "location", or "area sampled". This report must not be used to claim product endorsement by SciLab, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology Accreditation requirements, mandates that this report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in revelant footnotes.

SciLab appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Lance Tuckruskye
QA/QC Compliance Officer

SCILAB

SCIENTIFIC LABORATORIES, INC.
117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

PLM Bulk Asbestos Report

Environmental Compliance
Management Corp.
Attn: Chuck Kirch
115 Genesee Street
P. O. Box 86
Chittenango, NY 13037

Date Received 11/22/2002 **SciLab Job No.** 202113167
Date Examined 11/22/2002 **P.O. #** 02-445
ELAP Number 11480 **Page** 1 **of** 6
RE: 02-445; Weston Corp.; Seneca Army Depot

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
02-445-001	202113167-01	*No*	NAD
	Location: SEAD 50/54 FX A5 AB 001 FS		
	Description: Black, Heterogeneous, Soil		
	Asbestos Types:		
	Other Material: Cellulose 4. %, Non-fibrous 96. %		
02-445-002	202113167-02	*No*	NAD
	Location: SEAD 50/54 FX A5 AB 002 FS		
	Description: Black, Heterogeneous, Soil		
	Asbestos Types:		
	Other Material: Cellulose 10. %, Non-fibrous 90. %		
02-445-003	202113167-03	*No*	NAD
	Location: SEAD 50/54 FX A5 AB 003 FS		
	Description: Black, Heterogeneous, Soil		
	Asbestos Types:		
	Other Material: Cellulose 7. %, Non-fibrous 93. %		
02-445-004	202113167-04	*No*	NAD
	Location: SEAD 50/54 FX A5 AB 004 FS		
	Description: Black, Heterogeneous, Soil		
	Asbestos Types:		
	Other Material: Cellulose 5. %, Non-fibrous 95. %		
02-445-005	202113167-05	*No*	NAD
	Location: SEAD 50/54 FX A5 AB 005 FS		
	Description: Black, Heterogeneous, Soil		
	Asbestos Types:		
	Other Material: Cellulose 7. %, Non-fibrous 93. %		

SCILAB

SCIENTIFIC LABORATORIES, INC.

117 EAST 30TH STREET
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PLM Bulk Asbestos Report

Environmental Compliance
Management Corp.
Attn: Chuck Kirch
115 Genesee Street
P. O. Box 86
Chittenango, NY 13037

Date Received 11/22/2002 **SciLab Job No.** 202113167
Date Examined 11/22/2002 **P.O. #** 02-445
ELAP Number 11480 **Page** 2 **of** 6
RE: 02-445; Weston Corp.; Seneca Army Depot

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
02-445-006	202113167-06	*No*	NAD

Location: SEAD 50/54 FX A5 AB 006 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 3. %, Non-fibrous 97. %

02-445-007	202113167-07	*No*	NAD

Location: SEAD 50/54 FX A5 AB 007 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 8. %, Non-fibrous 92. %

02-445-008	202113167-08	*No*	NAD

Location: SEAD 50/54 FX A5 AB 008 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 10. %, Non-fibrous 90. %

02-445-009	202113167-09	*No*	NAD

Location: SEAD 50/54 FX A5 AB 009 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 4. %, Non-fibrous 96. %

02-445-010	202113167-10	*No*	NAD

Location: SEAD 50/54 FX A5 AB 010 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 4. %, Non-fibrous 96. %

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SCIENTIFIC LABORATORIES, INC.

117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

PLM Bulk Asbestos Report

Environmental Compliance
Management Corp.
Attn: Chuck Kirch
115 Genesee Street
P. O. Box 86
Chittenango, NY 13037

Date Received 11/22/2002 **SciLab Job No.** 202113167
Date Examined 11/22/2002 **P.O. #** 02-445
ELAP Number 11480 **Page** 3 **of** 6
RE: 02-445; Weston Corp.; Seneca Army Depot

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
02-445-011	202113167-11	*No*	NAD

Location: SEAD 50/54 FX A5 AB 011 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 5. %, Non-fibrous 95. %

02-445-012	202113167-12	*No*	NAD

Location: SEAD 50/54 FX A5 AB 012 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 10. %, Non-fibrous 90. %

02-445-013	202113167-13	*No*	NAD

Location: SEAD 50/54 FX A5 AB 013 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 10. %, Non-fibrous 90. %

02-445-014	202113167-14	*No*	NAD

Location: SEAD 50/54 FX A5 AB 014 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 2. %, Non-fibrous 98. %

02-445-015	202113167-15	*No*	NAD

Location: SEAD 50/54 FX A5 AB 015 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 4. %, Non-fibrous 96. %

SCILAB

SCIENTIFIC LABORATORIES, INC.

117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

PLM Bulk Asbestos Report

Environmental Compliance
Management Corp.
Attn: Chuck Kirch
115 Genesee Street
P. O. Box 86
Chittenango, NY 13037

Date Received 11/22/2002 **SciLab Job No.** 202113167
Date Examined 11/22/2002 **P.O. #** 02-445
ELAP Number 11480 **Page** 4 **of** 6
RE: 02-445; Weston Corp.; Seneca Army Depot

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
02-445-016	202113167-16	*No*	NAD

Location: SEAD 50/54 FX A5 AB 016 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 5. %, Non-fibrous 95. %

02-445-017	202113167-17	*No*	NAD

Location: SEAD 50/54 FX A5 AB 017 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 4. %, Non-fibrous 96. %

02-445-018	202113167-18	*No*	NAD

Location: SEAD 50/54 FX A5 AB 018 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 5. %, Non-fibrous 95. %

02-445-019	202113167-19	*No*	NAD

Location: SEAD 50/54 FX A5 AB 019 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 7. %, Non-fibrous 93. %

02-445-020	202113167-20	*No*	NAD

Location: SEAD 50/54 FX A5 AB 020 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 10. %, Non-fibrous 90. %

SCILAB

SCIENTIFIC LABORATORIES, INC.

117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

PLM Bulk Asbestos Report

Environmental Compliance
Management Corp.
Attn: Chuck Kirch
115 Genesee Street
P. O. Box 86
Chittenango, NY 13037

Date Received 11/22/2002 **SciLab Job No.** 202113167
Date Examined 11/22/2002 **P.O. #** 02-445
ELAP Number 11480 **Page** 5 **of** 6
RE: 02-445; Weston Corp.; Seneca Army Depot

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
02-445-021	202113167-21	*No*	NAD

Location: SEAD 50/54 FX A5 AB 021 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 7. %, Non-fibrous 93. %

02-445-022	202113167-22	*No*	NAD

Location: SEAD 50/54 FX A5 AB 022 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 7. %, Non-fibrous 93. %

02-445-023	202113167-23	*No*	NAD

Location: SEAD 50/54 FX A5 AB 023 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 6. %, Non-fibrous 94. %

02-445-024	202113167-24	*No*	NAD

Location: SEAD 50/54 FX A5 AB 024 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 2. %, Non-fibrous 98. %

02-445-025	202113167-25	*No*	NAD

Location: SEAD 50/54 FX A5 AB 025 FS

Description: Black, Heterogeneous, Soil
Asbestos Types:
Other Material: Cellulose 2. %, Non-fibrous 98. %

SCILAB

SCIENTIFIC LABORATORIES, INC.

117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

PLM Bulk Asbestos Report

Environmental Compliance
Management Corp.
Attn: Chuck Kirch
115 Genesee Street
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Date Received 11/22/2002 **SciLab Job No.** 202113167
Date Examined 11/22/2002 **P.O. #** 02-445
ELAP Number 11480 **Page** 6 **of** 6
RE: 02-445; Weston Corp.; Seneca Army Depot

Reporting Notes:

Analyzed by: John P. Koubiadis

*NAD/NSD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200546-0) and ELAP PLM Analysis Protocol 198.1 for New York samples (NYSDOH ELAP Lab # 11480); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. AIHA# 102843; VT Cert# AL016055

Reviewed By:

ENVIRONMENTAL COMPLIANCE MANAGEMENT CORPORATION

Client: Weston Corp. (25)

Survey Location: Seneca Army Depot

Project #: 02-445

Material Description: Soil

Material Category: MISC | **Homogenous Area #:** NA

Field Identification #:	Location: Floor:	Room #	Description:	Functional Space #:
02-445-001 ✓	SEAD·50/54·FX·A5·AB·001·FS			NA
02-445-002 ✓			002	
02-445-003 ✓			003	
02-445-004 ✓			004	
02-445-005 ✓			005	
02-445-006 ✓			006	
02-445-007 ✓			007	

-20211367

NOB? Yes (No)

Material Description: Soil

Material Category: MISC | **Homogenous Area #:** NA

Field Identification #:	Location: Floor:	Room #	Description:	Functional Space #:
02-445-008 ✓	SEAD·50/54·FX·A5·AB·008·FS			NA
02-445-009 ✓			009	
02-445-010 ✓			010	
02-445-011 ✓			011	
02-445-012 ✓			012	
02-445-013 ✓			013	
02-445-014 ✓			014	

NOB? Yes (No)

Material Description: Soil

Material Category: MISC | **Homogenous Area #:** NA

Field Identification #:	Location: Floor:	Room #	Description:	Functional Space #:
02-445-015 ✓	SEAD·50/54·FX·A5·AB·015·FS			NA
02-445-016 ✓			016	
02-445-017 ✓			017	
02-445-018 ✓			018	
02-445-019 ✓			019	
02-445-020 ✓			020	
02-445-021 ✓			021	

NOB? Yes (No)

Collected By: K. Fischer	Date: Nov. 21, 2002	Time: 10:20	# of Samples: 21/25	Turnaround Time: 24
Handled By: FedEx	Date: Nov. 21, 2002	Time: 15:00	# of Samples: 21/25	Turnaround Time: 24
Handled By:	Date:	Time:	# of Samples: 1	Turnaround Time:
Received By Lab:	Date:	Time:	# of Samples: 1	Turnaround Time:

ENVIRONMENTAL COMPLIANCE MANAGEMENT CORPORATION

Client: Weston Corp.

Survey Location: Seneca Army Depot

Project #: 02-445

Material Description: Soil

Material Category: Misc | Homogenous Area #: n/a

Field Identification #:	Location: Floor:	Room #	Description:	Functional Space #:
02-445-022 ✓	SEAD·50/54·FX·AS·AB·022·FS			NA
02-445-023 ✓	↓	↓	023· ↓	↓
02-445-024 ✓	↓	↓	024· ↓	↓
02-445-025 ✓	↓	↓	025· →	↓
~~02-445-026~~				
~~02-445-027~~				
~~02-445-028~~				

-20211181167

NOB? Yes (No)

Material Description: Soil

Material Category: | Homogenous Area #:

Field Identification #:	Location: Floor:	Room #	Description:	Functional Space #:
~~02-445-029~~				
~~02-445-030~~				
~~02-445-031~~				
~~02-445-032~~				
~~02-445-0~~				
~~02-445-0~~				
~~02-445-0~~				

NOB? Yes No

Material Description: Soil

Material Category: | Homogenous Area #:

Field Identification #:	Location: Floor:	Room #	Description:	Functional Space #:
~~02-445-0~~				
~~02-445-0~~				
~~02-445-0~~				
~~02-445-0~~				
~~02-445-0~~				
~~02-445-0~~				
~~02-445-0~~				

NOB? Yes No

Collected By: G Fischer	Date: Nov. 21, 2002	Time: 10:20	# of Samples: 4 125	Turnaround Time: 24
Handled By: FedEx	Date: Nov. 21, 2002	Time: 15:00	# of Samples: 4 125	Turnaround Time: 24
Handled By:	Date:	Time:	# of Samples: 1	Turnaround Time
Received By Lab:	Date:	Time:	# of Samples: 1	Turnaround Time:

SCILAB

SCIENTIFIC LABORATORIES, INC.

117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

December 5, 2002

Environmental Compliance Management Corp.
Attn: Chuck Kirch
115 Genesee Street
P. O. Box 86
Chittenango, NY 13037

RE: Environmental Compliance Management Corp.
Job Number 202121350
P.O. # 02-445
02-445; Weston Corp.; Seneca Army Depot, Area #5

Dear Chuck Kirch:

Enclosed are the results for PLM asbestos analysis of the following Environmental Compliance Management Corp. samples received at SCILAB on Thursday, December 05, 2002, for a 24 hour turnaround:

02-445-026

The 1 samples contained in zip lock bag were shipped to SciLab via Federal Express. These samples were prepared and analyzed according to the EPA Interim Method (EPA 600/M4-82-020 per 40 CFR 763, subpt F, App. A). The required analytical information, analysis results, analyst signature and laboratory identification is contained in the Analyst's Report.

This report relates ONLY to the sample analysis expressed as percent asbestos. SciLab assumes no responsibility for customer supplied data such as "sample type", "location", or "area sampled". This report must not be used to claim product endorsement by SciLab, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology Accreditation requirements, mandates that this report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in revelant footnotes.

SciLab appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Lance Tuckruskye
QA/QC Compliance Officer

SCILAB

SCIENTIFIC LABORATORIES, INC.

117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

PLM Bulk Asbestos Report

Environmental Compliance
Management Corp.
Attn: Chuck Kirch
115 Genesee Street
P. O. Box 86
Chittenango, NY 13037

Date Received 12/05/2002 **SciLab Job No.** 202121350
Date Examined 12/05/2002 **P.O. #** 02-445
ELAP Number 11480 **Page** 1 **of** 1
RE: 02-445; Weston Corp.; Seneca Army Depot, Area #5

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
02-445-026	202121350-01	*No*	NAD

Location: SEA5 50/54. FX.AS.AB.026.FS

Description: Brown, Homogeneous, Bulk Material
Asbestos Types:
Other Material: Cellulose 1. %, Non-fibrous 99. %

Reporting Notes:

Analyzed by: John P. Koubiadis

*NAD/NSD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200546-0) and ELAP PLM Analysis Protocol 198.1 for New York samples (NYSDOH ELAP Lab # 11480); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. AIHA# 102843; VT Cert# AL016055

Reviewed By:

ENVIRONMENTAL COMPLIANCE MANAGEMENT CORPORATION

Client: Weston Corp. -202121350

Survey Location: Seneca Army Depot Area #5
Project #: 02-445

Material Description:

Material Category: | **Homogenous Area #:**

Field Identification #:	Location: Floor: Room # Description:	Functional Space #:
02445-026	SEAD 50/54 · FX. AS. AB · 026 · FS	
	* 24hr PLM for Asbestos *	

NOB? Yes (No)

Material Description:

Material Category: | **Homogenous Area #:**

Field Identification #:	Location: Floor: Room # Description:	Functional Space #:

NOB? Yes No

Material Description:

Material Category: | **Homogenous Area #:**

Field Identification #:	Location: Floor: Room # Description:	Functional Space #:

NOB? Yes No

Collected By: G. Fischer	Date: Dec. 4, 2002	Time: 12:00	# of Samples: 1 11	Turnaround Time: 24
Handled By: FedEx	Date: Dec. 4, 2002	Time: 14:15	# of Samples: 1 1 1	Turnaround Time: 24
Handled By:	Date:	Time:	# of Samples: 1	Turnaround Time:
Received By Lab: CJ2	Date: 12/5/02	Time: 0935	# of Samples: 1	Turnaround Time:

Certificate of Training

This Certifies That

GEORGE FISCHER
095-58-3275

Has satisfactorily completed the requirements for

OSHA 8HR HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE REFRESHER

developed pursuant to

Regulations promulgated by the Occupational Safety and Health Administration

And is hereby award this certificate

by

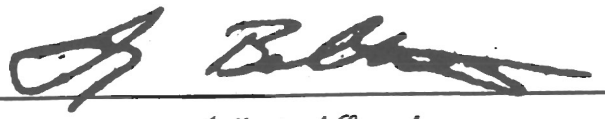
R O E Environmental, Inc.

Syracuse, New York

on this 29th *day of* MARCH *20*2002

095-58-3275-2181A

Certificate Number



Authorized Signature

STATE OF NEW YORK - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
License and Certificate Unit
BUILDING 12, Room 161
STATE CAMPUS
ALBANY, NY 12240

ASBESTOS HANDLING LICENSE

LICENSE NUMBER: 99-1110
DATE OF ISSUE: 12/11/01
EXPIRATION DATE: 12/31/02

Contractor: Environmental Compliance Management Corp.

Address: 115 Genesee Street
Chittenango, NY 13037

Duly Authorized Representative: Charles Kirch

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. The licensee verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Richard Cucolo, Director
FOR THE COMMISSIONER OF LABOR

SH 432 (10-00)

ENVIRONMENTAL
COMPLIANCE
MANAGEMENT
CORPORATION

P.O. Box 86, 115 Genesee Street
Chittenango, New York 13037
(315) 687-9435
Fax: 687-7284

NEW YORK STATE DEPARTMENT OF LABOR ASBESTOS HANDLING CERTIFICATE (DOSH 442)

MUST BE CARRIED ON ASBESTOS PROJECTS

CERTIFICATE NUMBER	AH 91-03997
EXPIRES	
SOCIAL SECURITY NUMBER	XXX-XX-3275
EYES: BLU	HAIR: BRO
WEIGHT: 230lbs.	HEIGHT: 6ft. 0in.

ADDRESS CORRESPONDENCE TO:
(include certificate number)
NYS Department of Labor
DOSH - License and Certificate Unit
PO Box 687, New York, NY 10014-0687

0901330

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASSES
C - SAMPLING TECHNICIAN (07/03)
D - INSPECTOR (07/03)
H - PROJECT MONITOR (07/03)

GEORGE A FISCHER
785 FYLER ROAD #36
KIRKVILLE NY 13082

RICHARD CUCOLO, Director - For the Commissioner of Labor

DOSH-442 (01/91)

Industrial Medical Associates, P.C.
961 Canal St., Syracuse, NY 13210-1287 (315) 478-1977 Fax: (315) 475-2909

HAZARDOUS MATERIALS MEDICAL SUITABILITY

George A. Fischer 045383275 — Pre-Employ/Baseline
Employee Name Soc. Sec. # ___ Annual/Periodic
___ Exit
___ Other

The following specific examinations were performed and results are as indicated:

A. Respirator (OSHA Reg. 29 CFR 1910.134, Nu Reg. 0041, ANSI 288.6):

✓ Class 1 - No restriction on respirator use

___ Class 2 - Respirator use restricted as below

Restrictions: _____

_____

___ Class 3 - Respirator use Prohibited

Remarks: _____

_____

B. Hazardous Waste (OSHA Reg. 29 CFR 1910.120(f)):

✓ Qualified ___ Unqualified

Summary/Recommendations:

✓ A. The examination indicates no significant medical impairment and the above named employee can be assigned any work consistent with skills and training. He/she has no detected medical condition which would increase his/her risk of material health impairment from hazardous waste operations or emergency response.

___ B. Suggested restrictions on work activities or exposures:

_____

___ C. Other:

He/she has been informed of the results of the examination and any medical conditions which may require further examination or treatment.

11/26/01 MIGUEL MARTINEZ, M.D. [signature]
(Date of exam) (Name of examining doctor) (Signature of examining doctor)

Industrial Medical Associates, P.C.
961 Canal St., Syracuse, NY 13210-1287 (315) 478-1977 Fax: (315) 475-2909

HAZARDOUS MATERIALS MEDICAL SUITABILITY

George Fischer — Employee Name
095-58-3275 — Soc. Sec. #

- ✓ Pre-Employ/Baseline
- Annual/Periodic
- Exit
- Other

The following specific examinations were performed and results are as indicated:

A. Respirator (OSHA Reg. 29 CFR 1910.134, Nu Reg. 0041, ANSI 288.6):

- ✓ Class 1 - No restriction on respirator use
- Class 2 - Respirator use restricted as below

  Restrictions: _____
- Class 3 - Respirator use Prohibited

  Remarks: _____

B. Hazardous Waste (OSHA Reg. 29 CFR 1910.120(f)):

- ✓ Qualified
- Unqualified

Summary/Recommendations:

- ✓ A. The examination indicates no significant medical impairment and the above named employee can be assigned any work consistent with skills and training. He/she has no detected medical condition which would increase his/her risk of material health impairment from hazardous waste operations or emergency response.
- B. Suggested restrictions on work activities or exposures: _____
- C. Other:

He/she has been informed of the results of the examination and any medical conditions which may require further examination or treatment.

11/22/02 — (Date of exam)
BRENDA GEORGE, PAC — (Name of examining doctor)
[signature] — (Signature of examining doctor)

APPENDIX E

CONFIRMATORY SURFACE SOIL DATA - TANK LOCATIONS

SEAD 50/54
Confirmatory Surface Soil Data - Tank Locations
Time Critical Removal Action
SENECA Army Depot

Compound	Cleanup Goal[1]	TK-A1-SS-FS		TK-A2-SS-FS		TK-A4-1-SS-FS		TK-A4-SS-1-FS-2		TK-A4-2-SS-FS		TK-A4-SS-2-FS-2		TK-A5-SS-FS	
Metals (mg/Kg)															
Aluminum	19,200	4,450		5,060		5,850				5,230				5,440	
Antimony	5.9	12.1	N	1.2	UN	119.0	N			1.7	BN			18.6	N
Arsenic	8.24	3.3	B	8.4		5.1	B			4.2	B			3.2	B
Barium	300	32		46		48				31				37	
Beryllium	1.1	0.5	U	0.5	U	0.5	U			0.5	U			0.5	U
Cadmium	2.3	1	UN	1	UN	1	UN			1	UN			1	UN
Calcium	120,500	101,000		101,000		93,400				109,000				94,100	
Chromium	29	6	*	8	*	67	*			188	*			10	*
Cobalt	30	4	*	4	*	5	*			5	*			5	*
Copper	29.6	14		30		22				17				21	
Iron	35,550	10,700		11,500		17,900				11,200				14,100	
Lead[2]	400	7	B*	7	B*	538	*	4	B	1,460	*	7		11	*
Magnesium	21,500	54,600		42,500		46,700				56,800				43,200	
Manganese	1,056	615		501		421				425				489	
Mercury	0.1	0.0	U	0.0	U	0.0	U			0.0	B			0.0	U
Nickel	48.9	9		10		19				11				13	
Potassium	2,343	1,570		1,830		2,290				2,130				1,660	
Selenium	2	2	UN	2	UN	2	UN			2	UN			2	UN
Silver	0.763	0.300	U^	0.300	U^	0.300	U^			0.300	U^			0.310	U^
Sodium	170.3	208.0		204.0		240.0				275.0				192.0	
Thallium	0.67	3.00	U	3.00	U	3.00	U			3.00	U			3.10	U
Vanadium	150	9		10		12				10				10	
Zinc	108.9	66.9	N	52.0	N	101.0	N			267.0	N			57.3	N
PAHs (ug/Kg)															
2-Methylnaphthalene	36,400	29	U	29	U	2,800	U	29	U	570	U	31	U	29	U
Acenaphthene	50,000	16	U	15	U	22,000	J	16	U	5,000	J	45	J	15	U
Acenaphthylene	41,000	11	U	11	U	1,100	U	11	U	220	U	12	U	11	U
Anthracene	50,000	12	U	12	U	37,000		12	U	8,200		83	J	12	U
Benzo(a)anthracene	224	16	U	15	U	85,000		16	U	17,000		230	J	15	UM
Benzo(a)pyrene	61	17	U	16	U	59,000		17	U	12,000		140	J	16	UM
Benzo(b)fluoranthene	1,100	39	U	39	U	62,000	M	39	U	13,000	M	170	J	39	UM
Benzo(ghi)perylene	50,000	18	U	18	U	31,000	J	18	U	6,300	J	80	J	18	U
Benzo(k)fluoranthene	1,100	40	U	40	U	62,000	M	40	U	13,000	M	150	J	40	UM
Chrysene	400	18	U	18	U	82,000		18	U	17,000		250	J	18	UM
Dibenzo(a h)anthracene	14	19	U	19	U	15,000	J	19	U	3,000	J	30	JH	19	U
Fluoranthene	50,000	23	U	23	U	170,000		34	J	38,000		500		23	U
Fluorene	50,000	21	U	21	U	16,000	J	21	U	3,700	J	36	J	23	J
Indeno(1 2 3-cd)pyrene	3,200	19	U	19	U	30,000	J	19	U	6,000	J	71	J	19	U
Naphthalene	13,000	33	U	33	U	3,600	J	33	U	1,200	J	35	U	33	U
Phenanthrene	50,000	25	U	25	U	160,000		25	U	35,000		350	J	25	UM
Pyrene	50,000	20	U	20	U	190,000		31	J	39,000		480		20	U

Notes:

1. The Cleanup Goal is based on the NY TAGM No. 4046 Recommended Soil Cleanup Objectives. Values denoted as "SB" in TAGM 4046, were compared with the highlighted values (95th percentile of SEDA Site Background) in lieu of the TAGM "SB" since no background cleanup objectives exist for certain parameters.

2.EPA Risk Based Residential Cleanup Goal for lead

95th percentile of SEDA Site Background

Result Exceeds CleanUp Criteria

mg/kg= milligram per kilogram
µg/kg= microgram per kilogram
B= Compound was found in the blank and sample.
J= Result is less than the Reporting Limit, but greater than or equal to the method detection.
M= Manually integrated compound.
N= Matrix spike (MS)/matrix spike duplicates (MSD): Spike recovery exceeds the upper or lower control limits.
SB= Site Background
TAGM= Technical Administrative Guidance Memorandum
U= Analyte was not detected at or above the reporting limit.
^= Method Blank, Extraction Blank, Medium Level Extraction Blank: Batch Quality Control (QC) is greater than reporting limit.
***=** Laboratory Control Standard, Laboratory Control Standard Duplicate, Continuing Calibration Verification, MS/MSD, Surrogate, Reference Standard: Batch QC exceeds the upper or lower control limits.

APPENDIX F

CONFIRMATORY SOIL DATA SUMMARY (AREAS 1 THROUGH 7)

Analytical Summary for SEAD 50/54 Soil
Time Critical Removal Action
SENECA Army Depot

AREA 1			Floor Samples			Perimeter Samples		
Compound	Cleanup Goal[1]	Total No. of Samples Collected	No. of Samples Collected	No. of Exceedences	Max Result	No. of Samples Collected	No. of Exceedences	Max Result
Metals (mg/Kg)								
Aluminum	19,200	40	36	0	15,900	4	0	15,600
Antimony	5.9	40	36	**1**	7.7	4	**2**	12.2
Arsenic	8.2	286	229	**10**	16.3	57	**4**	9.4
Barium	300	40	36	**1**	337	4	0	121
Beryllium	1.1	40	36	0	0.9	4	0	0.8
Cadmium	2.3	40	36	0	1.4	4	0	1.3
Calcium	120,500	40	36	0	64,300	4	0	59,500
Chromium	29	40	36	0	26	4	0	25
Cobalt	30	40	36	0	24	4	0	15
Copper	30	40	36	0	25	4	**1**	31
Iron	35,550	40	36	0	30,100	4	0	33,700
Lead[2]	400	40	36	0	106	4	0	76
Magnesium	21,500	40	36	0	21,000	4	0	13,800
Manganese	1,056	40	36	**7**	2,510	4	0	840
Mercury	0.1	209	168	0	0.1	41	**2**	0.6
Nickel	48.9	40	36	0	41	4	0	42
Potassium	2,343	40	36	0	2,000	4	**1**	2,790
Selenium	2	40	36	**2**	2	4	0	2
Silver	0.763	40	36	0	0.420	4	0	0.380
Sodium	170.3	40	36	0	110.0	4	0	135.0
Thallium	0.67	40	36	**28**	4.20	4	**13**	3.80
Vanadium	150	40	36	0	30	4	0	25
Zinc	108.9	184	163	**6**	769.0	21	**21**	1,960.0
PAHs (ug/Kg)								
2-Methylnaphthalene	36,400	45	37	0	38	8	0	37
Acenaphthene	50,000	45	37	0	21	8	0	20
Acenaphthylene	41,000	45	37	0	24	8	0	37
Anthracene	50,000	45	37	0	20	8	0	38
Benzo(a)anthracene	224	45	37	0	74	8	0	160
Benzo(a)pyrene	61	45	37	**1**	70	8	**4**	140
Benzo(b)fluoranthene	1,100	45	37	0	53	8	0	140
Benzo(g,h,i)perylene	50,000	45	37	0	34	8	0	120
Benzo(k)fluoranthene	1,100	45	37	0	63	8	0	150
Chrysene	400	45	37	0	79	8	0	180
Dibenzo(a,h)anthracene	14	45	37	**28**	25	8	**13**	35
Fluoranthene	50,000	45	37	0	110	8	0	340
Fluorene	50,000	45	37	0	27	8	0	27
Indeno(1,2,3-cd)pyrene	3,200	45	37	0	34	8	0	87
Naphthalene	13,000	45	37	0	44	8	0	43
Phenanthrene	50,000	45	37	0	61	8	0	200
Pyrene	50,000	45	37	0	120	8	0	320

Analytical Summary for SEAD 50/54 Soil
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AREA 2			Floor Samples			Perimeter Samples		
Compound	Cleanup Goal[1]	Total No. of Samples Collected	No. of Samples Collected	No. of Exceedences	Max Result	No. of Samples Collected	No. of Exceedences	Max Result
Metals (mg/Kg)								
Aluminum	19,200	8	4	0	17,700	4	0	17,000
Antimony	5.9	8	4	0	1.0	4	0	1.1
Arsenic	8.2	34	16	0	6.8	18	0	6.6
Barium	300	8	4	0	118	4	0	100
Beryllium	1.1	8	4	0	1.0	4	0	0.8
Cadmium	2.3	8	4	0	1.0	4	0	1.1
Calcium	120,500	8	4	0	7,960	4	0	43,400
Chromium	29	8	4	0	26	4	**2**	34
Cobalt	30	8	4	0	19	4	0	17
Copper	30	8	4	0	22	4	**1**	32
Iron	35,550	8	4	0	30,700	4	0	33,500
Lead[2]	400	8	4	0	52	4	0	115
Magnesium	21,500	8	4	0	4,600	4	0	20,300
Manganese	1,056	8	4	**1**	1,190	4	0	584
Mercury	0.1	32	16	0	0.1	16	0	0.1
Nickel	48.9	8	4	0	31	4	0	42
Potassium	2,343	8	4	0	1,920	4	**1**	2,570
Selenium	2	8	4	0	1	4	0	2
Silver	0.763	8	4	0	0.240	4	0	0.290
Sodium	170.3	8	4	0	83.7	4	0	130.0
Thallium	0.67	8	4	**4**	2.40	4	**4**	2.90
Vanadium	150	8	4	0	27	4	0	24
Zinc	108.9	32	16	**1**	121.0	16	**1**	131.0
PAHs (ug/Kg)								
2-Methylnaphthalene	36,400	8	4	0	35	4	0	39
Acenaphthene	50,000	8	4	0	19	4	0	21
Acenaphthylene	41,000	8	4	0	14	4	0	15
Anthracene	50,000	8	4	0	15	4	0	17
Benzo(a)anthracene	224	8	4	0	19	4	0	24
Benzo(a)pyrene	61	8	4	0	20	4	0	28
Benzo(b)fluoranthene	1,100	8	4	0	47	4	0	53
Benzo(g,h,i)perylene	50,000	8	4	0	21	4	0	24
Benzo(k)fluoranthene	1,100	8	4	0	49	4	0	54
Chrysene	400	8	4	0	23	4	0	32
Dibenzo(a,h)anthracene	14	8	4	**4**	22	4	**4**	25
Fluoranthene	50,000	8	4	0	35	4	0	55
Fluorene	50,000	8	4	0	25	4	0	28
Indeno(1,2,3-cd)pyrene	3,200	8	4	0	22	4	0	25
Naphthalene	13,000	8	4	0	40	4	0	44
Phenanthrene	50,000	8	4	0	30	4	0	36
Pyrene	50,000	8	4	0	29	4	0	49

Analytical Summary for SEAD 50/54 Soil
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SENECA Army Depot

AREA 3			Floor Samples			Perimeter Samples		
Compound	**Cleanup Goal[1]**	**Total No. of Samples Collected**	**No. of Samples Collected**	**No. of Exceedences**	**Max Result**	**No. of Samples Collected**	**No. of Exceedences**	**Max Result**
Metals (mg/Kg)								
Aluminum	19,200	8	3	0	18,700	5	0	17,200
Antimony	5.9	8	3	0	1.0	5	0	1.1
Arsenic	8.2	32	16	**1**	8.7	16	0	7.4
Barium	300	8	3	0	104	5	0	94
Beryllium	1.1	8	3	0	0.9	5	0	0.8
Cadmium	2.3	8	3	0	0.9	5	0	1.0
Calcium	120,500	8	3	0	25,500	5	0	58,000
Chromium	29	8	3	0	29	5	**2**	41
Cobalt	30	8	3	0	17	5	0	14
Copper	30	8	3	0	24	5	**2**	40
Iron	35,550	8	3	0	34,100	5	0	33,300
Lead[2]	400	8	3	0	40	5	0	117
Magnesium	21,500	8	3	0	9,930	5	0	11,300
Manganese	1,056	8	3	0	982	5	0	554
Mercury	0.1	32	16	0	0.1	16	0	0.1
Nickel	48.9	8	3	0	41	5	**1**	50
Potassium	2,343	8	3	**1**	2,510	5	**5**	3,340
Selenium	2	8	3	0	1	5	0	2
Silver	0.763	8	3	0	0.260	5	0	0.290
Sodium	170.3	8	3	**1**	176.0	5	0	140.0
Thallium	0.67	8	3	**3**	2.60	5	**5**	2.90
Vanadium	150	8	3	0	29	5	0	28
Zinc	108.9	32	16	**1**	121.0	16	**4**	144.0
PAHs (ug/Kg)								
2-Methylnaphthalene	36,400	46	13	0	32	33	0	37
Acenaphthene	50,000	46	13	0	17	33	0	20
Acenaphthylene	41,000	46	13	0	13	33	0	15
Anthracene	50,000	46	13	0	15	33	0	45
Benzo(a)anthracene	224	46	13	0	59	33	0	100
Benzo(a)pyrene	61	47	13	0	47	34	**4**	110
Benzo(b)fluoranthene	1,100	46	13	0	47	33	0	96
Benzo(g,h,i)perylene	50,000	46	13	0	29	33	0	66
Benzo(k)fluoranthene	1,100	46	13	0	45	33	0	110
Chrysene	400	46	13	0	56	33	0	260
Dibenzo(a,h)anthracene	14	47	13	**3**	21	34	**5**	24
Fluoranthene	50,000	46	13	0	130	33	0	250
Fluorene	50,000	46	13	0	23	33	0	26
Indeno(1,2,3-cd)pyrene	3,200	46	13	0	28	33	0	58
Naphthalene	13,000	46	13	0	37	33	0	42
Phenanthrene	50,000	46	13	0	36	33	0	110
Pyrene	50,000	46	13	0	100	33	0	210

Analytical Summary for SEAD 50/54 Soil
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AREA 4			Floor Samples			Perimeter Samples		
Compound	Cleanup Goal[1]	Total No. of Samples Collected	No. of Samples Collected	No. of Exceedences	Max Result	No. of Samples Collected	No. of Exceedences	Max Result
Metals (mg/Kg)								
Aluminum	19,200	21	14	0	17,100	7	0	15,300
Antimony	5.9	21	14	0	1.4	7	0	1.4
Arsenic	8.2	135	89	**10**	13.9	46	**5**	20.9
Barium	300	21	14	0	120	7	0	91
Beryllium	1.1	21	14	0	1.0	7	0	0.7
Cadmium	2.3	21	14	0	1.2	7	0	1.2
Calcium	120,500	21	14	0	42,200	7	0	19,700
Chromium	29	21	14	0	26	7	0	27
Cobalt	30	21	14	0	25	7	0	14
Copper	30	21	14	**1**	31	7	0	28
Iron	35,550	21	14	0	34,700	7	0	29,600
Lead[2]	400	21	14	0	31	7	0	56
Magnesium	21,500	21	14	0	21,200	7	0	6,980
Manganese	1,056	21	14	**1**	1,930	7	0	678
Mercury	0.1	93	60	0	0.1	33	0	0.1
Nickel	48.9	21	14	0	45	7	0	43
Potassium	2,343	21	14	0	2,270	7	0	2,310
Selenium	2	21	14	0	2	7	0	2
Silver	0.763	21	14	0	0.350	7	0	0.360
Sodium	170.3	21	14	**1**	235.0	7	0	119.0
Thallium	0.67	21	14	**14**	3.50	7	**7**	3.60
Vanadium	150	21	14	0	26	7	0	22
Zinc	108.9	93	60	**2**	115.0	33	**3**	155.0
PAHs (ug/Kg)								
2-Methylnaphthalene	36,400	25	15	0	35	10	0	44
Acenaphthene	50,000	25	15	0	19	10	0	24
Acenaphthylene	41,000	25	15	0	14	10	0	17
Anthracene	50,000	25	15	0	28	10	0	34
Benzo(a)anthracene	224	25	15	0	140	10	**1**	290
Benzo(a)pyrene	61	25	15	**3**	100	10	**1**	320
Benzo(b)fluoranthene	1,100	25	15	0	100	10	0	370
Benzo(g,h,i)perylene	50,000	25	15	0	66	10	0	180
Benzo(k)fluoranthene	1,100	25	15	0	120	10	0	320
Chrysene	400	25	15	0	150	10	0	340
Dibenzo(a,h)anthracene	14	25	15	**14**	25	10	**7**	28
Fluoranthene	50,000	25	15	0	270	10	0	540
Fluorene	50,000	25	15	0	25	10	0	32
Indeno(1,2,3-cd)pyrene	3,200	25	15	0	58	10	0	150
Naphthalene	13,000	25	15	0	40	10	0	51
Phenanthrene	50,000	25	15	0	110	10	0	140
Pyrene	50,000	25	15	0	310	10	0	610

Analytical Summary for SEAD 50/54 Soil
Time Critical Removal Action
SENECA Army Depot

AREA 5			Floor Samples			Perimeter Samples		
Compound	Cleanup Goal[1]	Total No. of Samples Collected	No. of Samples Collected	No. of Exceedences	Max Result	No. of Samples Collected	No. of Exceedences	Max Result
Metals (mg/Kg)								
Aluminum	19,200	9	5	0	18,400	4	0	16,400
Antimony	5.9	9	5	0	2.9	4	**1**	162.0
Arsenic	8.2	47	26	**1**	8.7	21	**1**	8.4
Barium	300	9	5	0	171	4	0	128
Beryllium	1.1	9	5	0	1.0	4	0	0.8
Cadmium	2.3	9	5	0	1.3	4	0	1.3
Calcium	120,500	9	5	0	7,970	4	0	36,000
Chromium	29	9	5	0	25	4	0	28
Cobalt	30	9	5	0	12	4	0	15
Copper	30	9	5	0	25	4	**1**	33
Iron	35,550	9	5	0	29,000	4	0	31,600
Lead[2]	400	9	5	0	46	4	0	98
Magnesium	21,500	9	5	0	5,710	4	0	11,300
Manganese	1,056	9	5	**1**	1,140	4	0	580
Mercury	0.1	49	26	0	0.1	23	0	0.1
Nickel	48.9	9	5	0	30	4	0	48
Potassium	2,343	9	5	0	2,290	4	**2**	2,730
Selenium	2	9	5	0	2	4	**1**	2
Silver	0.763	9	5	0	0.380	4	0	0.390
Sodium	170.3	9	5	0	67.6	4	0	131.0
Thallium	0.67	9	5	**5**	3.80	4	**4**	3.90
Vanadium	150	9	5	0	29	4	0	25
Zinc	108.9	46	26	0	106.0	20	**5**	887.0
PAHs (ug/Kg)								
2-Methylnaphthalene	36,400	9	5	0	37	4	0	39
Acenaphthene	50,000	9	5	0	20	4	0	21
Acenaphthylene	41,000	9	5	0	15	4	0	15
Anthracene	50,000	9	5	0	16	4	0	17
Benzo(a)anthracene	224	9	5	0	20	4	0	54
Benzo(a)pyrene	61	9	5	0	21	4	0	48
Benzo(b)fluoranthene	1,100	9	5	0	51	4	0	52
Benzo(g,h,i)perylene	50,000	9	5	0	23	4	0	23
Benzo(k)fluoranthene	1,100	9	5	0	52	4	0	54
Chrysene	400	9	5	0	23	4	0	72
Dibenzo(a,h)anthracene	14	9	5	**5**	24	4	**4**	25
Fluoranthene	50,000	9	5	0	29	4	0	100
Fluorene	50,000	9	5	0	27	4	0	28
Indeno(1,2,3-cd)pyrene	3,200	9	5	0	24	4	0	25
Naphthalene	13,000	9	5	0	43	4	0	44
Phenanthrene	50,000	9	5	0	32	4	0	46
Pyrene	50,000	9	5	0	38	4	0	130

Analytical Summary for SEAD 50/54 Soil
Time Critical Removal Action
SENECA Army Depot

AREA 6			Floor Samples			Perimeter Samples		
Compound	Cleanup Goal[1]	Total No. of Samples Collected	No. of Samples Collected	No. of Exceedences	Max Result	No. of Samples Collected	No. of Exceedences	Max Result
Metals (mg/Kg)								
Aluminum	19,200	4	1	0	16,000	3	0	15,800
Antimony	5.9	4	1	0	1.0	3	0	1.4
Arsenic	8.2	59	16	**2**	9.5	43	**9**	41.9
Barium	300	4	1	0	107	3	0	119
Beryllium	1.1	4	1	0	0.8	3	0	0.8
Cadmium	2.3	4	1	0	0.8	3	0	1.0
Calcium	120,500	4	1	0	3,380	3	0	4,920
Chromium	29	4	1	0	21	3	0	23
Cobalt	30	4	1	0	12	3	0	11
Copper	30	4	1	0	18	3	0	25
Iron	35,550	4	1	0	24,400	3	0	24,600
Lead[2]	400	4	1	0	28	3	0	29
Magnesium	21,500	4	1	0	3,820	3	0	4,230
Manganese	1,056	4	1	0	697	3	0	577
Mercury	0.1	17	5	0	0.1	12	0	0.1
Nickel	48.9	4	1	0	24	3	0	29
Potassium	2,343	4	1	0	1,840	3	**1**	3,490
Selenium	2	4	1	0	1	3	0	2
Silver	0.763	4	1	0	0.250	3	0	0.300
Sodium	170.3	4	1	0	49.0	3	0	51.8
Thallium	0.67	4	1	**1**	2.50	3	**3**	3.00
Vanadium	150	4	1	0	25	3	0	25
Zinc	108.9	17	5	0	81.5	12	0	100.0
PAHs (ug/Kg)								
2-Methylnaphthalene	36,400	4	1	0	36	3	0	40
Acenaphthene	50,000	4	1	0	19	3	0	22
Acenaphthylene	41,000	4	1	0	14	3	0	16
Anthracene	50,000	4	1	0	15	3	0	27
Benzo(a)anthracene	224	4	1	0	45	3	0	120
Benzo(a)pyrene	61	4	1	0	43	3	**2**	130
Benzo(b)fluoranthene	1,100	4	1	0	49	3	0	110
Benzo(g,h,i)perylene	50,000	4	1	0	26	3	0	34
Benzo(k)fluoranthene	1,100	4	1	0	50	3	0	110
Chrysene	400	4	1	0	51	3	0	140
Dibenzo(a,h)anthracene	14	4	1	**1**	23	3	**3**	26
Fluoranthene	50,000	4	1	0	86	3	0	250
Fluorene	50,000	4	1	0	26	3	0	29
Indeno(1,2,3-cd)pyrene	3,200	4	1	0	26	3	0	38
Naphthalene	13,000	4	1	0	41	3	0	46
Phenanthrene	50,000	4	1	0	52	3	0	160
Pyrene	50,000	4	1	0	85	3	0	240

Analytical Summary for SEAD 50/54 Soil
Time Critical Removal Action
SENECA Army Depot

AREA 7			Floor Samples			Perimeter Samples		
Compound	Cleanup Goal[1]	Total No. of Samples Collected	No. of Samples Collected	No. of Exceedences	Max Result	No. of Samples Collected	No. of Exceedences	Max Result
Metals (mg/Kg)								
Aluminum	19,200	3	2	0	19,200	1	0	15,300
Antimony	5.9	3	2	0	1.1	1	0	1.5
Arsenic	8.2	12	10	0	6.7	2	0	6.1
Barium	300	3	2	0	129	1	0	94
Beryllium	1.1	3	2	0	0.9	1	0	0.8
Cadmium	2.3	3	2	0	1.1	1	0	1.3
Calcium	120,500	3	2	0	5,340	1	0	3,930
Chromium	29	3	2	0	27	1	0	26
Cobalt	30	3	2	0	11	1	0	11
Copper	30	3	2	0	28	1	0	27
Iron	35,550	3	2	0	30,100	1	0	29,600
Lead[2]	400	3	2	0	20	1	0	14
Magnesium	21,500	3	2	0	5,020	1	0	5,470
Manganese	1,056	3	2	0	555	1	0	384
Mercury	0.1	12	10	0	0.1	2	0	0.1
Nickel	48.9	3	2	0	33	1	0	37
Potassium	2,343	3	2	**2**	2,720	1	0	2,120
Selenium	2	3	2	0	1	1	0	2
Silver	0.763	3	2	0	0.270	1	0	0.380
Sodium	170.3	3	2	0	158.0	1	**1**	173.0
Thallium	0.67	3	2	**2**	2.70	1	**1**	3.80
Vanadium	150	3	2	0	31	1	0	25
Zinc	108.9	12	10	0	97.8	2	0	95.9
PAHs (ug/Kg)								
2-Methylnaphthalene	36,400	3	2	0	41	1	0	35
Acenaphthene	50,000	3	2	0	22	1	0	19
Acenaphthylene	41,000	3	2	0	18	1	0	14
Anthracene	50,000	3	2	0	18	1	0	15
Benzo(a)anthracene	224	3	2	0	65	1	0	35
Benzo(a)pyrene	61	3	2	**1**	85	1	0	53
Benzo(b)fluoranthene	1,100	3	2	0	74	1	0	54
Benzo(g,h,i)perylene	50,000	3	2	0	65	1	0	32
Benzo(k)fluoranthene	1,100	3	2	0	110	1	0	49
Chrysene	400	3	2	0	91	1	0	50
Dibenzo(a,h)anthracene	14	3	2	**2**	26	1	**1**	22
Fluoranthene	50,000	3	2	0	170	1	0	63
Fluorene	50,000	3	2	0	29	1	0	25
Indeno(1,2,3-cd)pyrene	3,200	3	2	0	57	1	0	29
Naphthalene	13,000	3	2	0	47	1	0	40
Phenanthrene	50,000	3	2	0	82	1	0	35
Pyrene	50,000	3	2	0	150	1	0	76

Notes:

1. The Cleanup Goal is based on the NY TAGM No. 4046 Recommended Soil Cleanup Objectives. Values denoted as "SB" in TAGM 4046, were compared with the highlighted values (95th percentile of SEDA Site Background) in lieu of the TAGM "SB" since no background cleanup objectives exist for certain parameters.

2.EPA Risk Based Residential Cleanup Goal for lead

95th percentile of SEDA Site Background

Result Exceeds CleanUp Criteria

mg/kg= milligram per kilogram
µg/kg= microgram per kilogram

Analytical Summary for SEAD 50/54
Average Final Results for Soil
Time Critical Removal Action
SENECA Army Depot

		Area 1			Area 2			Area 3		
Compound	**TAGM (Cleanup Goal)**	**Floor**	**Perimeter**	**All**	**Floor**	**Perimeter**	**All**	**Floor**	**Perimeter**	**All**
[1]Metals										
Aluminum	19,200	13,134	12,296	12,715	15,950	13,988	14,969	17,667	15,128	16,397
Antimony	5.9	1.7	2.6	2.1	0.9	1.0	1.0	1.0	1.0	1.0
****Arsenic**	8.24	5.90	5.27	5.58	5.09	4.73	4.91	6.26	5.21	5.73
Barium	117.8	110.9	65.3	88.1	106.1	76.1	91.1	87.1	72.9	80.0
Beryllium	1.1	0.7	0.6	0.7	0.8	0.7	0.7	0.8	0.7	0.8
**Cadmium	2.3	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9
Calcium	120,500	11,163	17,348	14,256	5,350	15,703	10,526	18,703	24,880	21,792
Chromium	29	20	21	20	24	30	27	27	30	29
**Cobalt	30	10	10	10	13	11	12	15	12	13
**Copper	29.6	16.9	21.7	19.3	19.2	24.9	22.0	23.3	28.1	25.7
Iron	35,550	23,193	23,315	23,254	25,875	26,050	25,963	31,800	28,120	29,960
****Lead**	400	29	33	31	42	85	64	32	64	48
Magnesium	21,500	5,460	5,912	5,686	4,183	9,490	6,836	8,210	7,920	8,065
Manganese	1,056	875	447	661	804	500	652	801	484	643
****Mercury**	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Nickel	48.9	22.9	30.6	26.7	26.0	29.8	27.9	38.6	41.1	39.8
Potassium	2,343	1,289	1,509	1,399	1,658	2,278	1,968	2,263	2,894	2,579
*Selenium	2	2	2	2	1	1	1	1	1	1
Silver	0.763	0.290	0.301	0.296	0.223	0.253	0.238	0.257	0.256	0.256
Sodium	170.3	64.0	77.4	70.7	72.2	95.4	83.8	128.5	103.8	116.2
Thallium	0.67	2.90	3.01	2.96	2.23	2.53	2.38	2.57	2.56	2.56
**Vanadium	31.9	22.5	18.8	20.6	24.9	20.9	22.9	25.8	22.8	24.3
Zinc	108.9	78.6	162.1	120.4	73.5	82.4	78.0	89.4	90.4	89.9
[2]PAHs										
2-Methylnaphthalene	72800	34	34	34	35	37	36	31	33	32
Acenaphthene	100000	18	18	18	19	20	19	17	18	17
Acenaphthylene	82000	14	16	15	14	14	14	12	13	13
Anthracene	100000	15	17	16	15	16	15	14	19	16
Benzo(a)anthracene	448	22	44	33	19	21	20	37	55	46
Benzo(a)pyrene	122	23	47	35	20	24	22	31	58	45
Benzo(b)fluoranthene	2200	47	61	54	47	50	48	44	64	54
Benzo(ghi)perylene	100000	22	37	29	21	23	22	22	33	27
Benzo(k)fluoranthene	2200	49	62	55	48	51	50	44	74	59
Chrysene	800	25	57	41	22	27	24	38	86	62
Dibenzo(a,h)anthracene	28	22	24	23	22	24	23	18	18	18
Fluoranthene	100000	35	91	63	31	44	37	87	124	106
Fluorene	100000	24	24	24	25	26	25	22	23	23
Indeno(1,2,3-cd)pyrene	6400	23	33	28	22	24	23	22	31	27
Naphthalene	26000	39	39	39	40	42	41	36	37	37
Phenanthrene	100000	31	59	45	30	33	31	29	55	42
Pyrene	100000	32	89	61	26	41	34	67	110	88

Analytical Summary for SEAD 50/54
Average Final Results for Soil
Time Critical Removal Action
SENECA Army Depot

		Area 4			Area 5			Area 6		
Compound	**TAGM (Cleanup Goal)**	**Floor**	**Perimeter**	**All**	**Floor**	**Perimeter**	**All**	**Floor**	**Perimeter**	**All**
[1]Metals										
Aluminum	19,200	14,893	13,286	14,089	15,260	14,225	14,743	16,000	15,200	15,600
Antimony	5.9	1.1	1.1	1.1	1.6	42.1	21.9	1.0	1.2	1.1
****Arsenic**	8.24	7.20	7.36	7.28	6.07	5.41	5.74	6.88	12.98	9.93
Barium	117.8	84.0	65.4	74.7	117.1	77.5	97.3	107.0	104.7	105.9
Beryllium	1.1	0.7	0.6	0.7	0.8	0.7	0.8	0.8	0.7	0.8
**Cadmium	2.3	0.9	1.0	1.0	1.1	1.1	1.1	0.8	0.9	0.9
Calcium	120,500	18,259	10,157	14,208	5,278	12,163	8,720	3,380	3,720	3,550
Chromium	29	22	22	22	22	24	23	21	21	21
**Cobalt	30	13	12	13	11	11	11	12	11	11
**Copper	29.6	22.4	22.8	22.6	18.7	22.4	20.6	18.1	21.4	19.8
Iron	35,550	27,679	25,457	26,568	24,860	25,850	25,355	24,400	23,733	24,067
****Lead**	400	19	33	26	28	52	40	28	27	28
Magnesium	21,500	7,824	5,257	6,540	4,470	6,198	5,334	3,820	4,030	3,925
Manganese	1,056	720	499	610	790	498	644	697	548	623
****Mercury**	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1
Nickel	48.9	32.7	33.4	33.0	24.7	31.7	28.2	24.1	26.2	25.2
Potassium	2,343	1,653	2,024	1,839	1,592	1,839	1,715	1,840	2,603	2,222
*Selenium	2	1	1	1	2	2	2	1	1	1
Silver	0.763	0.271	0.271	0.271	0.336	0.328	0.332	0.250	0.273	0.262
Sodium	170.3	96.7	70.9	83.8	61.6	75.0	68.3	49.0	47.6	48.3
Thallium	0.67	2.71	2.71	2.71	3.36	3.28	3.32	2.50	2.73	2.62
**Vanadium	31.9	21.7	19.1	20.4	25.2	20.6	22.9	24.5	24.0	24.3
Zinc	108.9	77.7	86.1	81.9	81.9	176.4	129.1	70.4	81.3	75.8
[2]PAHs										
2-Methylnaphthalene	72800	33	36	34	35	34	34	36	38	37
Acenaphthene	100000	17	20	18	19	18	19	19	20	20
Acenaphthylene	82000	13	14	13	14	13	14	14	15	15
Anthracene	100000	16	18	17	15	15	15	15	20	18
Benzo(a)anthracene	448	42	76	59	19	29	24	45	78	62
Benzo(a)pyrene	122	40	84	62	20	29	24	43	85	64
Benzo(b)fluoranthene	2200	56	103	80	47	46	47	49	73	61
Benzo(ghi)perylene	100000	30	56	43	21	20	21	26	26	26
Benzo(k)fluoranthene	2200	60	96	78	49	49	49	50	77	63
Chrysene	800	51	96	73	21	37	29	51	93	72
Dibenzo(a,h)anthracene	28	21	23	22	22	22	22	23	24	24
Fluoranthene	100000	77	152	115	27	52	40	86	177	131
Fluorene	100000	23	26	25	25	24	25	26	27	27
Indeno(1,2,3-cd)pyrene	6400	29	50	39	22	22	22	26	30	28
Naphthalene	26000	37	42	39	40	39	39	41	43	42
Phenanthrene	100000	43	68	55	30	34	32	52	119	86
Pyrene	100000	83	156	119	27	63	45	85	163	124

Analytical Summary for SEAD 50/54
Average Final Results for Soil
Time Critical Removal Action
SENECA Army Depot

		Area 7			All Areas		
Compound	**TAGM (Cleanup Goal)**	**Floor**	**Perimeter**	**All**	**Floor**	**Perimeter**	**All**
[1]Metals							
Aluminum	19,200	18,050	15,300	16,675	15,851	14,203	15,027
Antimony	5.9	1.0	1.5	1.3	1.2	7.2	4.2
****Arsenic**	8.24	5.89	5.55	5.72	6.18	6.64	6.41
Barium	117.8	129.0	94.3	111.7	105.9	79.5	92.7
Beryllium	1.1	0.9	0.8	0.8	0.8	0.7	0.7
**Cadmium	2.3	1.0	1.3	1.1	0.9	1.0	1.0
Calcium	120,500	4,810	3,930	4,370	9,563	12,557	11,060
Chromium	29	25	26	25	23	25	24
**Cobalt	30	11	11	11	12	11	12
**Copper	29.6	27.1	26.6	26.8	20.8	24.0	22.4
Iron	35,550	28,700	29,600	29,150	26,644	26,018	26,331
****Lead**	400	20	14	17	28	44	36
Magnesium	21,500	4,780	5,470	5,125	5,535	6,325	5,930
Manganese	1,056	536	384	460	746	480	613
****Mercury**	0.1	0.1	0.0	0.1	0.1	0.1	0.1
Nickel	48.9	32.4	36.9	34.7	28.8	32.8	30.8
Potassium	2,343	2,575	2,120	2,348	1,839	2,181	2,010
*Selenium	2	1	2	2	1	2	1
Silver	0.763	0.260	0.380	0.320	0.269	0.295	0.282
Sodium	170.3	154.5	173.0	163.8	89.5	91.9	90.7
Thallium	0.67	2.60	3.80	3.20	2.69	2.95	2.82
**Vanadium	31.9	29.1	24.9	27.0	24.8	21.6	23.2
Zinc	108.9	83.7	85.6	84.7	79.3	109.2	94.2
[2]PAHs							
2-Methylnaphthalene	72800	39	35	37	35	35	35
Acenaphthene	100000	21	19	20	19	19	19
Acenaphthylene	82000	17	14	16	14	14	14
Anthracene	100000	18	15	16	15	17	16
Benzo(a)anthracene	448	45	35	40	32	48	40
Benzo(a)pyrene	122	58	53	56	34	54	44
Benzo(b)fluoranthene	2200	65	54	60	51	64	58
Benzo(ghi)perylene	100000	45	32	39	27	32	29
Benzo(k)fluoranthene	2200	84	49	66	55	65	60
Chrysene	800	62	50	56	39	64	51
Dibenzo(a,h)anthracene	28	25	22	24	22	22	22
Fluoranthene	100000	109	63	86	65	100	83
Fluorene	100000	28	25	26	25	25	25
Indeno(1,2,3-cd)pyrene	6400	42	29	35	26	31	29
Naphthalene	26000	45	40	42	40	40	40
Phenanthrene	100000	59	35	47	39	58	48
Pyrene	100000	99	76	87	60	100	80

CONFIRMATORY SOIL DATA - AREAS 1 THROUGH 7

Analytical Results for Area 1 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A1-SS-001-FS	FX-A1-SS-002-FS	FX-A1-SS-003-FS	FX-A1-SS-004-FS	FX-A1-SS-005-FS	FX-A1-SS-006-FS	FX-A1-SS-007-FS	FX-A1-SS-008-FS	FX-A1-SS-009-FS	FX-A1-SS-010-FS	FX-A1-SS-011-FS	FX-A1-SS-012-FS	FX-A1-SS-013-FS
Depth (inches)		6	6	6	6	6	6	6	6	6	6	6	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200				12600				15900				15200	
Antimony	5.9				1.9 BN				1.5 UN				4.4 BN	
****Arsenic**	8.24	5.4	4.6	5	8.2 B	4.8	5.7	5.2	6.3 B	3.9	3.1	4.4	5.7 B	5.1
Barium	300				68.7				92.2				99.3	
Beryllium	1.1				0.64 B				0.76 B				0.75 B	
**Cadmium	2.3				1 UN				1.2 UN				1.2 UN	
Calcium	120,500				11800 *				3840 *				4310 *	
Chromium	29				21.4				22.1				23.1	
**Cobalt	30				8.8				10.6				8.9	
**Copper	29.6				14.5				12.2				14.1	
Iron	35,550				26600				25500				24600	
**Lead[2]	400				42.6 *				23.8 *				30.9 *	
Magnesium	21,500				6930 *				3440 *				3520 *	
Manganese	1,056				460 *				708 *				378 *	
****Mercury**	0.1	0.049 U	0.053 U	0.058 U	0.056 U	0.056 U	0.046 U	0.053 U	0.048 U	0.055 U	0.051 U	0.044 U	0.044 U	0.051 U
Nickel	48.9				19.7				19.9				21.5	
Potassium	2,343				1080 *				1020 *				1220 *	
*Selenium	2				1.6 U				2 U				2 U	
Silver	0.763				0.31 U				0.37 U				0.37 U	
Sodium	170.3				85.7 B*				81.8 B*				79.2 B*	
Thallium	0.67				3.1 U				3.7 U				3.7 U	
**Vanadium	150				24.7				30.1				28.8	
Zinc	108.9	61.2 NE	63.5 NE	107 NE	74	76.4 NE	84.2 NE	77.1 NE	73.1	49.6 NE	41.2 NE	56.9 NE	94.8	58.3 NE
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400				36 U				34 U				35 U	
Acenaphthene	50,000				19 U				18 U				19 U	
Acenaphthylene	41,000				14 U				13 U				14 U	
Anthracene	50,000				15 U				15 U				15 U	
Benzo(a)anthracene	224				19 UM				18 UM				19 UM	
Benzo(a)pyrene	61				21 U				20 UM				20 U	
Benzo(b)fluoranthene	1,100				49 UH				47 UM				48 UH	
Benzo(ghi)perylene	50,000				22 U				21 U				21 U	
Benzo(k)fluoranthene	1,100				50 UM				48 UM				49 U	
Chrysene	400				22 UM				21 UM				21 UM	
Dibenzo(a,h)anthracene	14				23 U				22 U				23 U	
Fluoranthene	50,000				28 U				27 U				28 U	
Fluorene	50,000				26 U				25 U				25 U	
Indeno(1,2,3-cd)pyrene	3,200				23 U				22 U				23 U	
Naphthalene	13,000				41 U				39 U				40 U	
Phenanthrene	50,000				31 UM				29 UM				30 UM	
Pyrene	50,000				24 U				23 U				24 U	

Analytical Results for Area 1 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A1-SS-014-FS	FX-A1-SS-015-FS	FX-A1-SS-016-FS	FX-A1-SS-017-FS	FX-A1-SS-018-FS	FX-A1-SS-019-FS	FX-A1-SS-020-FS	FX-A1-SS-021-FS	FX-A1-SS-022-FS	FX-A1-SS-023-FS	FX-A1-SS-024-FS	FX-A1-SS-025-FS	FX-A1-SS-026-FS	FX-A1-SS-027-FS
Depth (inches)		6	6	6	6	6	6	6	6	6	6	6	6	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200			13800				12300							
Antimony	5.9			1.7 UN				1.3 UN							
****Arsenic**	8.24	7	4.9	6.7 B	5.5	5.7	5.1	4.9 B	5.5	4.9	7.6	5	5.7	5.5	5.9
Barium	300			109				128							
Beryllium	1.1			0.76 B				0.61 B							
**Cadmium	2.3			1.4 UN				1.1 UN							
Calcium	120,500			3620 *				8710 *							
Chromium	29			19.9				18							
**Cobalt	30			11.9				11.9							
**Copper	29.6			12.4				11.3							
Iron	35,550			29000				21000							
**Lead[2]	400			15 *				23.4 *							
Magnesium	21,500			3430 *				4060 *							
Manganese	1,056			1560 *				1670 *							
****Mercury**	0.1	0.048 U	0.052 U	0.055 U	0.047 U	0.056 U	0.066 U	0.055 U	0.068 U	0.055 U	0.057 U	0.051 U	0.043 U	0.047 U	0.049 U
Nickel	48.9			21.8				17.9							
Potassium	2,343			1050 *				951 *							
*Selenium	2			2.2 U				1.8 U							
Silver	0.763			0.42 U				0.33 U							
Sodium	170.3			57.9 B*				58.3 B*							
Thallium	0.67			4.2 U				3.3 U							
**Vanadium	150			26.7				23.7							
Zinc	108.9	67.3 NE	49.9 NE	63.9	60.1 NE	56.9 NE	73.2 NE	61.7	74.9 NE	66.7 NE	71.5 NE	61.1 NE	52.5 E	63.8 E	66.8 E
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400			38 U				36 U							
Acenaphthene	50,000			21 U				19 U							
Acenaphthylene	41,000			15 U				14 U							
Anthracene	50,000			16 U				15 U							
Benzo(a)anthracene	224			21 U				19 U							
Benzo(a)pyrene	61			22 U				21 U							
Benzo(b)fluoranthene	1,100			52 U				49 U							
Benzo(ghi)perylene	50,000			23 U				22 U							
Benzo(k)fluoranthene	1,100			54 U				50 U							
Chrysene	400			23 U				22 U							
Dibenzo(a,h)anthracene	14			25 U				23 U							
Fluoranthene	50,000			30 U				28 U							
Fluorene	50,000			27 U				26 U							
Indeno(1,2,3-cd)pyrene	3,200			25 U				23 U							
Naphthalene	13,000			44 U				41 U							
Phenanthrene	50,000			33 U				31 U							
Pyrene	50,000			26 U				24 U							

Analytical Results for Area 1 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A1-SS-028-FS	FX-A1-SS-028-FS2	FX-A1-SS-029-FS	FX-A1-SS-029-FS2	FX-A1-SS-030-FS	FX-A1-SS-030-FS2	FX-A1-SS-031-FS	FX-A1-SS-031-FS2	FX-A1-SS-032-FS	FX-A1-SS-032-FS2	FX-A1-SS-033-FS	FX-A1-SS-033-FS2	FX-A1-SS-034-FS	FX-A1-SS-034-FS2
Depth (inches)		6	12	6	12	6	12	6	12	6	12	6	12	6	12
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200	14300								11500					
Antimony	5.9	1 UN								0.77 UN					
****Arsenic**	8.24		5.98 *		7.84 *		7.48 *		8.6 *		7.54 *		6.26 *		6.52
Barium	300	133								94.3					
Beryllium	1.1	0.87 B								0.67 B					
**Cadmium	2.3	0.84 UN								0.64 UN					
Calcium	120,500	11800								3260					
Chromium	29	20.8 N								15.8 N					
**Cobalt	30	9.2								7.6					
**Copper	29.6	19.2								16.5					
Iron	35,550	23500								19300					
**Lead[2]	400	26.4 N								17.4 N					
Magnesium	21,500	5300 *								2770 *					
Manganese	1,056	967								679					
****Mercury**	0.1	0.061 B		0.066 B		0.062 B		0.062 B		0.063 B		0.069 B		0.074 B	
Nickel	48.9	22.8								19.1					
Potassium	2,343	1350								1050					
*Selenium	2	1.3 UN								1 UN					
Silver	0.763	0.25 U								0.19 U					
Sodium	170.3	63.9 B								37.4 B					
Thallium	0.67	2.5 U								1.9 U					
**Vanadium	150	23.6								19.4					
Zinc	108.9	75.7 N		80.5		62.2		62.3		61.4 N		68.1		78.7	
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400	34 U								34 U					
Acenaphthene	50,000	18 U								18 U					
Acenaphthylene	41,000	13 U								13 U					
Anthracene	50,000	14 U								15 U					
Benzo(a)anthracene	224	18 U								18 U					
Benzo(a)pyrene	61	19 U								20 UM					
Benzo(b)fluoranthene	1,100	46 U								46 UM					
Benzo(ghi)perylene	50,000	20 U								21 U					
Benzo(k)fluoranthene	1,100	47 U								48 UM					
Chrysene	400	20 U								21 UM					
Dibenzo(a,h)anthracene	14	22 U								22 U					
Fluoranthene	50,000	27 U								27 U					
Fluorene	50,000	24 U								24 U					
Indeno(1,2,3-cd)pyrene	3,200	22 U								22 U					
Naphthalene	13,000	39 U								39 U					
Phenanthrene	50,000	29 U								29 UM					
Pyrene	50,000	23 U								23 U					

Analytical Results for Area 1 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A1-SS-035-FS	FX-A1-SS-036-FS	FX-A1-SS-037-FS	FX-A1-SS-038-FS	FX-A1-SS-039-FS	FX-A1-SS-040-FS	FX-A1-SS-041-FS	FX-A1-SS-041-FS2	FX-A1-SS-042-FS	FX-A1-SS-043-FS	FX-A1-SS-044-FS	FX-A1-SS-045-FS	FX-A1-SS-046-FS	FX-A1-SS-047-FS
Depth (inches)		6	6	6	6	6	6	6	12	6	6	6	6	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200		13400				11500					9330			
Antimony	5.9		0.96 UN				1.2 UN					1.1 UN			
****Arsenic**	8.24	5.9	6 B	7.7	7.4	5.2	4 B	6.4		5	5.2	4.5 B	4.2	7.1	5.8
Barium	300		112				76					57.1			
Beryllium	1.1		0.8 B				0.65 B					0.49 B			
**Cadmium	2.3		0.8 UN				0.98 UN					0.91 UN			
Calcium	120,500		3840				2310					43300			
Chromium	29		18.7 N				15.3 N					19.5 N			
**Cobalt	30		8.5				6.5					6.6			
**Copper	29.6		21.4				14					15.3			
Iron	35,550		22300				18600					18000			
**Lead[2]	400		14.1 N				11 N					106 N			
Magnesium	21,500		3390 *				2630 *					21000 *			
Manganese	1,056		702				394					454			
****Mercury**	0.1	0.072 B	0.078 B	0.062 B	0.056 B	0.057 B	0.058 B		0.057 U	0.043 B	0.046 U	0.04 B	0.053 B	0.071 B	0.056 B
Nickel	48.9		25.2				17.2					19.3			
Potassium	2,343		1210				858					1130			
*Selenium	2		1.3 UN				1.6 UN					1.5 UN			
Silver	0.763		0.24 U				0.29 U					0.27 U			
Sodium	170.3		39.4 B				38 B					103			
Thallium	0.67		2.4 U				2.9 U					2.7 U			
**Vanadium	150		20.8				19.3					14.7			
Zinc	108.9	63.9	68.5 N	67.2	54.6	67.2	46.2 N	59.5		72.3 NE	65.3	93.4 N	76.1	79.7	90.4
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400		35 U				33 U					33 U			
Acenaphthene	50,000		19 U				18 U					17 U			
Acenaphthylene	41,000		14 U				13 U					13 U			
Anthracene	50,000		15 U				14 U					14 U			
Benzo(a)anthracene	224		19 U				18 U					17 UM			
Benzo(a)pyrene	61		20 U				19 U					19 U			
Benzo(b)fluoranthene	1,100		48 UM				45 U					44 UM			
Benzo(ghi)perylene	50,000		21 U				20 U					20 U			
Benzo(k)fluoranthene	1,100		49 UM				46 U					45 UM			
Chrysene	400		21 U				20 U					20 U			
Dibenzo(a,h)anthracene	14		23 U				21 U					21 U			
Fluoranthene	50,000		32 J				26 UM					26 U			
Fluorene	50,000		25 U				24 U					23 U			
Indeno(1,2,3-cd)pyrene	3,200		23 U				21 U					21 U			
Naphthalene	13,000		40 U				38 U					37 U			
Phenanthrene	50,000		30 U				29 U					28 U			
Pyrene	50,000		26 J				23 U					22 U			

Analytical Results for Area 1 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A1-SS-048-FS	FX-A1-SS-049-FS	FX-A1-SS-050-FS	FX-A1-SS-051-FS	FX-A1-SS-052-FS	FX-A1-SS-053-FS	FX-A1-SS-053-FS2	FX-A1-SS-054-FS	FX-A1-SS-054-FS2	FX-A1-SS-055-FS	FX-A1-SS-055-FS2	FX-A1-SS-056-FS	FX-A1-SS-056-FS3	FX-A1-SS-057-FS
Depth (inches)		6	6	6	6	6	6	12	6	12	6	12	6	18	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200	11000				14000							12800		
Antimony	5.9	0.99 UN				1.1 UN							0.94 UN		
****Arsenic**	8.24	5 B	5	5.6	5.5	5.8 B		11.2		4.81 B		5.66		5.1	6.8
Barium	300	80.9				97.2							106		
Beryllium	1.1	0.62 B				0.79 B							0.73 B		
**Cadmium	2.3	0.83 UN				0.95 UN							0.78 UN		
Calcium	120,500	5190				3270							5370		
Chromium	29	17.2 N				20.2 N							20.4 N		
**Cobalt	30	8.3				10.2							9.9		
**Copper	29.6	17.1				17.9							20.4		
Iron	35,550	19300				25000							22600		
**Lead[2]	400	29.4 N				23.3 N							49.5 N		
Magnesium	21,500	3150 *				3790 *							3680 *		
Manganese	1,056	526				671							652		
****Mercury**	0.1	0.052 B	0.049 B	0.042 U	0.063 B	0.059 B	0.065 B		0.067 B		0.06 B		0.077		0.065 B
Nickel	48.9	23				24.9							24.4		
Potassium	2,343	1020				1150							1670		
*Selenium	2	1.3 UN				1.5 UN							1.3 UN		
Silver	0.763	0.25 U				0.29 U							0.23 U		
Sodium	170.3	36.6 B				43.2 B							44.9 B		
Thallium	0.67	2.5 U				2.9 U							2.3 U		
**Vanadium	150	17.9				22.4							20.4		
Zinc	108.9	87.4 N	103	72	67.1	82.2 N	72.7 NE		71.7 NE		67.6 NE		85.1 N		72.7 NE
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400	34 U				34 U							35 U		
Acenaphthene	50,000	18 U				18 U							19 U		
Acenaphthylene	41,000	13 U				13 U							14 UM		
Anthracene	50,000	15 UM				15 U							20 J		
Benzo(a)anthracene	224	26 J				18 U							74 J		
Benzo(a)pyrene	61	25 J				19 U							70 J		
Benzo(b)fluoranthene	1,100	46 UM				46 UM							53 JM		
Benzo(ghi)perylene	50,000	21 UM				21 U							34 J		
Benzo(k)fluoranthene	1,100	47 UM				47 UM							63 JM		
Chrysene	400	33 J				21 U							79 J		
Dibenzo(a,h)anthracene	14	22 U				22 U							22 J		
Fluoranthene	50,000	52 J				27 U							110 J		
Fluorene	50,000	24 U				24 U							25 U		
Indeno(1,2,3-cd)pyrene	3,200	22 U				22 U							34 J		
Naphthalene	13,000	39 U				39 U							40 UM		
Phenanthrene	50,000	35 J				29 UM							61 J		
Pyrene	50,000	51 J				23 U							120 J		

Analytical Results for Area 1 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A1-SS-058-FS	FX-A1-SS-059-FS	FX-A1-SS-060-FS	FX-A1-SS-061-FS	FX-A1-SS-062-FS	FX-A1-SS-063-FS	FX-A1-SS-064-FS	FX-A1-SS-065-FS	FX-A1-SS-065-FS2	FX-A1-SS-066-FS	FX-A1-SS-067-FS	FX-A1-SS-068-FS	FX-A1-SS-069-FS	FX-A1-SS-070-FS
Depth (inches)		6	6	6	6	6	6	6	6	12	6	6	6	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200			10600				13400					13500		
Antimony	5.9			1.1 UN				1.1 UN					7.7 BN		
****Arsenic**	8.24	6.9	4.6	7.2 B	3.9	3.9	5.9	6.1 BN		12.6	5.6	3.8	5.7 BN	4.5	3.8
Barium	300			74.6				77.9					71.1		
Beryllium	1.1			0.55 B				0.71 B					0.63 B		
**Cadmium	2.3			0.92 UN				0.9 U					0.8 U		
Calcium	120,500			34800				3410 *					3630 *		
Chromium	29			17.7 N				19.3					17.5		
**Cobalt	30			7.8				10.4					8.2		
**Copper	29.6			17.5				18					14.7		
Iron	35,550			18800				23400 *					22500 *		
**Lead[2]	400			41.1 N				32.7					20.7		
Magnesium	21,500			16900 *				3700					3300		
Manganese	1,056			589				614					451		
****Mercury**	0.1	0.058 B	0.052 B	0.059 B	0.041 B	0.035 U	0.088	0.079 B	0.069 B		0.066 B	0.04 B	0.042 B	0.054 B	0.054 B
Nickel	48.9			21.5				25.3					18.9		
Potassium	2,343			1570				1790 E					1110 E		
*Selenium	2			1.5 UN				1.4 U					1.3 U		
Silver	0.763			0.28 U				0.27 U					0.24 U		
Sodium	170.3			77.6 B				48.3 B					51.5 B		
Thallium	0.67			2.8 U				2.7 U					2.4 U		
**Vanadium	150			16.5				20.2					21.1		
Zinc	108.9	73.6 NE	80.1 NE	78.2 N	769 *E	65.1 *E	82.9 *E	127	66.8 *E		83.3 *E	57.6 *E	176	59.1 *E	52.2 *E
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400			34 U				35 U					35 U		
Acenaphthene	50,000			18 U				19 U					19 U		
Acenaphthylene	41,000			13 U				14 U					14 U		
Anthracene	50,000			15 U				15 U					15 U		
Benzo(a)anthracene	224			39 J				19 U					19 U		
Benzo(a)pyrene	61			45 J				22 J					20 U		
Benzo(b)fluoranthene	1,100			46 U				48 U					47 UM		
Benzo(ghi)perylene	50,000			30 J				22 UM					21 UM		
Benzo(k)fluoranthene	1,100			53 J				49 UM					49 UM		
Chrysene	400			56 J				27 J					21 U		
Dibenzo(a,h)anthracene	14			22 U				23 U					22 U		
Fluoranthene	50,000			85 J				46 J					34 J		
Fluorene	50,000			24 U				25 U					25 U		
Indeno(1,2,3-cd)pyrene	3,200			28 J				23 U					22 U		
Naphthalene	13,000			39 U				40 U					40 U		
Phenanthrene	50,000			44 J				30 U					30 UM		
Pyrene	50,000			76 J				39 J					31 J		

Analytical Results for Area 1 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A1-SS-071-FS	FX-A1-SS-072-FS	FX-A1-SS-073-FS	FX-A1-SS-074-FS	FX-A1-SS-075-FS	FX-A1-SS-076-FS	FX-A1-SS-077-FS	FX-A1-SS-078-FS	FX-A1-SS-079-FS	FX-A1-SS-080-FS	FX-A1-SS-081-FS	FX-A1-SS-082-FS	FX-A1-SS-083-FS	FX-A1-SS-084-FS
Depth (inches)		6	6	6	6	6	6	6	6	6	6	6	6	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200		14400				12600				10700				14500
Antimony	5.9		1 UN				1 UN				5 BN				1.1 UN
****Arsenic**	8.24	3.9	7.4 N	3.5	3.8	3.8	6 BN	4.2	2.8	5.4	4.5 BN	3.7	3 B	4.3	5.2 BN
Barium	300		156				337				55.2				117
Beryllium	1.1		0.84 B				0.67 B				0.56 B				0.77 B
**Cadmium	2.3		0.84 U				0.87 U				0.78 U				0.92 U
Calcium	120,500		8470 *				64300 *				26700 *				3350 *
Chromium	29		20.2				16.5				14.9				19.6
**Cobalt	30		23.5				7.1				6.1				11
**Copper	29.6		17				14.6				12.2				11.8
Iron	35,550		26400 *				18900 *				22200 *				22400 *
**Lead[2]	400		37.6				27.5				23.6				30.3
Magnesium	21,500		3380				7740				13100				3050
Manganese	1,056		2510				1070				406				1370
****Mercury**	0.1	0.052 B	0.043 B	0.035 B	0.043 B	0.047 B	0.046 B	0.049 B	0.051 B	0.051 B	0.037 U	0.038 U	0.046 B	0.051 B	0.049 B
Nickel	48.9		25.5				17.7				14.9				19.9
Potassium	2,343		1260 E				1490 E				1070 E				1160 E
*Selenium	2		1.4 U				1.4 U				1.3 U				1.5 U
Silver	0.763		0.25 U				0.26 U				0.24 U				0.28 U
Sodium	170.3		63.1 B				110				74.4				50.5 B
Thallium	0.67		2.5 U				2.6 U				2.4 U				2.8 U
**Vanadium	150		26.4				20.1				17				22.7
Zinc	108.9	72.2 *E	115	58.8	45	55.1	58.4	48.3	47	55.3	52.9	46.1	42.3	56.4	64.8
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400		34 U				33 U				32 U				35 U
Acenaphthene	50,000		18 U				17 U				17 U				19 U
Acenaphthylene	41,000		13 U				13 U				24 J				14 U
Anthracene	50,000		15 U				14 U				14 U				15 U
Benzo(a)anthracene	224		18 U				17 UM				17 UM				23 J
Benzo(a)pyrene	61		19 U				19 UM				18 UM				25 JM
Benzo(b)fluoranthene	1,100		46 U				44 UM				44 UM				48 UH
Benzo(ghi)perylene	50,000		21 U				20 U				20 U				22 J
Benzo(k)fluoranthene	1,100		47 U				45 UM				45 UM				49 U
Chrysene	400		21 U				20 UM				20 UM				29 J
Dibenzo(a,h)anthracene	14		22 U				21 U				21 U				23 U
Fluoranthene	50,000		27 U				26 U				25 U				35 J
Fluorene	50,000		24 U				23 U				23 U				25 U
Indeno(1,2,3-cd)pyrene	3,200		22 U				21 U				21 U				23 U
Naphthalene	13,000		39 U				37 U				37 U				40 U
Phenanthrene	50,000		29 UM				28 UM				28 U				30 UM
Pyrene	50,000		23 U				22 U				22 U				34 J

Analytical Results for Area 1 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A1-SS-085-FS	FX-A1-SS-086-FS	FX-A1-SS-087-FS	FX-A1-SS-088-FS	FX-A1-SS-089-FS	FX-A1-SS-090-FS	FX-A1-SS-091-FS	FX-A1-SS-092-FS	FX-A1-SS-093-FS	FX-A1-SS-094-FS	FX-A1-SS-095-FS	FX-A1-SS-096-FS	FX-A1-SS-096-FS2	FX-A1-SS-097-FS
Depth (inches)		6	6	6	6	6	6	6	6	6	6	6	6	12	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200				13800				15600						15000
Antimony	5.9				1 UN				0.84 UN						1.5 UN
****Arsenic**	8.24	3.5 B	3.4	4.2	5.4 B	6.1	6.8	3.8	5 B	5.7	4.8 *	5.4 *		6.1	
Barium	300				79.7				105						148
Beryllium	1.1				0.62 B				0.77 B						0.92 B
**Cadmium	2.3				0.83 UN				0.7 UN						1.3 U
Calcium	120,500				14800 *				5050 *						4380 *
Chromium	29				21				22						22.7
**Cobalt	30				9.6				10.4						20.2 *
**Copper	29.6				20.7				19.4						25.3 *
Iron	35,550				22000				23100						30100
**Lead[2]	400				29.3				30.7						20.1
Magnesium	21,500				5530 N				3660 N						4400 *
Manganese	1,056				383				566						1910
****Mercury**	0.1	0.045 B	0.048 B	0.045 B	0.041 B	0.047 B	0.059 B	0.038 B	0.045 B	0.075	0.052 B	0.048 B	0.047 B		0.051 B
Nickel	48.9				27				23.4						40.9 *
Potassium	2,343				1520				1540						1570
*Selenium	2				1.3 U				1.1 U						2 U
Silver	0.763				0.25 U				0.21 U						0.38 U
Sodium	170.3				95				73.2						65.9 B
Thallium	0.67				2.5 U				2.1 U						3.8 U
**Vanadium	150				21.5				25.4						28
Zinc	108.9	82.7	40.6	46.3	84.6	62.6	61.3	58.8	83.4	74.1	76.4 *NE	75.9 *NE	61.5		88.9
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400				33 U				34 U						36 U
Acenaphthene	50,000				18 U				18 U						19 U
Acenaphthylene	41,000				13 U				13 U						14 UB
Anthracene	50,000				14 U				15 U						15 UB
Benzo(a)anthracene	224				18 UM				18 UM						19 U
Benzo(a)pyrene	61				19 U				19 U						20 U
Benzo(b)fluoranthene	1,100				45 UM				46 UM						48 UH
Benzo(ghi)perylene	50,000				20 U				21 U						22 U
Benzo(k)fluoranthene	1,100				46 UM				47 UM						50 U
Chrysene	400				20 UM				21 UM						22 U
Dibenzo(a,h)anthracene	14				21 U				22 U						23 U
Fluoranthene	50,000				26 U				27 U						28 U
Fluorene	50,000				23 U				24 U						25 U
Indeno(1,2,3-cd)pyrene	3,200				21 U				22 U						23 U
Naphthalene	13,000				37 U				39 U						41 U
Phenanthrene	50,000				28 UM				29 UM						31 UB
Pyrene	50,000				22 U				23 U						24 U

Analytical Results for Area 1 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A1-SS-097-FS2	FX-A1-SS-098-FS	FX-A1-SS-098-FS3	FX-A1-SS-099-FS	FX-A1-SS-099-FS2	FX-A1-SS-100-FS	FX-A1-SS-100-FS3	FX-A1-SS-101-FS	FX-A1-SS-101-FS2	FX-A1-SS-102-FS	FX-A1-SS-102-FS3	FX-A1-SS-103-FS	FX-A1-SS-103-FS2	FX-A1-SS-104-FS
Depth (inches)		12	6	18	6	12	6	18	6	12	6	18	6	12	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200								12100						
Antimony	5.9								1.5 UN						
****Arsenic**	8.24	7.1		7.2		4.24 B		7.7		7.05		5.1		6.95	
Barium	300								107						
Beryllium	1.1								0.69 B						
**Cadmium	2.3								1.2 U						
Calcium	120,500								3280 *						
Chromium	29								19.1						
**Cobalt	30								11.2 *						
**Copper	29.6								21.5 *						
Iron	35,550								23800						
**Lead[2]	400								18.4						
Magnesium	21,500								3850 *						
Manganese	1,056								955						
****Mercury**	0.1		0.052 B		0.054 B		0.049 B		0.053 B		0.057 B		0.07 B		0.062 B
Nickel	48.9								28.6 *						
Potassium	2,343								1410						
*Selenium	2								1.9 U						
Silver	0.763								0.36 U						
Sodium	170.3								58.6 B						
Thallium	0.67								3.6 U						
**Vanadium	150								21.6						
Zinc	108.9		70.5		76.3		67.6		74.6		73.8		73.2		95.9
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400								36 U						
Acenaphthene	50,000								19 U						
Acenaphthylene	41,000								14 UB						
Anthracene	50,000								15 UB						
Benzo(a)anthracene	224								19 U						
Benzo(a)pyrene	61								21 U						
Benzo(b)fluoranthene	1,100								49 UM						
Benzo(ghi)perylene	50,000								22 U						
Benzo(k)fluoranthene	1,100								50 UM						
Chrysene	400								22 U						
Dibenzo(a,h)anthracene	14								23 U						
Fluoranthene	50,000								35 J						
Fluorene	50,000								26 U						
Indeno(1,2,3-cd)pyrene	3,200								23 U						
Naphthalene	13,000								41 U						
Phenanthrene	50,000								31 UB						
Pyrene	50,000								31 J						

Analytical Results for Area 1 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A1-SS-105-FS	FX-A1-SS-105-FS2	FX-A1-SS-106-FS	FX-A1-SS-106-FS2	FX-A1-SS-107-FS	FX-A1-SS-107-FS2	FX-A1-SS-108-FS	FX-A1-SS-108-FS2	FX-A1-SS-109-FS	FX-A1-SS-109-FS2	FX-A1-SS-109-FS3	FX-A1-SS-110-FS	FX-A1-SS-111-FS
Depth (inches)		6	12	6	12	6	12	6	12	6	12	18	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200	15000								13900				
Antimony	5.9	1.6 UN								1.5 UN				
****Arsenic**	8.24		9.72		5.64		6.05		11.8			5.1	6.6 N	
Barium	300	136								103				
Beryllium	1.1	0.8 B								0.79 B				
**Cadmium	2.3	1.4 U								1.3 U				
Calcium	120,500	3610 *								3950 *				
Chromium	29	22.7								21.3				
**Cobalt	30	10.7 *								11.3 *				
**Copper	29.6	20.4 *								22.4 *				
Iron	35,550	25300								26600				
****Lead**	400	19.1								21.4				
Magnesium	21,500	4110 *								4280 *				
Manganese	1,056	589								744				
****Mercury**	0.1	0.056 B		0.053 B		0.072 B		0.073 B		0.061 B			0.039 B	0.047 B
Nickel	48.9	28.7 *								30.7 *				
Potassium	2,343	1640								2000				
*Selenium	2	2.2 U								2 U				
Silver	0.763	0.41 U								0.38 U				
Sodium	170.3	61 B								62.1 B				
Thallium	0.67	4.1 U								3.8 U				
**Vanadium	150	24.3								23.1				
Zinc	108.9	78.5		91.5		104		94.8		90.7			68.9	113
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400	38 U									34 U			
Acenaphthene	50,000	20 U									18 U			
Acenaphthylene	41,000	15 UB									13 U			
Anthracene	50,000	16 UB									14 U			
Benzo(a)anthracene	224	20 U									18 U			
Benzo(a)pyrene	61	22 U									19 U			
Benzo(b)fluoranthene	1,100	52 U									46 U			
Benzo(ghi)perylene	50,000	23 U									20 U			
Benzo(k)fluoranthene	1,100	53 U									47 U			
Chrysene	400	23 U									20 U			
Dibenzo(a,h)anthracene	14	24 U									22 U			
Fluoranthene	50,000	30 U									26 U			
Fluorene	50,000	27 U									24 U			
Indeno(1,2,3-cd)pyrene	3,200	24 U									22 U			
Naphthalene	13,000	43 U									38 U			
Phenanthrene	50,000	33 UB									29 U			
Pyrene	50,000	26 U									23 U			

Analytical Results for Area 1 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A1-SS-111-FS2	FX-A1-SS-112-FS	FX-A1-SS-112-FS3	FX-A1-SS-113-FS	FX-A1-SS-113-FS2	FX-A1-SS-114-FS	FX-A1-SS-114-FS3	FX-A1-SS-115-FS	FX-A1-SS-115-FS2	FX-A1-SS-116-FS	FX-A1-SS-116-FS2	FX-A1-SS-117-FS	FX-A1-SS-117-FS2
Depth (inches)		12	6	18	6	12	6	18	6	12	6	12	6	12
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200								12100					
Antimony	5.9								1.4 UN					
****Arsenic**	8.24	6.5 B		7.4		5.7		4		6.5		6		7
Barium	300								108					
Beryllium	1.1								0.69 B					
**Cadmium	2.3								1.2 U					
Calcium	120,500								3550 *					
Chromium	29								17.9					
**Cobalt	30								11 *					
**Copper	29.6								14.6 *					
Iron	35,550								23200					
****Lead**	400								16.7					
Magnesium	21,500								2930 *					
Manganese	1,056								849					
****Mercury**	0.1		0.049 B		0.054 B		0.042 B		0.048 B		0.051 B		0.047 BN	
Nickel	48.9								19.7 *					
Potassium	2,343								1000					
*Selenium	2								1.9 U					
Silver	0.763								0.36 U					
Sodium	170.3								44 B					
Thallium	0.67								3.6 U					
**Vanadium	150								23.1					
Zinc	108.9		77		91.2		78.1		58.2		99.4		88.5 E	
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400								35 U					
Acenaphthene	50,000								19 U					
Acenaphthylene	41,000								14 UB					
Anthracene	50,000								15 UB					
Benzo(a)anthracene	224								19 U					
Benzo(a)pyrene	61								20 U					
Benzo(b)fluoranthene	1,100								47 UM					
Benzo(ghi)perylene	50,000								21 U					
Benzo(k)fluoranthene	1,100								49 UM					
Chrysene	400								21 U					
Dibenzo(a,h)anthracene	14								22 U					
Fluoranthene	50,000								27 U					
Fluorene	50,000								25 U					
Indeno(1,2,3-cd)pyrene	3,200								22 U					
Naphthalene	13,000								40 U					
Phenanthrene	50,000								30 UB					
Pyrene	50,000								24 U					

Analytical Results for Area 1 - FLOOR
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Compound	[1]Cleanup Goal	FX-A1-SS-118-FS	FX-A1-SS-118-FS2	FX-A1-SS-118-FS3	FX-A1-SS-119-FS	FX-A1-SS-119-FS2	FX-A1-SS-120-FS	FX-A1-SS-120-FS2	FX-A1-SS-121-FS	FX-A1-SS-121-FS2	FX-A1-SS-122-FS	FX-A1-SS-122-FS2	FX-A1-SS-123-FS	FX-A1-SS-123-FS3
Depth (inches)		6	12	18	6	12	6	12	6	12	6	12	6	18
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200								14800					
Antimony	5.9								1.3 B*					
****Arsenic**	8.24		10.2			12.6		4.3 B		4 B		3.5 B		3.9
Barium	300								202					
Beryllium	1.1								0.8 B					
**Cadmium	2.3								0.91 U					
Calcium	120,500								11100					
Chromium	29								26 N					
**Cobalt	30								12.6					
**Copper	29.6								19.5 *					
Iron	35,550								27500					
****Lead**	400								27.3					
Magnesium	21,500								4520					
Manganese	1,056								1400					
****Mercury**	0.1			0.05 U	0.05 BN		0.045 BN		0.043 BN		0.043 BN		0.076 B	
Nickel	48.9								26.7					
Potassium	2,343								1560					
*Selenium	2								1.5 U					
Silver	0.763								0.27 U					
Sodium	170.3								85.1 B					
Thallium	0.67								2.7 UN					
**Vanadium	150								27.3					
Zinc	108.9	100 E			117 E		98.5 E		92.5		74.5 E		66.2	
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400								32 U					
Acenaphthene	50,000								17 U					
Acenaphthylene	41,000								13 U					
Anthracene	50,000								14 U					
Benzo(a)anthracene	224								17 J					
Benzo(a)pyrene	61								28 J					
Benzo(b)fluoranthene	1,100								43 UM					
Benzo(ghi)perylene	50,000								25 J					
Benzo(k)fluoranthene	1,100								44 UM					
Chrysene	400								23 J					
Dibenzo(a,h)anthracene	14								20 U					
Fluoranthene	50,000								30 J					
Fluorene	50,000								23 U					
Indeno(1,2,3-cd)pyrene	3,200								20 U					
Naphthalene	13,000								36 UM					
Phenanthrene	50,000								27 U					
Pyrene	50,000								43 J					

Analytical Results for Area 1 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A1-SS-124-FS	FX-A1-SS-124-FS3	FX-A1-SS-125-FS3	FX-A1-SS-126-FS3	FX-A1-SS-127-FS3
Depth (inches)		6	18	18	18	18
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200					
Antimony	5.9					
****Arsenic**	8.24		4.7	10.9 *	16.3 *	
Barium	300					
Beryllium	1.1					
**Cadmium	2.3					
Calcium	120,500					
Chromium	29					
**Cobalt	30					
**Copper	29.6					
Iron	35,550					
****Lead**	400					
Magnesium	21,500					
Manganese	1,056					
****Mercury**	0.1	0.042 B				0.052 B
Nickel	48.9					
Potassium	2,343					
*Selenium	2					
Silver	0.763					
Sodium	170.3					
Thallium	0.67					
**Vanadium	150					
Zinc	108.9	75.6				
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400					
Acenaphthene	50,000					
Acenaphthylene	41,000					
Anthracene	50,000					
Benzo(a)anthracene	224					
Benzo(a)pyrene	61					
Benzo(b)fluoranthene	1,100					
Benzo(ghi)perylene	50,000					
Benzo(k)fluoranthene	1,100					
Chrysene	400					
Dibenzo(a,h)anthracene	14					
Fluoranthene	50,000					
Fluorene	50,000					
Indeno(1,2,3-cd)pyrene	3,200					
Naphthalene	13,000					
Phenanthrene	50,000					
Pyrene	50,000					

Analytical Results for Area 1 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A1-SS-001-FS	PX-A1-SS-002-FS	PX-A1-SS-003-FS	PX-A1-SS-004-FS	PX-A1-SS-005-FS	PX-A1-SS-006-FS	PX-A1-SS-007-FS	PX-A1-SS-008-FS	PX-A1-SS-009-FS	PX-A1-SS-010-FS	PX-A1-SS-011-FS	PX-A1-SS-012-FS	PX-A1-SS-013-FS	PX-A1-SS-014-FS	PX-A1-SS-015-FS
Depth (in) / Distance (ft)		6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200				11300				15600				9750			
Antimony	5.9				12.2 BN				1.4 BN				1.3 UN			
**Arsenic	8.24	4.6	4.5	4.3	4.6 B	5.2	4.3	5.1	9.4	4.4	5.2	4.2	3.9 B	5	5	3
Barium	300				58.6				45.6				56.2			
Beryllium	1.1				0.55 U				0.71 B				0.55 U			
**Cadmium	2.3				1.1 UN				0.97 UN				1.1 UN			
Calcium	120,500				5210 *				8160 *				2610 *			
Chromium	29				19				25.2				16			
**Cobalt	30				8.6				15.3				5.3			
**Copper	29.6				17.2				23.8				10.4			
Iron	35,550				20300				33700				15300			
**Lead	400				27.1 *				12.9 *				32.3 *			
Magnesium	21,500				3720 *				6710 *				2400 *			
Manganese	1,056				222 *				589 *				176 *			
**Mercury	0.1	0.043 U	0.046 U	0.044 U	0.055 U	0.051 U	0.045 U	0.048 U	0.04 U	0.046 U	0.048 U	0.047 U	0.061 B	0.055 U	0.034 U	0.033 U
Nickel	48.9				26.4				39.8				14.1			
Potassium	2,343				1060 *				1160 *				724 *			
*Selenium	2				1.8 U				1.5 U				1.8 U			
Silver	0.763				0.33 U				0.29 U				0.33 U			
Sodium	170.3				55.2 B*				79.7 B*				37.5 B*			
Thallium	0.67				3.3 U				2.9 U				3.3 U			
**Vanadium	150				19.9				19.2				18.5			
Zinc	108.9	130 E	83.1 E	88.6 E	75.3	91.3 E	159 E	155 E	88.5	259 E	90 E	119 E	55.9	68.2 E	101 NE	49.3 NE
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400				36 U				32 U				37 U			
Acenaphthene	50,000				19 U				17 U				20 U			
Acenaphthylene	41,000				14 U				13 U				15 U			
Anthracene	50,000				15 U				14 U				16 U			
Benzo(a)anthracene	224				19 U				17 U				28 J			
Benzo(a)pyrene	61				20 U				18 U				30 J			
Benzo(b)fluoranthene	1,100				48 UH				44 UH				51 UH			
Benzo(ghi)perylene	50,000				22 U				20 U				23 U			
Benzo(k)fluoranthene	1,100				50 U				45 U				52 U			
Chrysene	400				22 U				20 U				38 J			
Dibenzo(a,h)anthracene	14				23 U				21 U				24 U			
Fluoranthene	50,000				28 U				25 U				65 J			
Fluorene	50,000				26 U				23 U				27 U			
Indeno(1,2,3-cd)pyrene	3,200				23 U				21 U				24 U			
Naphthalene	13,000				41 U				37 U				43 U			
Phenanthrene	50,000				31 U				28 U				37 J			
Pyrene	50,000				24 U				22 U				48 J			

Analytical Results for Area 1 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A1-SS-016-FS	PX-A1-SS-017-FS	PX-A1-SS-018-FS	PX-A1-SS-019-FS	PX-A1-SS-020-FS	PX-A1-SS-021-FS	PX-A1-SS-022-FS	PX-A1-SS-023-FS	PX-A1-SS-024-FS	PX-A1-SS-025-FS	PX-A1-SS-026-FS	PX-A1-SS-026-FS2	PX-A1-SS-027-FS	PX-A1-SS-028-FS	PX-A1-SS-028-FS-S-10(2-3)
Depth (in) / Distance (ft)		6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 3	6 / 0	6 / 0	36 / 10
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200	8900				10700						12100				
Antimony	5.9	0.92 UN				1.2 UN						1.3 UN				
****Arsenic**	8.24	3.9 B	4.9	5	5.5	5.6 B	4.4	5.1	5.4	5.7	5.7	7.6 BN		4.2		
Barium	300	25.4				46.8						78.3				
Beryllium	1.1	0.44 B				0.56 B						0.69 B				
**Cadmium	2.3	0.77 UN				1 UN						1 U				
Calcium	120,500	15100				14400						26500 *				
Chromium	29	17 N				24.9 N						21.6				
**Cobalt	30	8.5				10.9						10.8				
**Copper	29.6	24.4				30.6						23.7				
Iron	35,550	20000				24700						22000 *				
****Lead**	400	23.9 N				76.3 N						41.3				
Magnesium	21,500	4370 *				6450 *						13800				
Manganese	1,056	281				372						619				
****Mercury**	0.1	0.032 U	0.04 U	0.044 B	0.047 B	0.05 B	0.038 U	0.04 B	0.051 B	0.047 B	0.059 B	0.048 B		0.067 B		0.047 U
Nickel	48.9	29.6				42.2						29.7				
Potassium	2,343	903				1360						2790 E				
*Selenium	2	1.2 UN				1.6 UN						1.7 U				
Silver	0.763	0.23 U				0.3 U						0.31 U				
Sodium	170.3	63.6 B				67.3 B						84.5 B				
Thallium	0.67	2.3 U				3 U						3.1 U				
**Vanadium	150	11.6				15.7						18.4				
Zinc	108.9	72.2 N	185 NE	1460 NE	259 NE	150 N	1960 NE	250 NE	164 NE	124 NE	186 NE	103		82.3 *E	106 *E	
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400	30 U				33 U							32 U			
Acenaphthene	50,000	16 U				18 U							17 U			
Acenaphthylene	41,000	12 U				13 U							13 U			
Anthracene	50,000	13 U				14 U							14 U			
Benzo(a)anthracene	224	16 U				23 J							19 J			
Benzo(a)pyrene	61	17 UM				24 J							22 J			
Benzo(b)fluoranthene	1,100	41 UM				45 UM							44 UH			
Benzo(ghi)perylene	50,000	18 UM				22 J							20 U			
Benzo(k)fluoranthene	1,100	42 UM				47 UM							45 U			
Chrysene	400	23 J				45 J							32 J			
Dibenzo(a,h)anthracene	14	19 U				22 U							21 U			
Fluoranthene	50,000	29 J				57 J							42 J			
Fluorene	50,000	22 U				24 U							23 U			
Indeno(1,2,3-cd)pyrene	3,200	19 U				22 UM							21 U			
Naphthalene	13,000	35 U				38 U							37 U			
Phenanthrene	50,000	28 J				47 J							30 J			
Pyrene	50,000	26 J				49 J							41 J			

Analytical Results for Area 1 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A1-SS-028-FS2-S-045(1-2)	PX-A1-SS-029-FS	PX-A1-SS-030-FS	PX-A1-SS-030-FS7-E-10(1-2)	PX-A1-SS-030-FS8-E-25(0-1)	PX-A1-SS-030-FS-N-10(1-2)	PX-A1-SS-030-FS-S-10(1-2)	PX-A1-SS-031-FS	PX-A1-SS-032-FS	PX-A1-SS-033-FS	PX-A1-SS-034-FS	PX-A1-SS-035-FS	PX-A1-SS-036-FS	PX-A1-SS-037-FS	PX-A1-SS-038-FS
Depth (in) / Distance (ft)		24 / 45	6 / 0	6 / 0	24 / 10	12 / 25	24 / 10	24 / 10	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200			####								14000				11900
Antimony	5.9			1.1 BN								1.5 BN				6.7 BN
**Arsenic	8.24		4.5		7.8	7.2 B	6.9	5.6	5.7	3.7	2.5 B	4.7 BN	3.7	5.4	2.4 B	3.5 BN
Barium	300			80.5								78.3				45.4
Beryllium	1.1			0.64 B								0.69 B				0.57 B
**Cadmium	2.3			0.78 U								0.85 U				0.79 U
Calcium	120,500			8160 *								14000 *				23900 *
Chromium	29			22.5								21.5				20.5
**Cobalt	30			10.1								9.1				8.4
**Copper	29.6			29.6								22.8				22
Iron	35,550			#### *								23600 *				23200 *
**Lead	400			67.1								27.3				21.7
Magnesium	21,500			4150								4920				6780
Manganese	1,056			438								353				339
**Mercury	0.1	0.56	0.038 U	0.06 B					0.038 U	0.059 B	0.044 B	0.038 U	0.032 U	0.04 U	0.043 B	0.034 U
Nickel	48.9			32.6								33.3				34.5
Potassium	2,343			2190 E								1720 E				1360 E
*Selenium	2			1.3 U								1.4 U				1.3 U
Silver	0.763			0.24 U								0.26 U				0.24 U
Sodium	170.3			58.2 B								86.1				97.2
Thallium	0.67			2.4 U								2.6 U				2.4 U
**Vanadium	150			17.9								19.7				14.5
Zinc	108.9		59.2 *E	339					147 *E	49.2 *E	45.7 *E	77.3	79.2 *E	83.4 *E	183 *E	63.8
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400			35 U								34 U				32 U
Acenaphthene	50,000			19 U								18 U				17 U
Acenaphthylene	41,000			14 UM								13 U				12 U
Anthracene	50,000			15 U								15 U				14 U
Benzo(a)anthracene	224			59 J								20 J				17 U
Benzo(a)pyrene	61			71 J								22 J				18 U
Benzo(b)fluoranthene	1,100			67 J								46 UM				43 UM
Benzo(ghi)perylene	50,000			21 UM								21 UM				19 U
Benzo(k)fluoranthene	1,100			70 J								47 UM				44 UM
Chrysene	400			82 J								32 J				27 J
Dibenzo(a,h)anthracene	14			23 U								22 U				20 U
Fluoranthene	50,000			130 J								48 J				37 J
Fluorene	50,000			25 U								24 U				23 UM
Indeno(1,2,3-cd)pyrene	3,200			23 U								22 U				20 U
Naphthalene	13,000			40 UM								39 UM				36 UM
Phenanthrene	50,000			84 J								37 J				33 J
Pyrene	50,000			110 J								42 J				34 J

Analytical Results for Area 1 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A1-SS-039-FS	PX-A1-SS-040-FS	PX-A1-SS-041-FS	PX-A1-SS-041-FS2	PX-A1-SS-042-FS	PX-A1-SS-043-FS	PX-A1-SS-043-FS2	PX-A1-SS-044-FS	PX-A1-SS-044-FS2	PX-A1-SS-045-FS	PX-A1-SS-045-FS2	PX-A1-SS-046-FS	PX-A1-SS-046-FS2
Depth (in) / Distance (ft)		6 / 0	6 / 0	6 / 0	6 / 3	6 / 0	6 / 0	12 / 0	6 / 0	12 / 0	6 / 0	12 / 0	6 / 0	12 / 0
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200						11000							
Antimony	5.9						1.4 UN							
****Arsenic**	8.24	3.7	4.2		6.2	6 *	7.8 B*			6.9		5.6		4.2
Barium	300						63.2							
Beryllium	1.1						0.6 U							
**Cadmium	2.3						1.2 U							
Calcium	120,500						59500 *							
Chromium	29						18.7							
**Cobalt	30						9.5 *							
**Copper	29.6						18.3 *							
Iron	35,550						21600							
****Lead**	400						27.2							
Magnesium	21,500						5570 *							
Manganese	1,056						476							
****Mercury**	0.1	0.036 U	0.035 U	0.093 B		0.077 B	0.057 B		0.067 B		0.076 B		0.039 U	
Nickel	48.9						27.6 *							
Potassium	2,343						1820							
*Selenium	2						1.9 U							
Silver	0.763						0.36 U							
Sodium	170.3						89.3 B							
Thallium	0.67						3.6 U							
**Vanadium	150						19.2							
Zinc	108.9	149	86	105		82.2 *	88.8		129 *		157 *		94.2 *	
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400							34 U						
Acenaphthene	50,000							18 U						
Acenaphthylene	41,000							37 J						
Anthracene	50,000							25 J						
Benzo(a)anthracene	224							94 J						
Benzo(a)pyrene	61							120 J						
Benzo(b)fluoranthene	1,100							110 JH						
Benzo(ghi)perylene	50,000							120 J						
Benzo(k)fluoranthene	1,100							95 J						
Chrysene	400							110 J						
Dibenzo(a,h)anthracene	14							35 JH						
Fluoranthene	50,000							160 J						
Fluorene	50,000							24 U						
Indeno(1,2,3-cd)pyrene	3,200							86 J						
Naphthalene	13,000							38 U						
Phenanthrene	50,000							63 J						
Pyrene	50,000							190 J						

Analytical Results for Area 1 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A1-SS-047-FS	PX-A1-SS-047-FS2	PX-A1-SS-048-FS	[3]PX-A1-SS-048-FS2	PX-A1-SS-049-FS	PX-A1-SS-050-FS	PX-A1-SS-050-FS2	PX-A1-SS-051-FS	PX-A1-SS-051-FS2	PX-A1-SS-052-FS	PX-A1-SS-052-FS2	PX-A1-SS-053-FS	PX-A1-SS-053-FS2	PX-A1-SS-054-FS
Depth (in) / Distance (ft)		6 / 0	12 / 0	6 / 0	12 / 0	6 / 0	6 / 0	12 / 0	6 / 0	12 / 0	6 / 0	12 / 0	6 / 0	12 / 0	6 / 0
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200			14800									13900		
Antimony	5.9			1.5 UN									1.5 UN		
****Arsenic**	8.24		4.2	5.9 B*		7.1 *		4.9		5		5.5		9	
Barium	300			121									57.8		
Beryllium	1.1			0.8 B									0.7 B		
**Cadmium	2.3			1.3 U									1.2 U		
Calcium	120,500			3390 *									29100 *		
Chromium	29			20.7									24.9		
**Cobalt	30			10.7 *									13.4 *		
**Copper	29.6			21.6 *									17.6 *		
Iron	35,550			24900									30100		
****Lead**	400			12.4									21.9		
Magnesium	21,500			4110 *									6860 *		
Manganese	1,056			758									840		
****Mercury**	0.1	0.049 B		0.074 B		0.047 B	0.075 B		0.044 B		0.039 B		0.05 B		0.058 B
Nickel	48.9			26.9 *									36.9 *		
Potassium	2,343			1680									1220		
*Selenium	2			2 U									1.9 U		
Silver	0.763			0.38 U									0.36 U		
Sodium	170.3			64.4 B									135		
Thallium	0.67			3.8 U									3.6 U		
**Vanadium	150			24.9									20.8		
Zinc	108.9	79 *		72.7		64.6 *	98.9 *		53.1 *		61.7 *		65.9		73.6 *
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400				35 U									36 U	
Acenaphthene	50,000				19 U									19 U	
Acenaphthylene	41,000				19 J									14 U	
Anthracene	50,000				38 J									15 U	
Benzo(a)anthracene	224				160 J									44 J	
Benzo(a)pyrene	61				140 J									47 J	
Benzo(b)fluoranthene	1,100				140 JH									48 UH	
Benzo(ghi)perylene	50,000				99 J									34 J	
Benzo(k)fluoranthene	1,100				150 J									50 U	
Chrysene	400				180 J									54 J	
Dibenzo(a,h)anthracene	14				35 JH									23 UM	
Fluoranthene	50,000				340 J									94 J	
Fluorene	50,000				25 UM									25 U	
Indeno(1,2,3-cd)pyrene	3,200				87 J									30 J	
Naphthalene	13,000				40 UM									41 U	
Phenanthrene	50,000				200 J									48 J	
Pyrene	50,000				320 J									97 J	

Analytical Results for Area 1 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A1-SS-054-FS2	PX-A1-SS-055-FS	PX-A1-SS-055-FS2	PX-A1-SS-056-FS	PX-A1-SS-056-FS2	PX-A1-SS-057-FS	PX-A1-SS-057-FS2	PX-A1-SS-058-FS	PX-A1-SS-058-FS2	[3]PX-A1-SS-059-FS	PX-A1-SS-059-FS3	PX-A1-SS-060-FS	PX-A1-SS-060-FS3	PX-A1-SS-061-FS	PX-A1-SS-061-FS5
Depth (in) / Distance (ft)		12 / 0	6 / 0	12 / 0	6 / 0	12 / 0	6 / 0	12 / 0	6 / 0	12 / 0	6 / 0	18 / 0	6 / 0	18 / 3	6 / 0	24 / 10
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200														13700	
Antimony	5.9														1.5 B*	
****Arsenic**	8.24	6.4		8.5		4.6		5.3		4.8		4.4		3.3 B		9
Barium	300														92.2	
Beryllium	1.1														0.69 B	
**Cadmium	2.3														0.94 U	
Calcium	120,500														15500	
Chromium	29														23.7 N	
**Cobalt	30														8.3	
**Copper	29.6														19.6 *	
Iron	35,550														22600	
****Lead**	400														42	
Magnesium	21,500														7020	
Manganese	1,056														344	
****Mercury**	0.1		0.039 U		0.05 B		0.046 B		0.041 UN		0.18 N		0.066 BN		0.068 BN	
Nickel	48.9														24.3	
Potassium	2,343														1630	
*Selenium	2														1.5 U	
Silver	0.763														0.28 U	
Sodium	170.3														88 B	
Thallium	0.67														2.8 UN	
**Vanadium	150														24.1	
Zinc	108.9		61.6 *		74.9 *		65.9 *		86.8 E		78.3 E		124 E		95.8	
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400														37 U	
Acenaphthene	50,000														20 U	
Acenaphthylene	41,000														14 U	
Anthracene	50,000														18 J	
Benzo(a)anthracene	224														57 J	
Benzo(a)pyrene	61														64 J	
Benzo(b)fluoranthene	1,100														62 JM	
Benzo(ghi)perylene	50,000														41 J	
Benzo(k)fluoranthene	1,100														65 JM	
Chrysene	400														79 J	
Dibenzo(a,h)anthracene	14														24 U	
Fluoranthene	50,000														130 J	
Fluorene	50,000														26 UM	
Indeno(1,2,3-cd)pyrene	3,200														37 J	
Naphthalene	13,000														42 UM	
Phenanthrene	50,000														100 J	
Pyrene	50,000														160 J	

Analytical Results for Area 2 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A2-SS-01-FS	FX-A2-SS-02-FS	FX-A2-SS-03-FS	FX-A2-SS-04-FS	FX-A2-SS-05-FS	FX-A2-SS-06-FS	FX-A2-SS-07-FS	FX-A2-SS-08-FS	FX-A2-SS-09-FS	FX-A2-SS-10-FS	FX-A2-SS-11-FS	FX-A2-SS-12-FS	FX-A2-SS-13-FS	FX-A2-SS-14-FS	FX-A2-SS-15-FS	FX-A2-SS-16-FS
Depth (inches)		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200				17700				16700				15000				14400
Antimony	5.9				0.9 UN				0.93 UN				0.81 UN				0.96 UN
****Arsenic**	8.24	4.9	4.9	4.8	6.8	4.7	4.5	4.3	6.2 B	5.7	4.8	5.1	5.9	4.3	4.9	4.6	5 B
Barium	300				118				114				99.4				92.8
Beryllium	1.1				0.98 B				0.84 B				0.75 B				0.7 B
**Cadmium	2.3				0.86 BN				0.97 BN				0.87 BN				0.8 BN
Calcium	120,500				4050 *				7960 *				5610 *				3780 *
Chromium	29				24.6				26.2				24.3				22.8
**Cobalt	30				18.6				10.5				11				10.9
**Copper	29.6				21.7				20.2				17.6				17.3
Iron	35,550				30700				27500				23700				21600
****Lead**	400				25.4				52				52.2				39.9
Magnesium	21,500				4600 N				4540 N				4180 N				3410 N
Manganese	1,056				1190				638				749				640
****Mercury**	0.1	0.052 B	0.039 B	0.047 B	0.047 B	0.049 B	0.051 B	0.051 B	0.058 B	0.045 B	0.048 B	0.049 B	0.052 B	0.042 B	0.047 B	0.057 B	0.044 B
Nickel	48.9				31.4				25.3				25.1				22.3
Potassium	2,343				1850				1920				1460				1400
*Selenium	2				1.2 U				1.2 U				1.1 U				1.3 U
Silver	0.763				0.22 U				0.23 U				0.2 U				0.24 U
Sodium	170.3				75.8				83.7				63.3 B				66 B
Thallium	0.67				2.2 U				2.3 U				2 U				2.4 U
**Vanadium	150				27.1				25.8				23.4				23.3
Zinc	108.9	74.3	59.1	64.5	86.8	121	64	62.1	108	78.9	58.6	58.4	82.4	59.3	67.4	59.2	71.7
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400				35 U				35 U				34 U				34 U
Acenaphthene	50,000				19 U				19 U				18 U				18 U
Acenaphthylene	41,000				14 U				14 U				13 U				14 U
Anthracene	50,000				15 U				15 U				15 U				15 U
Benzo(a)anthracene	224				19 UM				19 U				18 J				18 U
Benzo(a)pyrene	61				20 U				20 UM				20 U				20 U
Benzo(b)fluoranthene	1,100				47 UM				47 UM				46 UM				47 UM
Benzo(ghi)perylene	50,000				21 U				21 U				21 U				21 U
Benzo(k)fluoranthene	1,100				48 UM				49 UM				48 UM				48 UM
Chrysene	400				21 UM				21 U				23 J				21 U
Dibenzo(a,h)anthracene	14				22 U				22 U				22 U				22 U
Fluoranthene	50,000				27 U				30 J				32 J				35 J
Fluorene	50,000				25 U				25 U				24 U				25 U
Indeno(1,2,3-cd)pyrene	3,200				22 U				22 U				22 U				22 U
Naphthalene	13,000				40 U				40 U				39 U				39 U
Phenanthrene	50,000				30 UM				30 UM				29 UM				29 U
Pyrene	50,000				24 U				24 U				29 J				27 J

Analytical Results for Area 2 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A2-SS-01-FS	PX-A2-SS-02-FS	PX-A2-SS-03-FS	PX-A2-SS-04-FS	PX-A2-SS-05-FS	PX-A2-SS-06-FS	PX-A2-SS-07-FS	PX-A2-SS-08-FS	PX-A2-SS-09-FS	PX-A2-SS-10-FS	PX-A2-SS-11-FS	PX-A2-SS-12-FS	PX-A2-SS-13-FS	PX-A2-SS-14-FS	PX-A2-SS-15-FS	PX-A2-SS-16-FS	PX-A2-SS-16-FS3
*Depth (in) / Distance (ft)		6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200				14400				9350				15200				17000	
Antimony	5.9				1.1 UN				1 UN				1.1 UN				0.85 UN	
**Arsenic	8.24	4.3	3.7	3.3	5.5 B	3.8	4.9	4.3	4.7 B	4.9	4.7	4.5	6.5 B	4.9	4.6	4.5		6.6
Barium	300				88.7				56.7				100				59	
Beryllium	1.1				0.66 B				0.42 U				0.76 B				0.76 B	
**Cadmium	2.3				0.88 UN				0.86 BN				0.95 UN				1.1 BN	
Calcium	120,500				10700 *				43400 *				5040 *				3670 *	
Chromium	29				33.5				27.9				25.8				31.4	
**Cobalt	30				10.7				6.8				9.9				16.7	
**Copper	29.6				28.3				17.6				21.9				31.6	
Iron	35,550				22500				24400				23800				33500	
**Lead	400				115				113				55				57	
Magnesium	21,500				6940 N				20300 N				3990 N				6730 N	
Manganese	1,056				434				434				546				584	
**Mercury	0.1	0.045 B	0.049 B	0.037 U	0.051 B	0.046 U	0.048 B	0.044 B	0.04 U	0.054 B	0.055 B	0.054 B	0.056 B	0.051 B	0.037 U	0.053 B	0.039 U	
Nickel	48.9				31.3				19.2				26.6				42	
Potassium	2,343				2570				2030				2320				2190	
*Selenium	2				1.4 U				1.3 U				1.5 U				1.1 U	
Silver	0.763				0.26 U				0.25 U				0.29 U				0.21 U	
Sodium	170.3				92.7				130				71.3 B				87.6	
Thallium	0.67				2.6 U				2.5 U				2.9 U				2.1 U	
**Vanadium	150				23.9				15.1				24.3				20.4	
**Zinc	108.9	99.4	72.7	75.4	106	45.6	78.8	71.4	86	77.3	74.7	67.1	95.1	65.3	99.6	73.5	131	
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400				38 U				36 U				39 U				34 U	
Acenaphthene	50,000				20 U				19 U				21 U				18 U	
Acenaphthylene	41,000				15 U				14 U				15 U				13 U	
Anthracene	50,000				16 U				15 U				17 U				15 U	
Benzo(a)anthracene	224				24 J				19 U				21 U				20 J	
Benzo(a)pyrene	61				28 J				20 U				22 J				24 J	
Benzo(b)fluoranthene	1,100				52 UM				48 UM				53 UM				46 UM	
Benzo(ghi)perylene	50,000				23 U				22 U				24 U				21 U	
Benzo(k)fluoranthene	1,100				53 UM				50 U				54 UM				47 U	
Chrysene	400				32 J				22 U				28 J				27 J	
Dibenzo(a,h)anthracene	14				25 U				23 U				25 U				22 U	
Fluoranthene	50,000				55 J				30 J				47 J				43 J	
Fluorene	50,000				27 U				25 U				28 U				24 U	
Indeno(1,2,3-cd)pyrene	3,200				25 U				23 U				25 U				22 U	
Naphthalene	13,000				44 U				41 U				44 U				39 U	
Phenanthrene	50,000				36 J				31 U				33 U				31 J	
Pyrene	50,000				49 J				31 J				42 J				43 J	

Analytical Results for Area 3 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A3-SS-01-FS	FX-A3-SS-02-FS	FX-A3-SS-03-FS	FX-A3-SS-04-FS	FX-A3-SS-04-FS-3	FX-A3-SS-05-FS	FX-A3-SS-06-FS	FX-A3-SS-07-FS	FX-A3-SS-08-FS	FX-A3-SS-08-FS-2	FX-A3-SS-09-FS	FX-A3-SS-10-FS	FX-A3-SS-11-FS	FX-A3-SS-12-FS	FX-A3-SS-12-FS-2	FX-A3-SS-13-FS	FX-A3-SS-14-FS	FX-A3-SS-15-FS	FX-A3-SS-16-FS	FX-A3-SS-17-FS3(1.5-2.5)
Depth (inches)		6	6	6	6	18	6	6	6	6	12	6	6	6	6	12	6	6	6	6	30
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200				18700					16900					17400						
Antimony	5.9				1 UN					1 UN					1 UN						
****Arsenic**	8.24	6 *	6.5 *	5.9 *	8.7		7.2 *	6.8 *	5.4 *	7.4		7 *	6.4 *	4.4 *	6.8 B		6.2 *	5.7 *	4.8	4.9	
Barium	300				104					82.3					75						
Beryllium	1.1				0.88 B					0.76 B					0.78 B						
**Cadmium	2.3				0.86 UN					0.83 UN					0.86 UN						
Calcium	120,500				7710 *					25500 *					22900 *						
Chromium	29				26.3					27.4					28.7						
**Cobalt	30				16.7					14.3					12.9						
**Copper	29.6				22.6					23.2					24.2						
Iron	35,550				34100					30800					30500						
****Lead**	400				19.1					40					38						
Magnesium	21,500				5810					8890					9930						
Manganese	1,056				982 *					830 *					591 *						
****Mercury**	0.1	0.036 U	0.04 U	0.049 B	0.042 U		0.045 U	0.043 U	0.038 U	0.037 U		0.043 B	0.04 B	0.042 U	0.044 U		0.045 B	0.044 B	0.054 U	0.089 B	
Nickel	48.9				37.1					40.5					38.1						
Potassium	2,343				1980 E					2300 E					2510 E						
*Selenium	2				1.4 UN					1.3 UN					1.4 UN						
Silver	0.763				0.26 U					0.25 U					0.26 U						
Sodium	170.3				73.6 B					136					176						
Thallium	0.67				2.6 U					2.5 U					2.6 U						
**Vanadium	150				28.5					24.4					24.5						
Zinc	108.9	80.6 *NE	81.5 *NE	96.3 *NE	89.7		86.2 *NE	108 *NE	105 *NE	121		81.4 *NE	90.6 *NE	58 *NE	92		78.1 *NE	99.2 *NE	68.5 *N	93.6 *N	
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400					31 U					31 U					32 U					30 U
Acenaphthene	50,000					16 U					17 U					17 U					16 U
Acenaphthylene	41,000					12 U					12 U					13 U					12 U
Anthracene	50,000					15 J					13 U					14 U					13 U
Benzo(a)anthracene	224					59 J					33 J					29 J					25 JM
Benzo(a)pyrene	61					47 J					28 J					27 J					22
Benzo(b)fluoranthene	1,100					47 J					43 U					44 U					41 UM
Benzo(ghi)perylene	50,000					29 J					19 U					20 U					19 U
Benzo(k)fluoranthene	1,100					44 J					44 U					45 U					42 UM
Chrysene	400					56 J					35 J					36 J					26 J
Dibenzo(a,h)anthracene	14					20 U					20 U					21 U					9 U
Fluoranthene	50,000					130 J					120 J					53 J					46 J
Fluorene	50,000					22 U					22 U					23 U					22 U
Indeno(1,2,3-cd)pyrene	3,200					28 J					20 U					21 U					20 U
Naphthalene	13,000					35 U					36 U					37 U					35 U
Phenanthrene	50,000					36 J					27 U					28 U					26 UM
Pyrene	50,000					100 J					66 J					53 J					48 J

Analytical Results for Area 3 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A3-SS-01-FS	PX-A3-SS-02-FS	PX-A3-SS-03-FS	PX-A3-SS-04-FS	PX-A3-SS-04-FS8-E-25(0-1)	PX-A3-SS-04-FS7-E-10(1-2)	PX-A3-SS-04-FS-S-10(1-2)	PX-A3-SS-05-FS	PX-A3-SS-06-FS	PX-A3-SS-06-FS3	PX-A3-SS-07-FS	PX-A3-SS-08-FS	PX-A3-SS-08-FS3	PX-A3-SS-09-FS	PX-A3-SS-10-FS
Depth (in) / Distance (ft)		6 / 0	6 / 0	6 / 0	6 / 0	12 / 25	24 / 10	24 / 10	6 / 0	6 / 0	6 / 6	6 / 0	6 / 0	6 / 6	6 / 0	6 / 0
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200				17000					17000			17200			
Antimony	5.9				1.1 UN					1.1 UN			1 UN			
****Arsenic**	8.24	2.4 B*	6.6 *	5.1 B*	7.2 B				5.2 *	5.6 B		4.2 *	6.1 B		4.1	5.3
Barium	300				80.9					65.8			93.9			
Beryllium	1.1				0.78 B					0.8 B			0.83 B			
**Cadmium	2.3				0.95 UN					0.9 UN			0.87 BN			
Calcium	120,500				4300 *					24600 *			20100 *			
Chromium	29				25.6					41.2			29.8			
**Cobalt	30				10.7					14.2			13.2			
**Copper	29.6				20.2					40.4			29.9			
Iron	35,550				28900					33300			29100			
****Lead**	400				19.7					117			63.3			
Magnesium	21,500				5280					8450			7540			
Manganese	1,056				455 *					535 *			554 *			
****Mercury**	0.1	0.032 U	0.039 U	0.062 U	0.044 U				0.041 B	0.049 U		0.038 U	0.04 B		0.041 B	0.038 U
Nickel	48.9				33.4					49.9			42			
Potassium	2,343				3250 E					3020 E			3340 E			
*Selenium	2				1.5 UN					1.4 UN			1.3 UN			
Silver	0.763				0.29 U					0.27 U			0.25 U			
Sodium	170.3				65.6 B					140			92			
Thallium	0.67				2.9 U					2.7 U			2.5 U			
**Vanadium	150				26.3					22.4			27.8			
Zinc	108.9	39.9 *NE	78.4 *NE	80.7 *NE	95.6				132 *NE	90		118 *NE	114		67.4 N	81.9 N
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400					34 U	31 U	33 U			32 U			37 U		
Acenaphthene	50,000					18 U	17 U	17 U			17 U			20 U		
Acenaphthylene	41,000					14 U	12 U	13 U			12 UM			15 JM		
Anthracene	50,000					16 J	13 U	14 U			19 J			45 J		
Benzo(a)anthracene	224					74 J	20 JM	17 UM			90 J			100 J		
Benzo(a)pyrene	61					86	19	13			110 J			91 J		
Benzo(b)fluoranthene	1,100					70 JH	42 UM	44 UM			96 JH			76 J		
Benzo(ghi)perylene	50,000					22 J	19 U	20 U			65 J			66 J		
Benzo(k)fluoranthene	1,100					99 J	43 UM	45 UM			90 J			110 J		
Chrysene	400					97 J	24 JM	20 JM			96 J			260 J		
Dibenzo(a,h)anthracene	14					24	9 U	10 U			20 U			23 U		
Fluoranthene	50,000					150 J	42 J	26 UM			180 J			190 J		
Fluorene	50,000					25 U	22 U	23 U			23 UM			26 UM		
Indeno(1,2,3-cd)pyrene	3,200					22 J	20 U	21 U			58 J			58 J		
Naphthalene	13,000					39 U	35 U	37 U			36 U			42 U		
Phenanthrene	50,000					66 J	26 UM	28 U			68 J			110 J		
Pyrene	50,000					150 J	39 J	24 J			210 J			170 J		

Analytical Results for Area 3 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A3-SS-11-FS	PX-A3-SS-12-FS	PX-A3-SS-12-FS-2	PX-A3-SS-13-FS	PX-A3-SS-14-FS	PX-A3-SS-15-FS	PX-A3-SS-16-FS	PX-A3-SS-16-FS-2
Depth (in) / Distance (ft)		6 / 0	6 / 0	6 / 3	6 / 0	6 / 0	6 / 0	6 / 0	6 / 3
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200		9840					14600	
Antimony	5.9		0.83 UN					1 UN	
****Arsenic**	8.24	7.4 *	6.5		3.5 *	4.3 *	4.8 *	5 B	
Barium	300		57					66.9	
Beryllium	1.1		0.5 B					0.68 B	
**Cadmium	2.3		0.72 BN					0.86 UN	
Calcium	120,500		58000 *					17400 *	
Chromium	29		25.1					27.5	
**Cobalt	30		9.5					12.8	
**Copper	29.6		22.4					27.6	
Iron	35,550		21200					28100	
****Lead**	400		73.5					44.6	
Magnesium	21,500		11300					7030	
Manganese	1,056		460 *					416 *	
****Mercury**	0.1	0.047 B	0.035 U		0.038 U	0.042 U	0.037 U	0.04 U	
Nickel	48.9		34.8					45.5	
Potassium	2,343		2390 E					2470 E	
*Selenium	2		1.1 UN					1.4 UN	
Silver	0.763		0.21 U					0.26 U	
Sodium	170.3		134					87.5	
Thallium	0.67		2.1 U					2.6 U	
**Vanadium	150		17.2					20.1	
Zinc	108.9	92.4 *N	72.8		83.9 *N	144 *N	74 *N	80.6	
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400			31 U					31 U
Acenaphthene	50,000			17 U					17 U
Acenaphthylene	41,000			12 U					12 U
Anthracene	50,000			13 U					13 U
Benzo(a)anthracene	224			17 U					66 J
Benzo(a)pyrene	61			18 U					72 J
Benzo(b)fluoranthene	1,100			42 U					76 J
Benzo(ghi)perylene	50,000			19 U					19 U
Benzo(k)fluoranthene	1,100			43 U					90 J
Chrysene	400			19 U					87 J
Dibenzo(a,h)anthracene	14			20 U					20 UM
Fluoranthene	50,000			30 J					250 J
Fluorene	50,000			22 U					22 UM
Indeno(1,2,3-cd)pyrene	3,200			20 U					20 U
Naphthalene	13,000			36 U					36 U
Phenanthrene	50,000			27 U					61 J
Pyrene	50,000			25 J					150 J

Analytical Results for Area 4 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A4-SS-01-FS	FX-A4-SS-01-FS2	FX-A4-SS-02-FS	FX-A4-SS-02-FS2	FX-A4-SS-03-FS	FX-A4-SS-03-FS2	FX-A4-SS-04-FS	FX-A4-SS-05-FS	FX-A4-SS-06-FS	FX-A4-SS-07-FS	FX-A4-SS-08-FS	FX-A4-SS-09-FS	FX-A4-SS-09-FS2	FX-A4-SS-10-FS	FX-A4-SS-11-FS
Depth (inches)		6	12	6	12	6	12	6	6	6	6	6	6	12	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200							16300				15700				
Antimony	5.9							0.95 UN				1 UN				
****Arsenic**	8.24		4.3		10.3		6.5	7.2 N	6.5	7.4	6.6	7.4 N		4.9	4.4 B	5.6
Barium	300							83.7				80				
Beryllium	1.1							0.78 B				0.74 B				
**Cadmium	2.3							0.79 UN				0.84 UN				
Calcium	120,500							9020 *				8770 *				
Chromium	29							23.6				24.1				
**Cobalt	30							13.6				12.3				
**Copper	29.6							21.6				20.4				
Iron	35,550							27400				28900				
****Lead**	400							25				20.5				
Magnesium	21,500							4870				5570				
Manganese	1,056							707				584				
****Mercury**	0.1	0.054 B		0.049 B		0.048 B		0.05 B	0.057 B	0.05 B	0.051 B	0.047 B	0.048 B		0.04 U	0.051 B
Nickel	48.9							32.5				33.6				
Potassium	2,343							1800 E				1730 E				
*Selenium	2							1.3 UN				1.4 UN				
Silver	0.763							0.24 U				0.25 U				
Sodium	170.3							67.8 B				65.3 B				
Thallium	0.67							2.4 U				2.5 U				
**Vanadium	150							23.9				22.1				
Zinc	108.9	70.8		64.4		78.5		91.7	73.5	64	68.6	88.8	66.1		66.3	67
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400							34 U				34 U				
Acenaphthene	50,000							18 U				18 U				
Acenaphthylene	41,000							14 U				13 U				
Anthracene	50,000							15 U				15 U				
Benzo(a)anthracene	224							30 J				18 U				
Benzo(a)pyrene	61							33 J				19 U				
Benzo(b)fluoranthene	1,100							47 U				46 U				
Benzo(ghi)perylene	50,000							22 J				21 U				
Benzo(k)fluoranthene	1,100							48 U				47 UM				
Chrysene	400							40 J				21 U				
Dibenzo(a,h)anthracene	14							22 U				22 U				
Fluoranthene	50,000							65 J				27 U				
Fluorene	50,000							25 U				24 U				
Indeno(1,2,3-cd)pyrene	3,200							22 U				22 U				
Naphthalene	13,000							39 U				39 U				
Phenanthrene	50,000							39 J				29 U				
Pyrene	50,000							61 J				23 U				

Analytical Results for Area 4 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A4-SS-12-FS	FX-A4-SS-12-FS2	FX-A4-SS-13-FS	FX-A4-SS-14-FS	FX-A4-SS-14-FS2	FX-A4-SS-15-FS	FX-A4-SS-16-FS	FX-A4-SS-16-FS2	FX-A4-SS-17-FS	FX-A4-SS-18-FS	FX-A4-SS-18-FS3	FX-A4-SS-19-FS	FX-A4-SS-20-FS	FX-A4-SS-21-FS	FX-A4-SS-22-FS
Depth (inches)		6	9	6	6	9	6	6	9	6	6	18	6	6	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200	16500						14900						17000		
Antimony	5.9	0.83 UN						1.1 BN						0.98 UN		
****Arsenic**	8.24		9.7	8		8.4	6		7.9	8.2		10.9 *	7.7	7.4 N	5.4	
Barium	300	74.2						115						120		
Beryllium	1.1	0.71 B						0.67 B						0.87 B		
**Cadmium	2.3	0.69 UN						0.79 UN						0.96 BN		
Calcium	120,500	5090 *						4410 *						5410 *		
Chromium	29	22.4						21.6						24		
**Cobalt	30	12.7						11.4						13.7		
**Copper	29.6	19.4						18.6						22.9		
Iron	35,550	26800						27500						30500		
****Lead**	400	13.1						21.5						14		
Magnesium	21,500	4780						4670						4710		
Manganese	1,056	456						626						1030		
****Mercury**	0.1	0.042 B		0.045 B	0.046 B		0.084	0.052 B		0.054 B	0.052 B		0.044 B	0.068 B	0.062 B	0.066 B
Nickel	48.9	30.5						28.7						35.8		
Potassium	2,343	1640 E						1590 E						2270 E		
*Selenium	2	1.1 UN						1.3 UN						1.3 UN		
Silver	0.763	0.21 U						0.24 U						0.24 U		
Sodium	170.3	49.5 B						64 B						56.2 B		
Thallium	0.67	2.1 U						2.4 U						2.4 U		
**Vanadium	150	23.2						22						25.7		
Zinc	108.9	78.5		87.3	82.8		75.6	80.2		76.7	72.6		61.9	97.8	71.4	79.8
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400	32 U						35 U						34 U		
Acenaphthene	50,000	17 U						19 U						18 U		
Acenaphthylene	41,000	13 U						14 U						13 U		
Anthracene	50,000	14 U						15 U						15 U		
Benzo(a)anthracene	224	17 U						19 U						18 U		
Benzo(a)pyrene	61	18 U						20 U						20 U		
Benzo(b)fluoranthene	1,100	44 U						48 U						47 U		
Benzo(ghi)perylene	50,000	20 U						21 U						21 U		
Benzo(k)fluoranthene	1,100	45 U						49 U						48 U		
Chrysene	400	20 U						21 U						21 U		
Dibenzo(a,h)anthracene	14	21 U						23 U						22 U		
Fluoranthene	50,000	25 U						28 U						27 U		
Fluorene	50,000	23 U						25 U						24 U		
Indeno(1,2,3-cd)pyrene	3,200	21 U						23 U						22 U		
Naphthalene	13,000	37 U						40 U						39 U		
Phenanthrene	50,000	28 U						30 U						29 U		
Pyrene	50,000	22 U						24 U						23 U		

Analytical Results for Area 4 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A4-SS-22-FS3	FX-A4-SS-23-FS	FX-A4-SS-23-FS6(5-6)	FX-A4-SS-24-FS	FX-A4-SS-24-FS2	FX-A4-SS-25-FS	FX-A4-SS-25-FS2	FX-A4-SS-26-FS	FX-A4-SS-26-FS2	FX-A4-SS-27-FS	FX-A4-SS-27-FS2	FX-A4-SS-28-FS	FX-A4-SS-29-FS	FX-A4-SS-30-FS	FX-A4-SS-31-FS
Depth (inches)		18	6	72	6	12	6	12	6	9	6	9	6	6	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200				12300								15300			
Antimony	5.9				0.83 UN								0.98 UN			
****Arsenic**	8.24	13.9 *		7.3		10.7		5		6.2	12	5.3	7.6	5.2	6.7	6.6
Barium	300				77								67.8			
Beryllium	1.1				0.61 B								0.69 B			
**Cadmium	2.3				0.8 BN								0.81 U			
Calcium	120,500				9600 *								14900 *			
Chromium	29				17.4								23.9			
**Cobalt	30				10.3								13.3			
**Copper	29.6				18.2								22			
Iron	35,550				21500								28900			
****Lead**	400				19.7								28.9 *			
Magnesium	21,500				5690								8810			
Manganese	1,056				537								563			
****Mercury**	0.1		0.06 B		0.058 B		0.056 B		0.048 B		0.045 B		0.048 B	0.048 B	0.05 B	0.04 B
Nickel	48.9				24.3								35.4			
Potassium	2,343				1100 E								1880 E			
*Selenium	2				1.1 UN								1.3 UN			
Silver	0.763				0.21 U								0.24 U			
Sodium	170.3				45.7 B								76.8 *			
Thallium	0.67				2.1 U								2.4 U			
**Vanadium	150				18.7								20.8			
Zinc	108.9		95		75.2		74.1		82.1		85.6		83.7	93.1	83.8	68.7
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400				31 U								33 U			
Acenaphthene	50,000				17 U								17 U			
Acenaphthylene	41,000				12 U								13 U			
Anthracene	50,000				13 U								28 J			
Benzo(a)anthracene	224				17 U								82 J			
Benzo(a)pyrene	61				18 U								75 J			
Benzo(b)fluoranthene	1,100				42 UM								82 J			
Benzo(ghi)perylene	50,000				19 UM								41 J			
Benzo(k)fluoranthene	1,100				44 UM								82 J			
Chrysene	400				19 U								99 J			
Dibenzo(a,h)anthracene	14				20 U								21 U			
Fluoranthene	50,000				26 J								170 J			
Fluorene	50,000				22 U								23 U			
Indeno(1,2,3-cd)pyrene	3,200				20 U								41 J			
Naphthalene	13,000				36 U								37 U			
Phenanthrene	50,000				27 U								110 J			
Pyrene	50,000				23 J								170 J			

Analytical Results for Area 4 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A4-SS-32-FS	FX-A4-SS-33-FS	FX-A4-SS-34-FS	FX-A4-SS-34-FS3	FX-A4-SS-35-FS	FX-A4-SS-36-FS	FX-A4-SS-37-FS	FX-A4-SS-38-FS	FX-A4-SS-38-FS2	FX-A4-SS-39-FS	FX-A4-SS-39-FS2	FX-A4-SS-40-FS	FX-A4-SS-41-FS	FX-A4-SS-42-FS	FX-A4-SS-43-FS	FX-A4-SS-43-FS3
Depth (inches)		6	6	6	18	6	6	6	6	12	6	12	6	6	6	6	18
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200	16700						14700							11700		
Antimony	5.9	0.91 UN						1.4 UN							1.3 UN		
****Arsenic**	8.24	8.1	8		5.5 *	6.7 *N	6.6 *N	6.1 B*		10.4		10	7.5 *N	7.5 N	5.7 B*		7.4 *
Barium	300	72.6						79.8 *							80.3 *		
Beryllium	1.1	0.75 B						0.72 B							0.58 B		
**Cadmium	2.3	0.76 B						1.1 U							1.1 U		
Calcium	120,500	6430 *						15700 *							33900 *		
Chromium	29	25.2						21.5							17.6		
**Cobalt	30	12.5						12.1							10.1		
**Copper	29.6	21.7						21.8							22.4		
Iron	35,550	29300						26800 *							21700 *		
****Lead**	400	22.6 *						14.6 *							17.1 *		
Magnesium	21,500	5380						6790							10200		
Manganese	1,056	533						600							705		
****Mercury**	0.1	0.049 B	0.035 U	0.047 B		0.042 U	0.048 B	0.054 B	0.066 B		0.051 B		0.051 B	0.033 UN	0.037 B	0.057 B	
Nickel	48.9	34.2						31.1 *							29.1 *		
Potassium	2,343	1890 E						1380							1260		
*Selenium	2	1.2 UN						1.8 U							1.7 U		
Silver	0.763	0.23 U						0.34 U							0.32 U		
Sodium	170.3	61 B*						106 B							114		
Thallium	0.67	2.3 U						3.4 U							3.2 U		
**Vanadium	150	23.1						21 *							18.1 *		
Zinc	108.9	84.5	53.8	79.9 *N		70.2 *N	74.2 *N	77.9	84.6 *N		79.7 *N		35.6 *N	110 E	81.5	84 *N	
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400	33 U						32 U							31 U		
Acenaphthene	50,000	17 U						17 U							17 U		
Acenaphthylene	41,000	13 U						12 U							12 UM		
Anthracene	50,000	14 U						26 J							13 UM		
Benzo(a)anthracene	224	23 J						140 J							54 J		
Benzo(a)pyrene	61	26 J						100 J							55 J		
Benzo(b)fluoranthene	1,100	44 U						100 JM							60 JM		
Benzo(ghi)perylene	50,000	20 U						50 J							40 J		
Benzo(k)fluoranthene	1,100	45 U						120 JM							60 JM		
Chrysene	400	36 J						150 J							71 J		
Dibenzo(a,h)anthracene	14	21 U						25 J							20 U		
Fluoranthene	50,000	56 J						270 J							100 J		
Fluorene	50,000	23 U						23 UM							22 U		
Indeno(1,2,3-cd)pyrene	3,200	21 U						47 J							33 J		
Naphthalene	13,000	37 U						36 U							36 U		
Phenanthrene	50,000	36 J						98 J							28 J		
Pyrene	50,000	47 J						310 J							120 J		

Analytical Results for Area 4 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A4-SS-44-FS	FX-A4-SS-45-FS	FX-A4-SS-46-FS	FX-A4-SS-47-FS	FX-A4-SS-47-FS-2	FX-A4-SS-48-FS	FX-A4-SS-49-FS	FX-A4-SS-50-FS	FX-A4-SS-51-FS	FX-A4-SS-52-FS	FX-A4-SS-53-FS	FX-A4-SS-54-FS	FX-A4-SS-55-FS	FX-A4-SS-56-FS	FX-A4-SS-57-FS
Depth (inches)		6	6	6	6	12	6	6	6	6	6	6	6	6	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200				17100					14000					13700	
Antimony	5.9				1.3 UN					1.4 UN					1.3 UN	
****Arsenic**	8.24	6.5 *	4.9 B*	6.9 *	8.6 B*		7.7 *	6.6 *	5.8 *	6.7 B*	5.4 *	6 *	5.7 *	6.3 *	7.9 B*	8.1 *
Barium	300				104 *					69.3 *					83.3 *	
Beryllium	1.1				1 B					0.67 B					0.7 B	
**Cadmium	2.3				1.1 B					1.2 U					1.1 U	
Calcium	120,500				39000 *					31900 *					29300 *	
Chromium	29				25.6					20.7					24.1	
**Cobalt	30				25.4					11.5					13.8	
**Copper	29.6				30.7					24.2					24.9	
Iron	35,550				34700 *					28000 *					29600 *	
****Lead**	400				18.5 *					12.9 *					30.6 *	
Magnesium	21,500				8660					9230					8970	
Manganese	1,056				1930					447					723	
****Mercury**	0.1	0.047 B	0.049 B	0.038 B	0.043 B		0.047 B	0.054 B	0.052 B	0.046 B	0.054 B	0.049 B	0.049 B	0.044 B	0.036 U	0.047 B
Nickel	48.9				45.3 *					31.1 *					35.8 *	
Potassium	2,343				1720					1300					1840	
*Selenium	2				1.7 U					1.9 U					1.7 U	
Silver	0.763				0.33 U					0.35 U					0.32 U	
Sodium	170.3				235					132					138	
Thallium	0.67				3.3 U					3.5 U					3.2 U	
**Vanadium	150				23.3 *					22.1 *					20.6 *	
Zinc	108.9	79.6	68.1	77.7	115		71.6	93.1	76.6	83.9	69.1	74	63.9	72.7	94.9	89.7
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400					32 U				33 U					32 U	
Acenaphthene	50,000					17 U				18 U					17 U	
Acenaphthylene	41,000					12 U				13 U					13 U	
Anthracene	50,000					14 U				14 U					14 U	
Benzo(a)anthracene	224					17 U				18 UM					81 J	
Benzo(a)pyrene	61					18 UM				19 U					84 J	
Benzo(b)fluoranthene	1,100					43 U				45 UM					85 JM	
Benzo(ghi)perylene	50,000					19 U				20 U					66 J	
Benzo(k)fluoranthene	1,100					44 U				46 UM					100 JM	
Chrysene	400					19 U				20 UM					100 J	
Dibenzo(a,h)anthracene	14					20 U				21 U					21 UH	
Fluoranthene	50,000					25 U				26 U					150 J	
Fluorene	50,000					23 U				24 U					23 UM	
Indeno(1,2,3-cd)pyrene	3,200					20 U				21 U					58 J	
Naphthalene	13,000					36 U				38 U					37 U	
Phenanthrene	50,000					27 U				29 UM					62 J	
Pyrene	50,000					22 U				23 U					160 J	

Analytical Results for Area 4 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A4-SS-58-FS	FX-A4-SS-58-FS2	FX-A4-SS-59-FS	FX-A4-SS-60-FS
Depth (inches)		6	12	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200	12600			
Antimony	5.9	1.1 U*			
****Arsenic**	8.24		6.1	6.7 N	6.8 N
Barium	300	68.8			
Beryllium	1.1	0.61 B			
**Cadmium	2.3	0.89 U			
Calcium	120,500	42200			
Chromium	29	21.1 N			
**Cobalt	30	12.1			
**Copper	29.6	24.3 *			
Iron	35,550	25900			
****Lead**	400	12			
Magnesium	21,500	21200			
Manganese	1,056	639			
****Mercury**	0.1	0.031 UN		0.033 UN	0.037 UN
Nickel	48.9	30.3			
Potassium	2,343	1740			
*Selenium	2	1.4 U			
Silver	0.763	0.27 U			
Sodium	170.3	142			
Thallium	0.67	2.7 UN			
**Vanadium	150	19.2			
Zinc	108.9	78.8		62.4 E	67.8 E
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400	30 U			
Acenaphthene	50,000	16 U			
Acenaphthylene	41,000	12 UM			
Anthracene	50,000	13 UM			
Benzo(a)anthracene	224	58 J			
Benzo(a)pyrene	61	53 J			
Benzo(b)fluoranthene	1,100	56 JM			
Benzo(ghi)perylene	50,000	33 J			
Benzo(k)fluoranthene	1,100	65 JM			
Chrysene	400	70 J			
Dibenzo(a,h)anthracene	14	19 U			
Fluoranthene	50,000	88 J			
Fluorene	50,000	21 U			
Indeno(1,2,3-cd)pyrene	3,200	29 J			
Naphthalene	13,000	34 UM			
Phenanthrene	50,000	35 J			
Pyrene	50,000	130 J			

Analytical Results for Area 4 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A4-SS-01-FS	PX-A4-SS-02-FS	PX-A4-SS-03-FS	PX-A4-SS-04-FS	PX-A4-SS-05-FS	PX-A4-SS-06-FS	PX-A4-SS-07-FS	PX-A4-SS-08-FS	PX-A4-SS-09-FS	PX-A4-SS-10-FS	PX-A4-SS-11-FS	PX-A4-SS-11-FS2	PX-A4-SS-12-FS	PX-A4-SS-13-FS	PX-A4-SS-14-FS	PX-A4-SS-15-FS
*Depth (in) / Distance (ft)		6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 3	6 / 0	6 / 0	6 / 0	6 / 0
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200				12900				15300					14200			
Antimony	5.9				0.79 UN				0.9 UN					1.2 UN			
**Arsenic	8.24	7.1	2.1 B	5.4	5 BN	5.2	8.2	5	7.5 N	7.3 N	6.6		9.1	6.1 BN	6.3	6.4	
Barium	300				35.4				55.7					91.4			
Beryllium	1.1				0.58 B				0.69 B					0.69 B			
**Cadmium	2.3				0.89 BN				1 BN					1 UN			
Calcium	120,500				15700 *				4440 *					4880 *			
Chromium	29				26.3				27.2					20.3			
**Cobalt	30				11.8				13.8					10.6			
**Copper	29.6				24.8				25.8					23			
Iron	35,550				26900				29600					24300			
**Lead	400				55.8				53.8					13.9			
Magnesium	21,500				6980				6060					4750			
Manganese	1,056				364				576					429			
**Mercury	0.1	0.046 B	0.033 U	0.036 U	0.038 U	0.039 U	0.047 U	0.051 B	0.041 U	0.036 UN	0.064 B	0.054 B		0.051 B	0.051 B	0.049 B	0.057 B
Nickel	48.9				43				37.6					30.3			
Potassium	2,343				1950 E				2070 E					2100 E			
*Selenium	2				1.1 UN				1.2 UN					1.7 UN			
Silver	0.763				0.2 U				0.22 U					0.31 U			
Sodium	170.3				97.5				64.5 B					48.8 B			
Thallium	0.67				2 U				2.2 U					3.1 U			
**Vanadium	150				17.4				20.1					22.2			
Zinc	108.9	101	28.3	90.2	71.2	77.2	98.1	52.2	90.7	70.7 E	63.4	70.8		73.4	66.3	66	101
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400				33 U				35 U					38 U			
Acenaphthene	50,000				18 U				19 U					21 U			
Acenaphthylene	41,000				13 U				14 U					15 U			
Anthracene	50,000				14 U				15 U					16 U			
Benzo(a)anthracene	224				41 J				54 J					21 U			
Benzo(a)pyrene	61				42 J				60 J					22 U			
Benzo(b)fluoranthene	1,100				45 J				73 J					52 UM			
Benzo(ghi)perylene	50,000				29 J				43 J					23 U			
Benzo(k)fluoranthene	1,100				48 J				60 J					54 UM			
Chrysene	400				63 J				77 J					23 U			
Dibenzo(a,h)anthracene	14				21 U				23 U					25 U			
Fluoranthene	50,000				99 J				120 J					36 J			
Fluorene	50,000				24 U				25 U					27 U			
Indeno(1,2,3-cd)pyrene	3,200				28 J				41 J					25 U			
Naphthalene	13,000				38 U				40 U					44 U			
Phenanthrene	50,000				62 J				71 J					33 U			
Pyrene	50,000				87 J				120 J					37 J			

Analytical Results for Area 4 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A4-SS-15-FS2	PX-A4-SS-16-FS	PX-A4-SS-16-FS3	PX-A4-SS-17-FS	PX-A4-SS-17-FS3	PX-A4-SS-18-FS	PX-A4-SS-18-FS3	PX-A4-SS-19-FS	PX-A4-SS-20-FS	PX-A4-SS-20-FS2	PX-A4-SS-21-FS	PX-A4-SS-22-FS	PX-A4-SS-22-FS2	PX-A4-SS-23-FS	PX-A4-SS-24-FS	PX-A4-SS-25-FS	PX-A4-SS-26-FS
Depth (in) / Distance (ft)		6 / 3	6 / 0	6 / 6	6 / 0	6 / 6	6 / 0	6 / 6	6 / 0	6 / 0	6 / 3	6 / 0	6 / 0	6 / 3	6 / 0	6 / 0	6 / 0	6/
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/K
Aluminum	19,200		12100							13600						13900		
Antimony	5.9		1.2 UN							1.2 UN						0.87 UN		
**Arsenic	8.24	12.9		7 *		18.8 *		10.8 *	7.1		4.1	5.9		7.9	5.6	5.6 B	4.8 B	5.5
Barium	300		71.3							87.5						65.6		
Beryllium	1.1		0.6 B							0.65 B						0.66 B		
**Cadmium	2.3		0.98 UN							1 UN						0.96 B		
Calcium	120,500		5050 *							4130 *						17200 *		
Chromium	29		17.5							20						24.2		
**Cobalt	30		9.7							10.7						13.9		
**Copper	29.6		17.7							21.6						27.7		
Iron	35,550		22300							23200						26300		
**Lead	400		13.4							37.7						35.3 *		
Magnesium	21,500		3880							3930						5880		
Manganese	1,056		433							678						453		
**Mercury	0.1		0.054 B		0.06 B		0.052 B		0.066 B	0.075 B		0.049 B	0.056 B		0.038 U	0.041 B	0.042 U	0.049
Nickel	48.9		25							28						37.6		
Potassium	2,343		1610 E							2310 E						2250 E		
*Selenium	2		1.6 UN							1.6 UN						1.2 UN		
Silver	0.763		0.29 U							0.3 U						0.22 U		
Sodium	170.3		36 B							47.9 B						82.6 *		
Thallium	0.67		2.9 U							3 U						2.2 U		
**Vanadium	150		19.1							21.2						18.4		
Zinc	108.9		72		155		76.2		88.2	95.3		125	152		89	88.2	88.2	91.5
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/K
2-Methylnaphthalene	36,400		36 U							44 U						35 U		
Acenaphthene	50,000		19 U							24 U						19 U		
Acenaphthylene	41,000		14 U							17 U						14 U		
Anthracene	50,000		16 UM							19 U						15 U		
Benzo(a)anthracene	224		19 U							49 J						60 J		
Benzo(a)pyrene	61		21 U							59 J						61 J		
Benzo(b)fluoranthene	1,100		49 UM							60 U						70 J		
Benzo(ghi)perylene	50,000		22 U							45 JM						49 J		
Benzo(k)fluoranthene	1,100		51 UM							74 JM						67 J		
Chrysene	400		22 U							61 J						83 J		
Dibenzo(a,h)anthracene	14		23 U							28 U						22 U		
Fluoranthene	50,000		31 J							99 J						140 J		
Fluorene	50,000		26 U							32 U						25 U		
Indeno(1,2,3-cd)pyrene	3,200		23 U							41 J						43 J		
Naphthalene	13,000		42 U							51 U						40 U		
Phenanthrene	50,000		31 U							57 J						79 J		
Pyrene	50,000		30 J							88 J						120 J		

Analytical Results for Area 4 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal		PX-A4-SS-27-FS	PX-A4-SS-28-FS	PX-A4-SS-29-FS	PX-A4-SS-30-FS	PX-A4-SS-30-FS4	PX-A4-SS-31-FS	PX-A4-SS-32-FS	PX-A4-SS-32-FS3	PX-A4-SS-33-FS	PX-A4-SS-33-FS2	PX-A4-SS-34-FS
*Depth (in) / Distance (ft)		0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 9	6 / 0	6 / 0	6 / 6	6 / 0	6 / 3	6 / 0
Metals		g)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200					11000							
Antimony	5.9					1.4 UN							
**Arsenic	8.24	*	5.9 B*	7.4 *	6.4 *	7.6 B*		4.6 B*		20.9 *		7.1	6.9 *N
Barium	300					51.2 *							
Beryllium	1.1					0.59 U							
**Cadmium	2.3					1.2 U							
Calcium	120,500					19700 *							
Chromium	29					19.6							
**Cobalt	30					12.8							
**Copper	29.6					18.9							
Iron	35,550					25600 *							
**Lead	400					20.5 *							
Magnesium	21,500					5320							
Manganese	1,056					562							
**Mercury	0.1	B	0.057 B	0.058 B	0.055 B	0.04 U		0.039 B	0.059 B		0.047 U		0.058 B
Nickel	48.9					32.1 *							
Potassium	2,343					1880							
*Selenium	2					1.9 U							
Silver	0.763					0.36 U							
Sodium	170.3					119							
Thallium	0.67					3.6 U							
**Vanadium	150					15.5 *							
Zinc	108.9		73	83.5	99	87.4		80.1	102 *N		85.4 *N		74.9 *N
PAHs		g)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400						32 U						
Acenaphthene	50,000						17 U						
Acenaphthylene	41,000						12 UM						
Anthracene	50,000						34 J						
Benzo(a)anthracene	224						290 J						
Benzo(a)pyrene	61						320 J						
Benzo(b)fluoranthene	1,100						370 J						
Benzo(ghi)perylene	50,000						180 J						
Benzo(k)fluoranthene	1,100						320 J						
Chrysene	400						340 J						
Dibenzo(a,h)anthracene	14						20 U						
Fluoranthene	50,000						540						
Fluorene	50,000						23 UM						
Indeno(1,2,3-cd)pyrene	3,200						150 J						
Naphthalene	13,000						36 UM						
Phenanthrene	50,000						140 J						
Pyrene	50,000						610						

Analytical Results for Area 5 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A5-SS-01-FS	FX-A5-SS-02-FS	FX-A5-SS-03-FS	FX-A5-SS-04-FS	FX-A5-SS-05-FS	FX-A5-SS-06-FS	FX-A5-SS-07-FS	FX-A5-SS-08-FS	FX-A5-SS-09-FS	FX-A5-SS-10-FS	FX-A5-SS-11-FS	FX-A5-SS-12-FS	FX-A5-SS-13-FS	FX-A5-SS-14-FS	FX-A5-SS-15-FS	FX-A5-SS-16-FS
Depth (inches)		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200				16200				18400					14500			
Antimony	5.9				1.1 UN				1.5 UN					2.9 BN			
****Arsenic**	8.24	4.4 B	6.3	6.6	5.9 B	6.5	4.8	5.5	6.7 B	4.7 B	4.8	6.1 N	7.5 N	6.6 B	6.6 N	7.1 N	6.5 N
Barium	300				140				171					118			
Beryllium	1.1				0.85 B				0.97 B					0.93 B			
**Cadmium	2.3				0.97 B				1.3 UN					1.3 UN			
Calcium	120,500				5110 *				7970					3540			
Chromium	29				23.5				25 *					21.6			
**Cobalt	30				10.8				11.7 *					11.1			
**Copper	29.6				20.6				25					18.2			
Iron	35,550				25000				29000					24600			
****Lead**	400				46.1 *				23.3 *					33			
Magnesium	21,500				4120				5370					3560			
Manganese	1,056				775				1140					913 *			
****Mercury**	0.1	0.068 B	0.086	0.091	0.083	0.1	0.065 B	0.09	0.074 B	0.06 B	0.079	0.076 B	0.069 B	0.055 B	0.058 B	0.064 B	0.051 B
Nickel	48.9				28				29.5					24.1			
Potassium	2,343				2110 E				2290					1310			
*Selenium	2				1.5 UN				2 UN					2 UN			
Silver	0.763				0.28 U				0.38 U^					0.38 U			
Sodium	170.3				54.7 B*				65.5 B					67.6 B			
Thallium	0.67				2.8 U				3.8 U					3.8 U			
**Vanadium	150				24.8				29					26.1			
Zinc	108.9	76.2	83.1	85.3	92.9	106	96.1	71.7	101 N	61.7	58.3	86	83.9	98.7	78.7	83.9	84
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400				37 U				35 U					35 U			
Acenaphthene	50,000				20 U				19 U					19 U			
Acenaphthylene	41,000				15 U				14 U					14 U			
Anthracene	50,000				16 U				15 U					15 U			
Benzo(a)anthracene	224				20 U				19 UM					19 U			
Benzo(a)pyrene	61				21 U				20 UM					20 U			
Benzo(b)fluoranthene	1,100				51 U				47 U					47 U			
Benzo(ghi)perylene	50,000				23 U				21 UM					21 U			
Benzo(k)fluoranthene	1,100				52 UM				49 UM					49 U			
Chrysene	400				23 U				21 U					21 U			
Dibenzo(a,h)anthracene	14				24 U				22 U					22 U			
Fluoranthene	50,000				29 U				27 U					29 J			
Fluorene	50,000				27 U				25 U					25 U			
Indeno(1,2,3-cd)pyrene	3,200				24 U				22 U					22 U			
Naphthalene	13,000				43 U				40 U					40 U			
Phenanthrene	50,000				32 U				30 UM					30 U			
Pyrene	50,000				25 U				24 U					38 J			

Analytical Results for Area 5 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A5-SS-17-FS	FX-A5-SS-18-FS	FX-A5-SS-19-FS	FX-A5-SS-20-FS	FX-A5-SS-21-FS	FX-A5-SS-22-FS	FX-A5-SS-23-FS	FX-A5-SS-24-FS	FX-A5-SS-25-FS	FX-A5-SS-26-FS
Depth (inches)		6	6	6	6	6	6	6	6	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200		13600					13600			
Antimony	5.9		1.2 UN					1.3 UN			
****Arsenic**	8.24	7 N	5.3 B	5.4 N	5.3 N	5.4 N	8.7 N	4.9 B	5.5 N	7.3 N	6.4 N
Barium	300		86.2					70.1			
Beryllium	1.1		0.71 B					0.67 B			
**Cadmium	2.3		1 UN					1.1 UN			
Calcium	120,500		7160					2610			
Chromium	29		18.8					19			
**Cobalt	30		10.4					10.6			
**Copper	29.6		15.5					14.3			
Iron	35,550		22600					23100			
****Lead**	400		20.6					17.5			
Magnesium	21,500		5710					3590			
Manganese	1,056		629 *					492 *			
****Mercury**	0.1	0.039 U	0.047 B	0.045 B	0.054 B	0.048 B	0.048 B	0.047 B	0.045 B	0.055 B	0.042 B
Nickel	48.9		20.5					21.5			
Potassium	2,343		1150					1100			
*Selenium	2		1.7 UN					1.7 UN			
Silver	0.763		0.31 U					0.33 U			
Sodium	170.3		62.8 B					57.4 B			
Thallium	0.67		3.1 U					3.3 U			
**Vanadium	150		23.1					22.8			
Zinc	108.9	77.9	86.7	74	57.9	67.2	105	65	71.1	96.1	79.9
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400		33 U					34 U			
Acenaphthene	50,000		18 U					18 U			
Acenaphthylene	41,000		13 U					13 U			
Anthracene	50,000		14 U					14 U			
Benzo(a)anthracene	224		18 U					18 U			
Benzo(a)pyrene	61		19 U					19 U			
Benzo(b)fluoranthene	1,100		45 U					46 U			
Benzo(ghi)perylene	50,000		20 U					20 U			
Benzo(k)fluoranthene	1,100		46 UM					47 U			
Chrysene	400		20 U					20 U			
Dibenzo(a,h)anthracene	14		21 U					22 U			
Fluoranthene	50,000		26 U					26 U			
Fluorene	50,000		24 U					24 U			
Indeno(1,2,3-cd)pyrene	3,200		21 U					22 U			
Naphthalene	13,000		38 U					38 U			
Phenanthrene	50,000		29 U					29 U			
Pyrene	50,000		23 U					23 U			

Analytical Results for Area 5 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A5-SS-01-FS	PX-A5-SS-01-FS2	PX-A5-SS-02-FS	PX-A5-SS-02-FS2	PX-A5-SS-03-FS	PX-A5-SS-03-FS2	PX-A5-SS-04-FS	PX-A5-SS-04-FS2	PX-A5-SS-05-FS	PX-A5-SS-05-FS2	PX-A5-SS-06-FS	PX-A5-SS-06-FS2	PX-A5-SS-07-FS	PX-A5-SS-08-FS	PX-A5-SS-09-FS
*Depth (in) / Distance (ft)		6 / 0	6 / 0	6 / 0	6 / 3	6 / 0	6 / 3	6 / 0	6 / 3	6 / 0	6 / 3	6 / 0	6 / 3	6 / 0	6 / 0	6 / 0
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200							16400							15900	
Antimony	5.9							1.8 BN							1.3 UN	
**Arsenic	8.24	6.1		5.4		6		8.4 B		6.3		5.5 B		3.1 B	5.2 B	5.3 B
Barium	300							128							68.6	
Beryllium	1.1							0.8 B							0.73 B	
**Cadmium	2.3							1.3 UN							1.1 UN	
Calcium	120,500							6200							36000	
Chromium	29							28 *							28.4 *	
**Cobalt	30							10.2 *							14.7 *	
**Copper	29.6							24.9							33.2	
Iron	35,550							25900							31600	
**Lead	400							98 *							47.1 *	
Magnesium	21,500							4470							11300	
Manganese	1,056							549							580	
**Mercury	0.1		0.036		0.02		0.06		0.038		0.02		0.027	0.035 U	0.036 U	0.082 B
Nickel	48.9							28.6							47.7	
Potassium	2,343							2730							2400	
*Selenium	2							2.1 UN							1.8 UN	
Silver	0.763							0.39 U^							0.33 U^	
Sodium	170.3							68.3 B							131	
Thallium	0.67							3.9 U							3.3 U	
**Vanadium	150							25.3							20.5	
Zinc	108.9	100		89.1		106		369 N		102		123		47.2	887 N	84.5
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400							39 U							31 U	
Acenaphthene	50,000							21 U							17 U	
Acenaphthylene	41,000							15 UM							12 U	
Anthracene	50,000							17 UM							13 UM	
Benzo(a)anthracene	224							26 J							17 U	
Benzo(a)pyrene	61							30 J							18 U	
Benzo(b)fluoranthene	1,100							52 U							43 UM	
Benzo(ghi)perylene	50,000							23 U							19 UM	
Benzo(k)fluoranthene	1,100							54 U							44 UM	
Chrysene	400							35 J							21 J	
Dibenzo(a,h)anthracene	14							25 U							20 U	
Fluoranthene	50,000							50 J							30 J	
Fluorene	50,000							28 U							22 U	
Indeno(1,2,3-cd)pyrene	3,200							25 U							20 U	
Naphthalene	13,000							44 U							36 UM	
Phenanthrene	50,000							33 U							28 J	
Pyrene	50,000							55 J							31 J	

Analytical Results for Area 5 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A5-SS-10-FS	PX-A5-SS-11-FS	PX-A5-SS-12-FS	PX-A5-SS-12-FS2	PX-A5-SS-13-FS	PX-A5-SS-14-FS	PX-A5-SS-15-FS	PX-A5-SS-16-FS	PX-A5-SS-17-FS	PX-A5-SS-18-FS	PX-A5-SS-19-FS	PX-A5-SS-20-FS
*Depth (in) / Distance (ft)		6 / 0	6 / 0	6 / 0	6 / 3	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0	6 / 0
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200			12100					12500				
Antimony	5.9			3.4 BN					162 N				
**Arsenic	8.24	4.5 B	7.6		5.5	4.4 BN	7.9 N	4.7 BN	5.3 B	3.2 BN	5.8 N	3.7 BN	4.3 BN
Barium	300			45.4					67.8				
Beryllium	1.1			0.58 B					0.59 B				
**Cadmium	2.3			0.9 UN					1.1 UN				
Calcium	120,500			3940					2510				
Chromium	29			22					17.5				
**Cobalt	30			12.9					7.6				
**Copper	29.6			17.5					14.1				
Iron	35,550			26400					19500				
**Lead	400			39.2					24.5				
Magnesium	21,500			5980					3040				
Manganese	1,056			563 *					298 *				
**Mercury	0.1	0.052 B	0.042 U	0.032 U		0.036 U	0.036 U	0.035 U	0.045 B	0.037 U	0.045 U	0.037 U	0.033 U
Nickel	48.9			32.3					18.2				
Potassium	2,343			975					1250				
*Selenium	2			1.4 UN					1.7 UN				
Silver	0.763			0.27 U					0.32 U				
Sodium	170.3			49.6 B					51 B				
Thallium	0.67			2.7 U					3.2 U				
**Vanadium	150			15.2					21.4				
Zinc	108.9	401	67.1	70.4		99.3	59.1	72.2	75	55.2	85.1	59.9	576
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400			30 U					35 U				
Acenaphthene	50,000			16 U					19 U				
Acenaphthylene	41,000			12 U					14 U				
Anthracene	50,000			13 U					15 U				
Benzo(a)anthracene	224			54 J					19 U				
Benzo(a)pyrene	61			48 J					20 U				
Benzo(b)fluoranthene	1,100			43 J					47 UM				
Benzo(ghi)perylene	50,000			18 U					21 U				
Benzo(k)fluoranthene	1,100			51 J					48 UM				
Chrysene	400			72 J					21 U				
Dibenzo(a,h)anthracene	14			19 U					22 U				
Fluoranthene	50,000			100 J					27 U				
Fluorene	50,000			21 U					25 U				
Indeno(1,2,3-cd)pyrene	3,200			19 U					22 U				
Naphthalene	13,000			34 U					40 U				
Phenanthrene	50,000			46 J					30 U				
Pyrene	50,000			130 J					34 J				

Analytical Results for Area 6 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A6-SS-01-FS	FX-A6-SS-01-FS3	FX-A6-SS-02-FS	FX-A6-SS-02-FS3	FX-A6-SS-03-FS	FX-A6-SS-03-FS2	FX-A6-SS-04-FS	FX-A6-SS-04-FS2	FX-A6-SS-05-FS	FX-A6-SS-05-FS3	FX-A6-SS-06-FS3(0-2)
Depth (inches)		6	30	6	30	6	18	6	18	6	30	24
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200							16000				
Antimony	5.9							1 UN				
****Arsenic**	8.24		9.5		6.3		6.1		7.4		8.5	3.5 B
Barium	300							107				
Beryllium	1.1							0.77 B				
**Cadmium	2.3							0.83 U				
Calcium	120,500							3380 *				
Chromium	29							20.6				
**Cobalt	30							11.6				
**Copper	29.6							18.1				
Iron	35,550							24400				
****Lead**	400							27.9 *				
Magnesium	21,500							3820				
Manganese	1,056							697				
****Mercury**	0.1	0.084		0.074 B		0.057 B		0.081		0.059 B		
Nickel	48.9							24.1				
Potassium	2,343							1840 E				
*Selenium	2							1.3 UN				
Silver	0.763							0.25 U				
Sodium	170.3							49 B*				
Thallium	0.67							2.5 U				
**Vanadium	150							24.5				
Zinc	108.9	81.5		76.5		54.8		73.6		65.4		
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400							36 U				
Acenaphthene	50,000							19 U				
Acenaphthylene	41,000							14 U				
Anthracene	50,000							15 U				
Benzo(a)anthracene	224							45 J				
Benzo(a)pyrene	61							43 J				
Benzo(b)fluoranthene	1,100							49 U				
Benzo(ghi)perylene	50,000							26 J				
Benzo(k)fluoranthene	1,100							50 U				
Chrysene	400							51 J				
Dibenzo(a,h)anthracene	14							23 U				
Fluoranthene	50,000							86 J				
Fluorene	50,000							26 U				
Indeno(1,2,3-cd)pyrene	3,200							26 J				
Naphthalene	13,000							41 UM				
Phenanthrene	50,000							52 J				
Pyrene	50,000							85 J				

Analytical Results for Area 6 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A6-SS-01-FS	PX-A6-SS-01-FS3	PX-A6-SS-02-FS	[3]PX-A6-SS-02-FS3	PX-A6-SS-03-FS	PX-A6-SS-03-FS3	[3]PX-A6-SS-04-FS	PX-A6-SS-04-FS3	PX-A6-SS-05-FS	PX-A6-SS-05-FS3	PX-A6-SS-06-FS	PX-A6-SS-06-FS2	PX-A6-SS-07-FS	PX-A6-SS-07-FS3	PX-A6-SS-08-FS
Depth (inches)		6 / 0	6 / 6	6 / 0	6 / 6	6 / 0	6 / 6	6 / 0	6 / 6	6 / 0	6 / 6	6 / 0	6 / 3	6 / 0	6 / 6	6 / 0
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200							15100								14700
Antimony	5.9							1.1 UN								1.4 BN
****Arsenic**	8.24		9.8 *		41.9 *		12.2 *		6.5 *		16.1 *		7.2 *		3.8 *	
Barium	300							98.2								96.9
Beryllium	1.1							0.72 B								0.72 B
**Cadmium	2.3							0.93 U								0.8 U
Calcium	120,500							4920 *								2480 *
Chromium	29							20.8								20.2
**Cobalt	30							10.4								11.2
**Copper	29.6							20.1								19.6
Iron	35,550							23200								23400
****Lead**	400							29 *								27.2 *
Magnesium	21,500							4000								3860
Manganese	1,056							515								577
****Mercury**	0.1	0.075 B		0.077 B		0.067 B		0.065 B		0.057 B		0.069 B		0.049 B		0.064 B
Nickel	48.9							25.1								24.7
Potassium	2,343							2320 E								2000 E
*Selenium	2							1.5 UN								1.3 UN
Silver	0.763							0.28 U								0.24 U
Sodium	170.3							46.8 B*								44.3 B*
Thallium	0.67							2.8 U								2.4 U
**Vanadium	150							23.8								23.3
Zinc	108.9	81.2		86		86.4		77.2		67.1		100		78.8		76
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400							38 U								35 U
Acenaphthene	50,000							20 U								19 U
Acenaphthylene	41,000							15 U								14 UM
Anthracene	50,000							27 J								15 U
Benzo(a)anthracene	224							120 J								46 J
Benzo(a)pyrene	61							130 J								53 J
Benzo(b)fluoranthene	1,100							110 JM								51 J
Benzo(ghi)perylene	50,000							34 J								21 U
Benzo(k)fluoranthene	1,100							110 JM								49 U
Chrysene	400							140 J								59 J
Dibenzo(a,h)anthracene	14							24 U								23 U
Fluoranthene	50,000							250 J								110 J
Fluorene	50,000							27 UM								25 UM
Indeno(1,2,3-cd)pyrene	3,200							38 J								24 J
Naphthalene	13,000							43 UM								40 UM
Phenanthrene	50,000							160 J								67 J
Pyrene	50,000							240 J								100 J

Analytical Results for Area 6 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A6-SS-08-FS6	PX-A6-SS-08-FS2-W-25(0-1)	PX-A6-SS-08-FS-W-10(1-2)	PX-A6-SS-09-FS	PX-A6-SS-09-FS3	PX-A6-SS-10-FS	PX-A6-SS-10-FS2	PX-A6-SS-11-FS	PX-A6-SS-11-FS3	PX-A6-SS-12-FS	PX-A6-SS-12-FS2
Depth (inches)		6 / 30	12 / 25	60 / 10	6 / 0	6 / 6	6 / 0	6 / 3	6 / 0	6 / 6	6 / 0	6 / 3
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200										15800	
Antimony	5.9										1.2 BN	
****Arsenic**	8.24	28.2 *	10.8	11.4		11.3 *		9.5		6 *		7
Barium	300										119	
Beryllium	1.1										0.78 B	
**Cadmium	2.3										1 U	
Calcium	120,500										3760 *	
Chromium	29										22.7	
**Cobalt	30										10.1	
**Copper	29.6										24.6	
Iron	35,550										24600	
****Lead**	400										25.1 *	
Magnesium	21,500										4230	
Manganese	1,056										552	
****Mercury**	0.1				0.071 B		0.089		0.093		0.076 B	
Nickel	48.9										28.8	
Potassium	2,343										3490 E	
*Selenium	2										1.6 UN	
Silver	0.763										0.3 U	
Sodium	170.3										51.8 B*	
Thallium	0.67										3 U	
**Vanadium	150										24.9	
Zinc	108.9				70.1		76.2		85.1		91.8	
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400										40 U	
Acenaphthene	50,000										22 U	
Acenaphthylene	41,000										16 UM	
Anthracene	50,000										19 J	
Benzo(a)anthracene	224										69 J	
Benzo(a)pyrene	61										72 J	
Benzo(b)fluoranthene	1,100										58 J	
Benzo(ghi)perylene	50,000										24 U	
Benzo(k)fluoranthene	1,100										71 J	
Chrysene	400										80 J	
Dibenzo(a,h)anthracene	14										26 U	
Fluoranthene	50,000										170 J	
Fluorene	50,000										29 UM	
Indeno(1,2,3-cd)pyrene	3,200										28 J	
Naphthalene	13,000										46 U	
Phenanthrene	50,000										130 J	
Pyrene	50,000										150 J	

Analytical Results for Area 7 - FLOOR
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	FX-A7-SS-001-FS	FX-A7-SS-002-FS	FX-A7-SS-003-FS	FX-A7-SS-004-FS	FX-A7-SS-005-FS	FX-A7-SS-006-FS	FX-A7-SS-007-FS	FX-A7-SS-008-FS	FX-A7-SS-009-FS	FX-A7-SS-010-FS
Depth (inches)		6	6	6	6	6	6	6	6	6	6
Metals		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Aluminum	19,200				19200				16900		
Antimony	5.9				1.1 UN				0.98 UN		
****Arsenic**	8.24	5.1	5.3	6.6	6.7 B	5.2 *	5.6 *	5.9	6.5 BN	5.8	6.2
Barium	300				129				129		
Beryllium	1.1				0.86 B				0.93 B		
**Cadmium	2.3				0.89 UN				1.1 BN		
Calcium	120,500				4280 *				5340 *		
Chromium	29				26.8				23.5		
**Cobalt	30				11.2				11.2		
**Copper	29.6				26.5				27.6		
Iron	35,550				30100				27300		
****Lead**	400				20				20.1		
Magnesium	21,500				5020				4540		
Manganese	1,056				555 *				516		
****Mercury**	0.1	0.062 B	0.062 B	0.045 B	0.055 B	0.052 B	0.059 B	0.071 B	0.061 B	0.077 B	0.068 B
Nickel	48.9				33				31.8		
Potassium	2,343				2720 E				2430 E		
*Selenium	2				1.4 UN				1.3 UN		
Silver	0.763				0.27 U				0.25 U		
Sodium	170.3				158				151		
Thallium	0.67				2.7 U				2.5 U		
**Vanadium	150				31.3				26.9		
Zinc	108.9	89	79.9	84.8	84.6	81 *N	83.9 *N	79.9	97.8	88.1	68
PAHs		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400				37 U				41 U		
Acenaphthene	50,000				20 U				22 U		
Acenaphthylene	41,000				18 J				16 U		
Anthracene	50,000				17 J				18 U		
Benzo(a)anthracene	224				65 J				24 J		
Benzo(a)pyrene	61				85 J				31 J		
Benzo(b)fluoranthene	1,100				74 J				56 U		
Benzo(ghi)perylene	50,000				65 J				25 U		
Benzo(k)fluoranthene	1,100				110 J				57 U		
Chrysene	400				91 J				33 J		
Dibenzo(a,h)anthracene	14				24 J				26 U		
Fluoranthene	50,000				170 J				48 J		
Fluorene	50,000				26 UM				29 U		
Indeno(1,2,3-cd)pyrene	3,200				57 J				26 U		
Naphthalene	13,000				42 UM				47 U		
Phenanthrene	50,000				82 J				35 U		
Pyrene	50,000				150 J				47 J		

Analytical Results for Area 7 - PERIMETER
SEAD 50/54 Time Critical Removal Action
SENECA Army Depot

Compound	[1]Cleanup Goal	PX-A7-SS-001-FS	PX-A7-SS-002-FS
Depth (inches)		6 / 0	6 / 0
Metals		(mg/Kg)	(mg/Kg)
Aluminum	19,200		15300
Antimony	5.9		1.5 UN
****Arsenic**	8.24	5 B	6.1 B*
Barium	300		94.3 *
Beryllium	1.1		0.75 B
**Cadmium	2.3		1.3 U
Calcium	120,500		3930 *
Chromium	29		25.5
**Cobalt	30		10.9
**Copper	29.6		26.6
Iron	35,550		29600 *
****Lead**	400		14 *
Magnesium	21,500		5470
Manganese	1,056		384
****Mercury**	0.1	0.053 B	0.039 U
Nickel	48.9		36.9 *
Potassium	2,343		2120
*Selenium	2		2 U
Silver	0.763		0.38 U
Sodium	170.3		173
Thallium	0.67		3.8 U
**Vanadium	150		24.9 *
Zinc	108.9	75.3	95.9
PAHs		(ug/Kg)	(ug/Kg)
2-Methylnaphthalene	36,400		35 U
Acenaphthene	50,000		19 U
Acenaphthylene	41,000		14 UM
Anthracene	50,000		15 U
Benzo(a)anthracene	224		35 J
Benzo(a)pyrene	61		53 J
Benzo(b)fluoranthene	1,100		54 JM
Benzo(ghi)perylene	50,000		32 J
Benzo(k)fluoranthene	1,100		49 UM
Chrysene	400		50 J
Dibenzo(a,h)anthracene	14		22 U
Fluoranthene	50,000		63 J
Fluorene	50,000		25 U
Indeno(1,2,3-cd)pyrene	3,200		29 J
Naphthalene	13,000		40 U
Phenanthrene	50,000		35 J
Pyrene	50,000		76 J

Notes:

1. The Cleanup Goal is based on the NY TAGM No. 4046 Recommended Soil Cleanup Objectives. Values denoted as "SB" in TAGM 4046, were compared with the highlighted values (95th percentile of SEDA Site Background) in lieu of the TAGM "SB" since no background cleanup objectives exist for certain parameters.
2.EPA Risk Based Residential Cleanup Goal for lead
mg/kg= milligram per kilogram
µg/kg= microgram per kilogram

B= Result is less than the CRDL/Reporting Limit (RL), but >/= to the Instrument Detection Limit/method detection limit (MDL).
H= Alternate peak selection upon analytical review
J= Result is less than the RL, but greater than or equal to the MDL.
M= Manually integrated compound.
N= Matrix spike/matrix spike duplicate: Spike recovery exceeds the upper or lower control limits.
E = Result exceeded calibration range, secondary dilution required.
A = Concentration exceeds the instrument calibration range or below the reporting limit.
U= Analyte was not detected at or above the reporting limit.
***** = LCS, LCD, CCV, MS, MSD, Surrogate, RS: Batch QC exceeds the upper or lower control limits.

Analytical Summary for SEAD 50/54
Background Data from Non-Site Impacted Areas
Seneca Army Depot

Compound	[1]Site Cleanup Goal (mg/Kg)	[2]Sample ID	Result (mg/Kg)	Location
Arsenic	**8.24**	**BK-011403-1**	4.9	Outcrop @Creek Bed
		BK-011403-2	10	Outcrop @ Creek bed in SW corner of warehouse road
		BK-011403-2	3.2	Outcrop in Area 4-SEAD 50/54

1. The Cleanup Goal is based on the NY TAGM No. 4046 Recommended Soil Cleanup Objectives value.

2. Background samples were collected on 14 January 2003.

APPENDIX G

WASTE CHARACTERIZATION DATA

SEAD 50/54 Waste Characterization Data
Time Critical Removal Action
Seneca Army Depot

Parameter	Regulatory Limits	Units	SP-A1-SS-001-FS	SP-A1-SS-002-FS	SP-A1-SS-003-FS	SP-A1-SS-004-FS	SP-A2-SS-006-FS	SP-A4-SS-008-FS	SP-A4-SS-009-FS	SP-A5-SS-007-FS	SP-A6-SS-005-FS	SP-SS-010-FS	SP-SS-011-FS	SP-SS-012-FS	SP-SS-013-FS	SP-SS-014-FS	SP-SS-015-FS	SP-SS-016-FS	SP-SS-017-FS	SP-SS-018-FS
Inorganics																				
Corrosivity (pH Solid)		yes/no	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ignitability		Pos/Neg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pH	2 to 2.5	pH Units	7.64	7.65	7.64	7.5	7.79	7.59	7.47	7.14	7.45	7.9	7.73	7.66	7.53	7.75	7.84	7.67	8.04	7.74
Reactivity Cyanide	250000	µg/kg	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Reactivity Sulfide	500000	mg/kg	0	0	0	0	0	0	6.7 U	0	6.7 U	0	0	0	0	6.7 U	6.6 U	6.7 U	6.7 U	6.6 U
% Moisture		%	21	21.1	18.4	16.3	20.2	27.4	29.5	25.5	28.9	16.7	19.9	24.4	24	16.6	21.3	22.9	16.5	22.8
% Solids	>20	%	79	78.9	81.6	83.7	79.8	72.6	70.5	74.5	71.1	83.3	80.1	75.6	76	83.4	78.7	77.1	83.5	77.2
Metals																				
Aluminum		mg/L	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U	0.416 U
Antimony		mg/L	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U	0.0294 U
Arsenic	5	mg/L	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.041 B	0.0348 U	0.0348 U
Barium	100	mg/L	0.666	0.67	0.578	0.481	0.475	0.311	0.378	0.287	0.623	0.623	0.472	0.542	0.387	0.532	0.542	0.368	0.465	0.29
Beryllium		mg/L	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U
Cadmium	1	mg/L	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U
Calcium		mg/L	701	341	447	285	497	218	233	116	470	725	136	231	215	563	328	269	593	104
Chromium	5	mg/L	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U
Cobalt		mg/L	0.0084 B	0.0074 U	0.0255 B	0.0279 B	0.0074 U	0.0119 B	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0098 B	0.0074 U
Copper		mg/L	0.0252 B	0.0246 B	0.0218 B	0.0236 B	0.008 B	0.0135 B	0.0128 B	0.0099 B	0.0072 U	0.0114 B	0.0267 B	0.0246 B	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U
Iron		mg/L	0.426 U	0.734 B	0.426 U	0.57 B	0.426 U	0.426 U	0.426 U	0.426 U	0.426 U	0.426 U	0.426 U	0.426 U	0.426 U	0.426 U	0.426 U	0.426 U	0.426 U	0.426 U
Lead	5	mg/L	0.017 U	0.017 U	0.017 U	0.0174 B	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.203	0.017 UN	0.0197 BN	0.0179 BN	0.017 UN	0.017 UN
Magnesium		mg/L	24.3	18.3	22.9	28.4	47.6	29.3	34.8	15.1	25.4	18.6	12	15.4	22	26.8	18	22.8	21.5	7.06
Manganese		mg/L	4.46	3.43	4.17	4.91	2.18	2.64	1.67	0.751	3.16	2.06	0.28	0.657	0.665	2.05	0.343	0.991	3.14	0.0921
Mercury	0.2	mg/L	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U
Nickel		mg/L	0.0112 B	0.0142 B	0.0201 B	0.0208 B	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0107 B	0.0096 U
Potassium		mg/L	18.6	6.84	10.9	11.8	24.3	28.8	27.2	19.9	19.1	7.95	5.15	9.62	4.64 N	9.52 N	5.52 N	10.7 N	9.36 N	4.08 N
Selenium	1	mg/L	0.0346 U	0.0346 U	0.0346 U	0.0346 U	0.0346 U	0.0346 U	0.0346 U	0.0346 U	0.0346 U	0.0346 UN	0.0346 UN	0.0346 UN	0.0346 U	0.0377 B	0.0399 B	0.0438 B	0.0367 B	0.0454 B
Silver	5	mg/L	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U
Sodium		mg/L	1080	983	1000	1010	750	739	737	742	812	697	663	681	711	688	675	675	665	671
Thallium		mg/L	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U	0.0805 U
Vanadium		mg/L	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U
Zinc		mg/L	0.218 B	0.294	0.205 B	0.186 B	0.081 U	0.096 B	0.081 U	0.088 B	0.081 U	0.081 U	0.102 B	0.0856 B	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U
PCBs																				
Aroclor 1016		µg/kg	8.7 U	1.7 U	1.7 U	3.3 U	1.7 U	1.9 U	1.9 U	1.8 U	1.9 U	1.6 U	1.7 U	1.7 U	1.7 U	3.2 U	3.5 U	3.6 U	3.2 U	3.5 U
Aroclor 1221		µg/kg	7.9 U	1.5 U	1.5 U	3 U	1.6 U	1.7 U	1.8 U	1.6 U	1.8 U	1.5 U	1.6 U	1.6 U	1.6 U	1.8 U	1.9 U	2 U	1.7 U	1.9 U
Aroclor 1232		µg/kg	9 U	1.8 U	1.7 U	3.4 U	1.8 U	1.9 U	2 U	1.8 U	2 U	1.7 U	1.8 U	1.8 U	1.8 U	2.1 U	2.3 U	2.4 U	2.1 U	2.3 U
Aroclor 1242		µg/kg	550	210	230	340	42	2 U	42	34	39	1.8 U	18 J	19 J	1.9 U	3.4 U	35	3.9 U	15 J	3.7 U
Aroclor 1248		µg/kg	6.3 U	1.2 U	1.2 U	2.4 U	1.2 U	1.4 U	1.4 U	1.3 U	1.4 U	1.2 U	1.2 U	1.3 U	1.3 U	3.1 U	3.3 U	3.5 U	3 U	3.3 U
Aroclor 1254		µg/kg	190	77	100 M	170	15 J	2.1 U	18 J	17 J	23 J	1.9 U	2 U	2 U	2 U	5 JM	19 J	1.6 U	1.4 U	1.5 U
Aroclor 1260		µg/kg	150	65	74	130	16 J	1.9 U	14 J	35 M	13 J	1.7 U	10 J	7.2 J	1.8 U	4.6 U	17 J	5.1 U	4.5 U	4.9 U
Total	1000	µg/kg	890	352	404	640	73	6	74	86	75	5.4	30	28.2	5.7	13	71	10.6	20.9	10.1
Pesticides																				
4 4'-DDD		µg/kg	0.48 U	0.47 U	8.7	0.45 U	0.47 U	0.52 U	0.53 U	0.98 U	0.53 U	0.45 U	0.47 U	0.48 U	0.48 U	0.44 U	0.47 U	0.49 U	0.43 U	0.47 U
4 4'-DDE		µg/kg	7.1	2.7 J	5.9	4.8 M	26	0.59 U	14	9.3	0.61 U	1.3 J	0.78 J	1.8 J	0.55 U	2.4 J	0.53 U	2.9 J	3.2 J	0.54 U
4 4'-DDT		µg/kg	0.88 J	0.38 U	4.6	0.81 J	39	1.8 J	0.67 J	1.9 J	1.4 J	0.37 U	0.38 U	0.39 U	0.39 U	1.9 J	0.38 U	0.4 U	0.35 U	0.38 U
Aldrin		µg/kg	0.45 U	0.44 U	0.43 U	0.42 U	0.44 U	0.48 U	0.49 U	0.91 U	0.5 U	0.42 U	0.44 U	0.45 U	0.45 U	0.41 U	0.44 U	0.46 U	0.4 U	0.44 U
alpha-BHC		µg/kg	0.35 U	0.34 U	0.33 U	0.33 U	5.1	0.37 U	0.38 U	0.71 U	2.7	0.33 U	0.34 U	0.35 U	0.35 U	0.31 U	0.34 U	0.35 U	0.31 U	0.34 U
alpha-Chlordane		µg/kg	2.4	2.5	2.6	1.5 J	0.14 U	0.15 U	0.15 U	0.28 U	0.15 U	0.13 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U	0.12 U	0.14 U
beta-BHC		µg/kg	0.34 U	0.33 U	0.32 U	0.32 U	0.33 U	0.37 U	0.37 U	0.69 U	0.38 U	0.32 U	0.33 U	0.34 U	0.34 U	0.31 U	0.33 U	0.35 U	0.3 U	0.33 U
delta-BHC		µg/kg	2.1 J	0.82 J	0.95 J	1.2 J	0.13 U	0.14 U	0.14 U	0.26 U	0.14 U	0.12 U	0.13 U	0.13 U	0.13 U	3.6	0.13 U	0.13 U	4.9	0.13 U
Dieldrin		µg/kg	0.4 U	8	0.39 U	0.38 U	2.7 J	23	0.45 U	100	0.45 U	0.38 U	0.4 U	0.41 U	0.41 U	0.88 J	0.39 U	0.41 U	0.36 U	0.4 U
Endosulfan I		µg/kg	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.2 U	0.2 U	0.38 U	0.21 U	0.18 U	0.18 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.17 U	0.18 U
Endosulfan II		µg/kg	0.21 U	0.21 U	0.2 U	0.2 U	0.21 U	0.23 U	0.24 U	0.44 U	0.24 U	0.2 U	0.21 U	0.21 U	0.22 U	0.19 U	0.21 U	0.22 U	0.19 U	0.21 U
Endosulfan sulfate		µg/kg	0.22 U	0.21 U	0.21 U	0.21 U	0.22 U	0.24 U	0.24 U	1.2 J	0.24 U	0.21 U	0.21 U	0.22 U	0.22 U	1.8 J	0.21 U	2.3 J	4	0.21 U
Endrin	400	µg/kg	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	2.3 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1 U	1.1 U

SEAD 50/54 Waste Characterization Data
Time Critical Removal Action
Seneca Army Depot

Parameter	Regulatory Limits	Units	SP-A1-SS-001-FS		SP-A1-SS-002-FS		SP-A1-SS-003-FS		SP-A1-SS-004-FS		SP-A2-SS-006-FS		SP-A4-SS-008-FS		SP-A4-SS-009-FS		SP-A5-SS-007-FS		SP-A6-SS-005-FS		SP-SS-010-FS		SP-SS-011-FS		SP-SS-012-FS		SP-SS-013-FS		SP-SS-014-FS		SP-SS-015-FS		SP-SS-016-FS		SP-SS-017-FS		SP-SS-018-FS	
Endrin aldehyde		µg/kg	0.41	U	0.4	U	0.39	U	0.38	U	0.4	U	0.44	U	0.45	U	0.83	U	0.45	U	0.39	U	0.4	U	0.41	U	0.41	U	0.37	U	0.4	U	0.42	U	0.36	U	0.4	U
Endrin ketone		µg/kg	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.2	U	0.2	U	0.37	U	0.2	U	0.17	U	0.18	U	0.18	U	0.18	U	0.16	U	0.18	U	0.19	U	0.16	U	0.18	U
gamma-BHC (Lindane)	8000	µg/kg	0.19	U	0.19	U	0.18	U	0.18	U	0.68	J	0.21	U	0.21	U	0.39	U	0.48	J	0.18	U	0.19	U	0.19	U	0.22	J	0.17	U	0.19	U	0.2	U	0.17	U	0.19	U
gamma-Chlordane	600	µg/kg	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.13	U	0.23	U	0.13	U	1.5	J	0.29	J	0.11	U	0.12	U	0.48	J	0.11	U	0.12	U	0.63	J	0.11	U
Heptachlor	160	µg/kg	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.2	U	0.21	U	0.38	U	0.21	U	0.18	U	0.19	U	0.19	U	0.19	U	0.54	JB	0.18	U	0.57	JB	0.57	JB	0.47	JB
Heptachlor epoxide		µg/kg	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.16	U	0.29	U	0.16	U	0.14	U	0.14	U	0.14	U	0.14	U	0.13	U	0.14	U	0.15	U	0.13	U	0.14	U
Methoxychlor	200000	µg/kg	2.7	U	2.6	U	2.5	U	2.5	U	2.6	U	2.9	U	2.9	U	5.4	U	3	U	4.5	J	2.6	U	2.7	U	2.7	U	2.4	U	2.6	U	2.7	U	2.4	U	2.6	U
Toxaphene	10000	µg/kg	6.1	U	5.9	U	5.8	U	5.7	U	6	U	6.6	U	6.7	U	12	U	6.7	U	5.8	U	6	U	6.1	U	6.1	U	5.5	U	5.9	U	6.2	U	5.5	U	6	U
SVOCs																																					
1 2 4-Trichlorobenzene		µg/kg	31	U	31	U	29	U	29	U	31	U	34	U	34	U	33	U	35	U	28	U	31	U	32	U	32	U	29	U	31	U	32	U	28	U	32	U
1 2-Dichlorobenzene		µg/kg	22	U	23	U	21	U	21	U	22	U	24	U	25	U	24	U	25	U	21	U	22	U	23	U	23	U	21	U	23	U	23	U	20	U	23	U
1 3-Dichlorobenzene		µg/kg	20	U	20	U	19	U	19	U	20	U	22	U	22	U	21	U	22	U	18	U	20	U	20	U	21	U	19	U	20	U	20	U	18	U	21	U
1 4-Dichlorobenzene	150000	µg/kg	23	U	24	U	22	U	22	U	24	U	26	U	26	U	25	U	26	U	22	U	24	U	24	U	24	U	22	U	24	U	24	U	22	U	24	U
2 2-oxybis (1-chloropropane)		µg/kg	22	U	23	U	21	U	21	U	22	U	24	U	25	U	24	U	25	U	21	U	22	U	23	U	23	U	21	U	23	U	23	U	20	U	23	U
2 4 5-Trichlorophenol	8000000	µg/kg	12	U	13	U	12	U	12	U	12	U	13	U	14	U	13	U	14	U	11	U	12	U	13	U	13	U	12	U	13	U	13	U	11	U	13	U
2 4 6-Trichlorophenol	40000	µg/kg	22	U	23	U	21	U	21	U	22	U	24	U	25	U	24	U	25	U	21	U	22	U	23	U	23	U	21	U	23	U	23	U	20	U	23	U
2 4-Dichlorophenol		µg/kg	37	U	38	U	35	U	35	U	37	U	40	U	41	U	40	U	42	U	34	U	37	U	38	U	39	U	35	U	38	U	38	U	34	U	39	U
2 4-Dimethylphenol		µg/kg	39	U	40	U	37	U	37	U	40	U	43	U	44	U	42	U	44	U	36	U	40	U	40	U	41	U	37	U	40	U	40	U	36	U	41	U
2 4-Dinitrophenol		µg/kg	63	U	64	U	59	U	60	U	63	U	69	U	70	U	68	U	71	U	58	U	63	U	64	U	66	U	59	U	64	U	64	U	58	U	66	U
2 4-Dinitrotoluene	2600	µg/kg	23	U	24	U	22	U	22	U	24	U	26	U	26	U	25	U	26	U	22	U	24	U	24	U	24	U	22	U	24	U	24	U	22	U	24	U
2 6-Dinitrotoluene		µg/kg	17	U	18	U	16	U	16	U	17	U	19	U	19	U	19	U	19	U	16	U	17	U	18	U	18	U	16	U	18	U	18	U	16	U	18	U
2-Chloronaphthalene		µg/kg	23	U	24	U	22	U	22	U	24	U	26	U	26	U	25	U	26	U	22	U	24	U	24	U	24	U	22	U	24	U	24	U	22	U	24	U
2-Chlorophenol		µg/kg	30	U	30	U	28	U	28	U	30	U	32	U	33	U	32	U	33	U	27	U	30	U	30	U	31	U	28	U	30	U	30	U	27	U	31	U
2-Methylnaphthalene		µg/kg	35	U	35	U	32	U	33	U	35	U	38	U	38	U	37	U	39	U	32	U	35	U	35	U	36	U	32	U	35	U	35	U	32	U	36	U
2-Methylphenol	4000000	µg/kg	20	U	20	U	19	U	19	U	20	U	22	U	22	U	21	U	22	U	18	U	20	U	20	U	21	U	19	U	20	U	20	U	18	U	21	U
2-Nitroaniline		µg/kg	27	U	28	U	25	U	26	U	27	U	30	U	30	U	29	U	31	U	25	U	27	U	28	U	28	U	26	U	28	U	28	U	25	U	28	U
2-Nitrophenol		µg/kg	35	U	35	U	32	U	33	U	35	U	38	U	38	U	37	U	39	U	32	U	35	U	35	U	36	U	32	U	35	U	35	U	32	U	36	U
3 3-Dichlorobenzidine		µg/kg	42	U	43	U	39	U	40	U	42	U	46	U	47	U	45	U	47	U	39	U	42	U	43	U	44	U	39	U	43	U	43	U	39	U	44	U
3-Nitroaniline		µg/kg	22	U	23	U	21	U	21	U	22	U	24	U	72	J	24	U	25	U	21	U	22	U	23	U	23	U	21	U	23	U	23	U	20	U	23	U
4 6-Dinitro-2-methylphenol		µg/kg	35	U	35	U	32	U	33	U	35	U	38	U	38	U	37	U	39	U	32	U	35	U	35	U	36	U	32	U	35	U	35	U	32	U	36	U
4-Bromophenyl phenyl ether		µg/kg	16	U	16	U	15	U	15	U	16	U	18	U	18	U	17	U	18	U	15	U	16	U	16	U	17	U	15	U	16	U	16	U	15	U	17	U
4-Chloro-3-methylphenol		µg/kg	38	U	39	U	36	U	36	U	39	U	42	U	43	U	41	U	43	U	35	U	38	U	39	U	40	U	36	U	39	U	39	U	35	U	40	U
4-Chloroaniline		µg/kg	31	U	31	U	29	U	29	U	31	U	34	U	34	U	33	U	35	U	28	U	31	U	32	U	32	U	29	U	31	U	32	U	28	U	32	U
4-Chlorophenyl phenyl ether		µg/kg	20	U	20	U	19	U	19	U	20	U	22	U	22	U	21	U	22	U	18	U	20	U	20	U	21	U	19	U	20	U	20	U	18	U	21	U
4-Methylphenol	4000000	µg/kg	22	U	23	U	21	U	21	U	22	U	24	U	25	U	24	U	25	U	21	U	22	U	23	U	23	U	21	U	23	U	23	U	20	U	23	U
4-Nitroaniline		µg/kg	30	U	30	U	28	U	28	U	30	U	32	U	33	U	32	U	33	U	27	U	30	U	31	U	28	U	30	U	30	U	30	U	27	U	31	U
4-Nitrophenol		µg/kg	100	U	110	U	98	U	100	U	110	U	110	U	120	U	110	U	120	U	97	U	110	U	110	U	110	U	99	U	110	U	110	U	97	U	110	U
Acenaphthene		µg/kg	18	U	19	U	17	U	18	U	19	U	21	J	21	U	20	U	21	U	17	U	19	J	19	U	19	U	100	J	19	U	19	U	130	J	19	U
Acenaphthylene		µg/kg	14	U	14	U	13	U	13	U	14	U	15	U	33	J	15	U	39	J	13	U	14	UM	14	U	14	U	13	U	14	U	24	J	13	U	14	U
Aniline		µg/kg	52	U	53	U	49	U	49	U	52	U	57	U	58	U	130	J	58	U	48	U	52	U	53	U	54	U	49	U	53	U	53	U	48	U	54	U
Anthracene		µg/kg	15	U	15	U	14	U	14	UM	22	J	70	J	28	J	16	U	61	J	14	U	71	J	28	J	15	U	240	J	15	U	57	J	220	J	15	UM
Benzo(a)anthracene		µg/kg	38	J	25	J	17	U	21	J	110	J	490		120	J	29	J	200	J	17	U	170	J	73	J	19	U	600		19	U	160	J	550		20	JM
Benzo(a)pyrene		µg/kg	39	J	26	J	19	U	21	J	120	J	400	J	130	J	38	J	210	J	18	U	120	J	67	J	21	U	490		20	U	120	J	500		21	U
Benzo(b)fluoranthene		µg/kg	47	UH	48	U	44	U	44	U	120	J	460		130	JH	50	UH	190	JH	43	UH	120	JH	65	JH	49	U	500		48	U	110	J	480		49	UM
Benzo(ghi)perylene		µg/kg	31	J	21	U	20	U	20	U	88	J	110	J	87	J	27	J	110	J	19	U	67	J	45	J	22	U	320	J	21	U	77	J	370	J	22	U
Benzo(k)fluoranthene		µg/kg	48	U	49	U	45	U	46	U	140	J	460		140	J	52	U	230	J	44	U	130	J	62	J	50	U	490		49	U	120	J	530		50	UM
Benzoic acid		µg/kg	820	U	830	U	770	U	780	U	820	U	890	U	910	U	880	U	920	U	750	U	820	U	840	U	850	U	770	U	830	U	840	U	750	U	850	U
Benzyl alcohol		µg/kg	28	U	29	U	27	U	27	U	29	U	31	U	32	U	30	U	32	U	26	U	29	U	29	U	30	U	27	U	29	U	29	U	26	U	30	U
Bis(2-chloroethoxy)methane		µg/kg	17	U	18	U	16	U	16	U	17	U	19	U	19	U	19	U	19	U	16	U	17	U	18	U	18	U	16	U	18	U	18	U	16	U	18	U
Bis(2-chloroethyl)ether		µg/kg	130	U	130	U	120	U	120	U	130	U	140	U	140	U	140	U	140	U	120	U	130	U	130	U	130	U	120	U	130	U	130	U	120	U	130	U
Bis(2-ethylhexyl)phthalate		µg/kg	44	U	45	U	42	U	85	JM	81	JB	130	JB	120	JB	88	JB	110	JB	41	UMB	45	UB	46	UMB	46	UM	110	JB	110	JB	130	JB	100	JB	110	JB
Butyl benzyl phthalate		µg/kg	16	U	16	U	15	U	15	U	16	U	18	U	18	U	17	U	18	U	15	U	16	U	16	U	17	UM	27	JB	22	JB	32	JB	17	JB	17	UMB
Chrysene		µg/kg	53	J	35	J	24	J	29	J	150	J	560		160	J	45	J	250	J	23	J	170	J	79	J	22	U	650		21	U	170	J	610		28	J
Dibenzo(a h)anthracene		µg/kg	22	U	23	U	21	U	21	U	39	J	50	J	33	J	24	U	39	J	21	U	26	J	23	U	23	U	160	J	23	U	48	JM	160	J	23	U
Dibenzofuran		µg/kg	18	U	19	U	17	U	18	U	19	U	20	U	21	U	20	U	21	U	17	U	19	U	19	U	19	U	30	J	19	U	19	U	38	J	19	U
Diethyl phthalate		µg/kg	21	U	67	J	130	J	59	J	21	U	23	U	23	U	23	U	24	U	19	U	21	U	21	U	22	UM	20	U	21	U	21	UM	19	U	22	UM
Dimethyl phthalate		µg/kg	18	U	19	U	17	U	18	U	19	U	20	U	21	U	20	U	21	U	17	U	19	U	19	U	19	U	17	U	19	U	19	U	17	U	19	U

SEAD 50/54 Waste Characterization Data
Time Critical Removal Action
Seneca Army Depot

Parameter	Regulatory Limits	Units	SP-A1-SS-001-FS	SP-A1-SS-002-FS	SP-A1-SS-003-FS	SP-A1-SS-004-FS	SP-A2-SS-006-FS	SP-A4-SS-008-FS	SP-A4-SS-009-FS	SP-A5-SS-007-FS	SP-A6-SS-005-FS	SP-SS-010-FS	SP-SS-011-FS	SP-SS-012-FS	SP-SS-013-FS	SP-SS-014-FS	SP-SS-015-FS	SP-SS-016-FS	SP-SS-017-FS	SP-SS-018-FS
Di-n-butyl phthalate		µg/kg	17 U	18 U	16 U	33 JM	17 U	19 U	19 U	19 U	19 UM	16 UM	17 UM	18 UM	18 UMB	43 JB	39 JB	36 JB	27 JB	30 JB
Di-n-octyl phthalate		µg/kg	15 U	15 U	14 U	14 U	15 U	16 U	16 U	16 U	17 U	14 U	15 U	15 U	15 U	14 U	15 U	23 JM	14 U	15 U
Fluoranthene		µg/kg	96 J	69 J	34 J	46 J	210 J	930	250 J	69 J	500	36 J	400 J	160 J	28 U	1300 H	28 UH	240 JH	1300 H	45 JH
Fluorene		µg/kg	25 U	25 U	23 U	23 U	25 UM	27 UM	27 U	26 U	28 UM	23 U	39 J	25 UM	26 U	80 J	25 U	25 UM	89 J	26 U
Hexachlorobenzene	2600	µg/kg	23 U	24 U	22 U	22 U	24 U	26 U	26 U	25 U	26 U	22 U	24 U	24 U	24 U	22 U	24 U	24 U	22 U	24 U
Hexachlorobutadiene	10000	µg/kg	41 U	41 U	38 U	39 U	41 U	45 U	45 U	44 U	46 U	38 U	41 U	42 U	43 U	38 U	41 U	42 U	38 U	42 U
Hexachlorocyclopentadiene		µg/kg	55 U	56 U	52 U	53 U	56 U	61 U	62 U	60 U	62 U	51 U	56 U	57 U	58 U	52 U	56 U	57 U	51 U	58 U
Hexachloroethane	60000	µg/kg	26 U	26 U	24 U	25 U	26 U	28 U	29 U	28 U	29 U	24 U	26 U	27 U	27 U	24 U	26 U	27 U	24 U	27 U
Indeno(1 2 3-cd)pyrene		µg/kg	30 J	23 U	21 U	21 U	81 J	130 J	86 J	26 J	120 J	21 U	66 J	40 J	23 U	330 J	23 U	81 J	360 J	23 UH
Isophorone		µg/kg	28 U	29 U	27 U	27 U	29 U	31 U	32 U	30 U	32 U	26 U	29 U	29 U	30 U	27 U	29 U	29 U	26 U	30 U
Naphthalene		µg/kg	39 U	40 U	37 U	37 U	40 U	43 U	44 U	42 U	44 U	36 U	40 U	40 UM	41 U	37 UM	40 U	40 U	36 U	41 U
Nitrobenzene	40000	µg/kg	31 U	31 U	29 U	29 U	31 U	34 U	34 U	33 U	35 U	28 U	31 U	32 U	32 U	29 U	31 U	32 U	28 U	32 U
n-Nitroso-di-n-propylamine		µg/kg	17 U	18 U	16 U	16 U	17 U	19 U	19 U	19 U	19 U	16 U	17 U	18 U	18 U	16 U	18 U	18 U	16 U	18 U
n-Nitrosodiphenylamine		µg/kg	20 U	20 U	19 U	19 U	20 U	22 U	22 U	21 U	22 U	18 U	20 U	20 U	21 U	19 U	20 U	20 U	18 U	21 U
Pentachlorophenol	2000000	µg/kg	53 U	54 U	50 U	50 U	54 U	58 U	59 U	57 U	60 U	49 U	53 U	54 U	55 U	50 U	54 U	54 U	49 U	55 U
Phenanthrene		µg/kg	65 J	41 J	28 U	29 J	97 J	270 J	130 J	44 J	290 J	27 U	340 J	120 J	31 U	880	30 U	140 J	930	31 U
Phenol		µg/kg	30 U	30 U	28 U	28 U	30 U	32 U	33 U	170 J	33 U	27 U	30 U	30 U	31 U	28 U	30 U	30 U	27 U	31 U
Pyrene		µg/kg	81 J	55 J	29 J	40 J	200 J	840	260 J	70 J	380 J	34 J	320 J	160 J	24 U	1100	24 U	240 J	1200	38 J
Pyridine	100000	µg/kg					70 U	76 U	77 U	74 U	78 U	64 U	69 U	71 U	72 U	65 U	70 U	71 U	64 U	72 U
VOCs																				
1 1 1 2-Tetrachloroethane		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
1 1 1-Trichloroethane		µg/kg	34 U	40 U	30 U	46 U	42 U	51 U	49 U	40 U	44 U	21 U	29 U	34 U	26 U	29 U	21 U	29 U	24 U	27 U
1 1 2 2-Tetrachloroethane		µg/kg	48 U	57 U	43 U	65 U	59 U	72 U	69 U	56 U	62 U	30 U	41 U	48 U	37 U	41 U	30 U	40 U	34 U	38 U
1 1 2-Trichloroethane		µg/kg	23 U	27 U	20 U	31 U	28 U	34 U	33 U	27 U	29 U	14 U	19 U	22 U	17 U	19 U	14 U	19 U	16 U	18 U
1 1-Dichloroethane		µg/kg	33 U	39 U	29 U	44 U	40 U	49 U	47 U	38 U	42 U	20 U	28 U	32 U	25 U	28 U	20 U	27 U	23 U	26 U
1 1-Dichloroethene	14000	µg/kg	18 U	22 U	16 U	25 U	23 U	28 U	27 U	22 U	24 U	11 U	16 U	18 U	14 U	16 U	12 U	16 U	13 U	15 U
1 1-Dichloropropene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
1 2 3-Trichlorobenzene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
1 2 3-Trichloropropane		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
1 2 4-Trichlorobenzene		µg/kg	280 U	330 U	250 U	370 U														
1 2 4-Trimethylbenzene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
1 2-Dibromo-3-chloropropane		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
1 2-Dibromoethane (EDB)		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
1 2-Dichlorobenzene		µg/kg	49 U	59 U	44 U	67 U	60 U	74 U	71 U	58 U	64 U	30 U	42 U	49 U	38 U	42 U	31 U	41 U	34 U	39 U
1 2-Dichloroethane	10000	µg/kg	73 U	87 U	65 U	99 U	90 U	110 U	110 U	86 U	94 U	45 U	62 U	73 U	56 U	62 U	46 U	61 U	51 U	59 U
1 2-Dichloroethene (total)		µg/kg	39 U	47 U	35 U	54 U	49 U	59 U	57 U	46 U	51 U	24 U	34 U	39 U	30 U	34 U	25 U	33 U	28 U	32 U
1 2-Dichloropropane		µg/kg	16 U	20 U	15 U	22 U	20 U	25 U	24 U	19 U	21 U	10 U	14 U	16 U	13 U	14 U	10 U	14 U	11 U	13 U
1 3 5-Trimethylbenzene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
1 3-Dichlorobenzene		µg/kg	47 U	55 U	42 U	63 U	57 U	70 U	67 U	55 U	60 U	29 U	40 U	46 U	36 U	40 U	29 U	39 U	33 U	37 U
1 3-Dichloropropane		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
1 4-Dichlorobenzene		µg/kg	56 U	67 U	50 U	77 U	69 U	85 U	82 U	66 U	73 U	35 U	48 U	56 U	44 U	48 U	35 U	48 U	40 U	45 U
2 2-Dichloropropane		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
2-Butanone (MEK)	4000000	µg/kg	100 U	120 U	93 U	140 U	130 U	160 U	150 U	120 U	140 U	65 U	89 U	100 U	81 U	89 U	66 U	88 U	73 U	84 U
2-Chloro-1 3-butadiene (chloro		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
2-Chlorotoluene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
2-Hexanone		µg/kg	98 U	120 U	88 U	130 U	120 U	150 U	140 U	120 U	130 U	61 U	83 U	97 U	76 U	84 U	61 U	83 U	69 U	79 U
3-Chloropropene (Allyl Chlorid		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
4-Chlorotoluene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
4-Methyl-2-pentanone (MIBK)		µg/kg	120 U	140 U	100 U	160 U	140 U	170 U	170 U	140 U	150 U	72 U	99 U	120 U	90 U	99 U	73 U	98 U	82 U	93 U
Acetone		µg/kg	990	810 U	610 U	930 U	840 U	1000 U	990 U	800 U	880 U	420 U	580 U	680 U	530 U	580 U	430 U	570 U	480 U	550 U
Benzene	10000	µg/kg	25 U	29 U	22 U	33 U	30 U	37 U	36 U	29 U	32 U	15 U	21 U	24 U	19 U	21 U	15 U	21 U	17 U	20 U
Bromobenzene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
Bromochloromethane		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
Bromodichloromethane		µg/kg	24 U	29 U	22 U	33 U	30 U	36 U	35 U	29 U	31 U	15 U	21 U	24 U	19 U	21 U	15 U	20 U	17 U	19 U
Bromoform		µg/kg	26 U	31 U	23 U	36 U	32 U	39 U	38 U	31 U	34 U	16 U	22 U	26 U	20 U	22 U	16 U	22 U	18 U	21 U
Bromomethane		µg/kg	58 U	69 U	52 U	79 U	71 U	87 U	84 U	68 U	75 U	36 U	49 U	58 U	45 U	49 U	36 U	49 U	41 U	47 U
Carbon disulfide		µg/kg	2 U	3 U	2 U	3 U	3 U	3 U	3 U	3 U	3 U	1 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U

SEAD 50/54 Waste Characterization Data
Time Critical Removal Action
Seneca Army Depot

Parameter	Regulatory Limits	Units	SP-A1-SS-001-FS	SP-A1-SS-002-FS	SP-A1-SS-003-FS	SP-A1-SS-004-FS	SP-A2-SS-006-FS	SP-A4-SS-008-FS	SP-A4-SS-009-FS	SP-A5-SS-007-FS	SP-A6-SS-005-FS	SP-SS-010-FS	SP-SS-011-FS	SP-SS-012-FS	SP-SS-013-FS	SP-SS-014-FS	SP-SS-015-FS	SP-SS-016-FS	SP-SS-017-FS	SP-SS-018-FS
Carbon tetrachloride	10000	µg/kg	34 U	40 U	30 U	46 U	42 U	51 U	49 U	40 U	44 U	21 U	29 U	34 U	26 U	29 U	21 U	29 U	24 U	27 U
Chlorobenzene	2000000	µg/kg	44 U	52 U	39 U	59 U	54 U	65 U	63 U	51 U	57 U	27 U	37 U	43 U	34 U	37 U	27 U	37 U	31 U	35 U
Chloroethane		µg/kg	39 U	47 U	35 U	54 U	48 U	59 U	57 U	46 U	51 U	24 U	34 U	39 U	30 U	34 U	25 U	33 U	28 U	32 U
Chloroform	120000	µg/kg	80 U	95 U	71 U	110 U	98 U	120 U	120 U	94 U	100 U	49 U	68 U	79 U	62 U	68 U	50 U	67 U	56 U	64 U
Chloromethane		µg/kg	37 U	44 U	33 U	51 U	46 U	56 U	54 U	44 U	48 U	23 U	32 U	37 U	29 U	32 U	23 U	31 U	26 U	30 U
cis-1 2-Dichloroethene		µg/kg	39 U	47 U	35 U	54 U	49 U	59 U	57 U	46 U	51 U	24 U	34 U	39 U	30 U	34 U	25 U	33 U	28 U	32 U
cis-1 3-Dichloropropene		µg/kg	22 U	27 U	20 U	30 U	27 U	33 U	32 U	26 U	29 U	14 U	19 U	22 U	17 U	19 U	14 U	19 U	16 U	18 U
Dibromochloromethane		µg/kg	24 U	29 U	22 U	33 U	30 U	37 U	35 U	29 U	32 U	15 U	21 U	24 U	19 U	21 U	15 U	21 U	17 U	20 U
Dibromomethane		µg/kg	24 U	29 U	22 U	33 U	30 U	36 U	35 U	29 U	31 U	15 U	21 U	24 U	19 U	21 U	15 U	20 U	17 U	19 U
Dichlorodifluoromethane		µg/kg	30 U	36 U	27 U	41 U	37 U	45 U	43 U	35 U	39 U	18 U	25 U	30 U	23 U	25 U	19 U	25 U	21 U	24 U
Ethylbenzene		µg/kg	42 U	50 U	37 U	57 U	51 U	62 U	60 U	49 U	54 U	26 U	35 U	41 U	32 U	35 U	26 U	35 U	29 U	33 U
Ethylmethacrylate		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
Hexachlorobutadiene		µg/kg	280 U	330 U	250 U	370 U														
Isopropylbenzene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
m&p-Xylenes		µg/kg	100 U	120 U	90 U	140 U	120 U	150 U	150 U	120 U	130 U	62 U	85 U	100 U	78 U	86 U	63 U	85 U	70 U	81 U
Methylene chloride		µg/kg	69 U	82 U	62 U	94 U	85 U	100 U	100 U	81 U	89 U	43 U	59 U	69 U	53 U	59 U	43 U	58 U	48 U	55 U
Methylmethacrylate		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
Methyl-tert-butyl-ether (MTBE)		µg/kg	18 U	21 U	16 U	24 U	22 U	27 U	26 U	21 U	23 U	11 U	15 U	18 U	14 U	15 U	11 U	15 U	13 U	14 U
Naphthalene		µg/kg	280 U	330 U	250 U	370 U														
n-Butylbenzene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
n-Propylbenzene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
o-Xylene		µg/kg	44 U	53 U	39 U	60 U	54 U	66 U	64 U	52 U	57 U	27 U	38 U	44 U	34 U	38 U	28 U	37 U	31 U	35 U
p-Isopropyltoluene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
sec-Butylbenzene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
Styrene		µg/kg	42 U	50 U	37 U	57 U	52 U	63 U	61 U	49 U	54 U	26 U	36 U	42 U	32 U	36 U	26 U	35 U	29 U	34 U
tert-Butylbenzene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
Tetrachloroethene	14000	µg/kg	55 U	65 U	49 U	74 U	67 U	82 U	79 U	65 U	71 U	34 U	47 U	54 U	42 U	47 U	34 U	46 U	38 U	44 U
Tetrahydrofuran		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
Toluene		µg/kg	48 U	57 U	43 U	65 U	59 U	72 U	70 U	57 U	62 U	30 U	41 U	48 U	37 U	41 U	30 U	41 U	34 U	39 U
trans-1 2-Dichloroethene		µg/kg	32 U	38 U	28 U	43 U	39 U	47 U	46 U	37 U	41 U	20 U	27 U	31 U	24 U	27 U	20 U	27 U	22 U	25 U
trans-1 3-Dichloropropene		µg/kg	21 U	26 U	19 U	29 U	26 U	32 U	31 U	25 U	28 U	13 U	18 U	21 U	17 U	18 U	13 U	18 U	15 U	17 U
trans-1 4-Dichloro-2-butene		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
Trichloroethene	10000	µg/kg	17 U	21 U	15 U	23 U	21 U	26 U	25 U	20 U	22 U	11 U	15 U	17 U	13 U	15 U	11 U	15 U	12 U	14 U
Trichlorofluoromethane		µg/kg	53 U	63 U	47 U	72 U	65 U	79 U	77 U	62 U	68 U	33 U	45 U	53 U	41 U	45 U	33 U	45 U	37 U	42 U
Trichlorotrifluoroethane		µg/kg	280 U	330 U	250 U	370 U	340 U	410 U	400 U	320 U	360 U	170 U	230 U	270 U	210 U	230 U	170 U	230 U	190 U	220 U
Vinyl acetate		µg/kg	110 U	130 U	95 U	150 U	130 U	160 U	150 U	130 U	140 U	66 U	91 U	110 U	82 U	91 U	67 U	90 U	75 U	86 U
Vinyl chloride	4000	µg/kg	58 U	69 U	52 U	79 U	71 U	87 U	84 U	68 U	75 U	36 U	49 U	58 U	45 U	49 U	36 U	49 U	41 U	47 U

Notes:

B= Result is less than the CRDL/Reporting Limit (RL), but greater than or equal to the Instrument Detection Limit/method detection limit (MDL).

H= Alternate peak selection upon analytical review

J= Result is less than the RL, but greater than or equal to the MDL.

M= Manually integrated compound.

mg/kg= milligram per kilogram

mg/L= milligram per Liter

µg/kg= microgram per kilogram

N= Matrix spike/matrix spike duplicate: Spike recovery exceeds the upper or lower control limits.

U= Analyte was not detected at or above the reporting limit.

APPENDIX H

MANIFEST TRACKING SUMMARY

Manifest Tracking Summary
SEAD 50/54 Soil Removal
Seneca Army Depot
13 March 2003

DATE	TIME IN	TIME OUT	DESTINATION	AREAS MATERIAL ORIGINATED	HAULER COMPANY NAME	TRUCK ID#	TARE WEIGHT (LBS)	SCALE (LBS)	NET WEIGHT (tons)	MANIFEST NO.	MATERIAL TYPE
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	73520	22.71	8	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	69040	20.47	20	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	69420	20.66	35	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	70360	21.13	47	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	68640	20.27	59	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	50840	12.94	1	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	56100	15.57	16	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	56480	15.76	31	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	56040	15.54	42	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	55640	15.34	54	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	66700	19.43	10	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	71000	21.58	25	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	66600	19.38	37	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	72280	22.22	49	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	70320	21.24	60	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	72320	22.08	9	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	64520	18.18	24	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	68940	20.39	36	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	70320	21.08	48	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	71560	21.70	61	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	27400	69940	21.27	11	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	27400	69400	22.50	17	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	27400	68480	22.04	58	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	27400	73360	24.48	45	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	27400	69960	22.78	34	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	74780	23.36	12	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	72160	22.05	21	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	69520	20.73	43	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	67400	19.67	32	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	71420	21.68	55	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	22-77	35660	85460	24.90	13	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	67040	19.55	6	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	71840	21.95	46	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	70180	21.12	15	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	70120	21.09	57	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	69460	20.76	33	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	50580	10.94	7	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	67900	19.60	22	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	67080	19.19	30	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	67960	19.63	44	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	65680	18.49	56	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	51260	11.68	4	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	73240	22.67	14	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	70300	21.20	38	Non-Haz Soil

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DATE	TIME IN	TIME OUT	DESTINATION	AREAS MATERIAL ORIGINATED	HAULER COMPANY NAME	TRUCK ID#	TARE WEIGHT (LBS)	SCALE (LBS)	NET WEIGHT (tons)	MANIFEST NO.	MATERIAL TYPE
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	67500	19.80	50	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	65560	18.83	27	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	64560	18.74	52	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	70040	21.48	18	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	72540	22.73	40	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	60220	16.57	3	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	71320	22.12	28	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	59940	15.90	2	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	68640	20.25	23	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	70680	21.27	26	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	74980	23.42	39	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	62880	17.37	51	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	61180	16.54	5	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	67440	19.67	19	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	68000	19.95	29	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	73800	22.85	41	Non-Haz Soil
11/26/02			Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	69420	20.66	53	Non-Haz Soil
11/27/02	725	745	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	56080	15.56	62	Non-Haz Soil
11/27/02	725	746	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	68700	20.27	63	Non-Haz Soil
11/27/02	725	748	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	73480	22.69	64	Non-Haz Soil
11/27/02	725	750	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	67060	19.50	65	Non-Haz Soil
11/27/02	725	753	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	71260	23.43	66	Non-Haz Soil
11/27/02	725	758	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	72220	22.19	67	Non-Haz Soil
11/27/02	725	800	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	71100	21.62	68	Non-Haz Soil
11/27/02	725	803	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	69980	21.17	69	Non-Haz Soil
11/27/02	725	812	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	71240	21.67	70	Non-Haz Soil
11/27/02	725	815	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	74760	23.41	71	Non-Haz Soil
11/27/02	725	817	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	74240	23.07	72	Non-Haz Soil
11/27/02	725	820	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	69080	20.19	73	Non-Haz Soil
11/27/02	725	826	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	71940	21.90	74	Non-Haz Soil
11/27/02	725	840	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	28360	70820	21.23	75	Non-Haz Soil
11/27/02	915	925	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	62000	18.52	76	Non-Haz Soil
11/27/02	915	926	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	71860	21.85	77	Non-Haz Soil
11/27/02	915	927	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	68800	20.35	78	Non-Haz Soil
11/27/02	915	930	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	71580	21.76	79	Non-Haz Soil
11/27/02	915	932	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	69980	22.79	80	Non-Haz Soil
11/27/02	915	936	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	72780	22.47	81	Non-Haz Soil
11/27/02	915	954	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	71120	21.63	82	Non-Haz Soil
11/27/02	915	956	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	65780	19.07	83	Non-Haz Soil
11/27/02	915	959	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	67760	19.93	84	Non-Haz Soil
11/27/02	915	1001	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	72740	22.40	85	Non-Haz Soil
11/27/02	915	1005	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	69420	20.66	86	Non-Haz Soil
11/27/02	915	1008	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	68040	19.67	87	Non-Haz Soil
11/27/02	915	1012	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	28360	71560	22.24	88	Non-Haz Soil

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11/27/02	1045	1050	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	60720	17.88	89	Non-Haz Soil
11/27/02	1045	1052	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	71120	21.48	90	Non-Haz Soil
11/27/02	1045	1103	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	71080	21.49	91	Non-Haz Soil
11/27/02	1045	1106	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	72220	22.08	92	Non-Haz Soil
11/27/02	1045	1107	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	72520	24.06	93	Non-Haz Soil
11/27/02	1045	1112	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	72520	22.34	94	Non-Haz Soil
11/27/02	1045	1121	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	71320	21.73	95	Non-Haz Soil
11/27/02	1045	1126	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	70180	21.27	96	Non-Haz Soil
11/27/02	1045	1130	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	68440	20.27	97	Non-Haz Soil
11/27/02	1045	1134	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	71840	21.95	98	Non-Haz Soil
11/27/02	1045	1141	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	63180	17.54	99	Non-Haz Soil
11/27/02	1045	1143	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	60420	15.86	100	Non-Haz Soil
11/27/02	1045	1147	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	28360	66500	19.71	101	Non-Haz Soil
11/27/02	1224	1226	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	68780	20.31	102	Non-Haz Soil
11/27/02	1224	1227	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	63680	19.64	103	Non-Haz Soil
11/27/02	1224	1230	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	65300	18.62	104	Non-Haz Soil
11/27/02	1224	1235	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	55840	15.44	105	Non-Haz Soil
11/27/02	1224	1238	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	65920	19.04	106	Non-Haz Soil
11/27/02	1250	1252	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	67520	19.81	107	Non-Haz Soil
11/27/02	1250	1255	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	67080	19.57	108	Non-Haz Soil
11/27/02	1250	1258	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	63320	17.84	109	Non-Haz Soil
11/27/02	1250	1302	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	66580	19.24	110	Non-Haz Soil
11/27/02	1250	1305	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	28360	65600	19.26	111	Non-Haz Soil
11/27/02	1250	1310	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	60840	16.07	112	Non-Haz Soil
11/27/02	1250	1313	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	64420	18.28	113	Non-Haz Soil
11/27/02	1348	1348	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	65280	18.59	114	Non-Haz Soil
11/27/02	1348	1350	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	66660	19,25	115	Non-Haz Soil
11/27/02	1348	1355	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	65280	18.59	116	Non-Haz Soil
11/27/02	1348	1400	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	66480	19.21	117	Non-Haz Soil
11/27/02	1348	1401	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	56100	15.57	118	Non-Haz Soil
11/27/02	1348	1402	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	69040	20.60	119	Non-Haz Soil
11/27/02	1348	1417	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	69440	20.75	120	Non-Haz Soil
11/27/02	1348	1419	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	67400	19.88	121	Non-Haz Soil
11/27/02	1348	1423	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	64800	18.35	122	Non-Haz Soil
11/27/02	1348	1428	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	28360	65460	19.19	123	Non-Haz Soil
11/27/02	1348	1433	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	67720	19.91	124	Non-Haz Soil
11/27/02	1348	1438	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	66220	19.18	125	Non-Haz Soil
11/27/02	1348	1440	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	61960	16.63	126	Non-Haz Soil
12/02/02	800	802	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	68160	20.03	166	Non-Haz Soil
12/02/02	800	804	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	68200	20.13	167	Non-Haz Soil
12/02/02	800	807	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	70820	21.59	168	Non-Haz Soil
12/02/02	800	809	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	72720	22.28	169	Non-Haz Soil
12/02/02	800	810	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	72020	21.98	170	Non-Haz Soil
12/02/02	800	811	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	74520	25.06	171	Non-Haz Soil

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12/02/02	800	814	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	67720	19.51	172	Non-Haz Soil
12/02/02	800	820	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	79880	25.89	173	Non-Haz Soil
12/02/02	800	826	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	75560	23.71	174	Non-Haz Soil
12/02/02	800	838	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	77420	24.78	175	Non-Haz Soil
12/02/02	800	845	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	74940	23.55	176	Non-Haz Soil
12/02/02	920	922	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	70860	21.38	177	Non-Haz Soil
12/02/02	920	924	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	73020	22.48	178	Non-Haz Soil
12/02/02	920	926	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	74800	25.20	179	Non-Haz Soil
12/02/02	920	929	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	75980	23.91	180	Non-Haz Soil
12/02/02	920	932	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	72840	22.45	181	Non-Haz Soil
12/02/02	920	935	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	69720	21.04	182	Non-Haz Soil
12/02/02	920	939	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	66300	18.80	183	Non-Haz Soil
12/02/02	920	951	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	72760	22.31	184	Non-Haz Soil
12/02/02	920	954	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	71860	22.00	185	Non-Haz Soil
12/02/02	920	957	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	72740	22.32	186	Non-Haz Soil
12/02/02	920	1000	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	57920	16.48	187	Non-Haz Soil
12/02/02	920	1003	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	73240	22.70	188	Non-Haz Soil
12/02/02	920	1028	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	67160	19.63	189	Non-Haz Soil
12/02/02	1040	1041	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	68880	20.41	190	Non-Haz Soil
12/02/02	1040	1050	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	74020	23.04	191	Non-Haz Soil
12/02/02	1040	1052	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	66080	19.96	192	Non-Haz Soil
12/02/02	1040	1054	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	72060	23.83	193	Non-Haz Soil
12/02/02	1040	1056	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	67460	19.91	194	Non-Haz Soil
12/02/02	1040	1058	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	65320	18.61	195	Non-Haz Soil
12/02/02	1040	1101	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	68840	20.07	196	Non-Haz Soil
12/02/02	1040	1117	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	70380	21.14	197	Non-Haz Soil
12/02/02	1040	1120	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	64500	18.18	198	Non-Haz Soil
12/02/02	1040	1122	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	68180	20.16	199	Non-Haz Soil
12/02/02	1040	1124	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	67620	19.89	200	Non-Haz Soil
12/02/02	1040	1127	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	56660	15.85	201	Non-Haz Soil
12/02/02	1040	1148	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	77220	24.66	202	Non-Haz Soil
12/02/02	1200	1202	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	71160	21.55	203	Non-Haz Soil
12/02/02	1200	1209	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	74780	23.31	204	Non-Haz Soil
12/02/02	1200	1212	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	66140	20.87	205	Non-Haz Soil
12/02/02	1200	1216	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	72540	22.30	206	Non-Haz Soil
12/02/02	1200	1218	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	66440	19.40	207	Non-Haz Soil
12/02/02	1200	1220	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	68820	20.36	208	Non-Haz Soil
12/02/02	1200	1227	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	75540	23.42	209	Non-Haz Soil
12/02/02	1200	1237	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	70900	21.40	210	Non-Haz Soil
12/02/02	1200	1239	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	74000	23.08	211	Non-Haz Soil
12/02/02	1200	1242	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	71720	21.93	212	Non-Haz Soil
12/02/02	1200	1244	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	70440	21.15	213	Non-Haz Soil
12/02/02	1200	1247	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	65380	20.21	214	Non-Haz Soil
12/02/02	1200	1306	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	75160	23.63	215	Non-Haz Soil

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Manifest Tracking Summary
SEAD 50/54 Soil Removal
Seneca Army Depot
13 March 2003

DATE	TIME IN	TIME OUT	DESTINATION	AREAS MATERIAL ORIGINATED	HAULER COMPANY NAME	TRUCK ID#	TARE WEIGHT (LBS)	SCALE (LBS)	NET WEIGHT (tons)	MANIFEST NO.	MATERIAL TYPE
12/02/02	1319	1321	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	73400	22.67	216	Non-Haz Soil
12/02/02	1319	1328	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	70840	23.22	217	Non-Haz Soil
12/02/02	1319	1331	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	69800	20.82	218	Non-Haz Soil
12/02/02	1319	1335	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	73720	23.04	219	Non-Haz Soil
12/02/02	1319	1342	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	69800	20.85	220	Non-Haz Soil
12/02/02	1319	1345	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	75680	23.87	221	Non-Haz Soil
12/02/02	1319	1349	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	68000	19.65	222	Non-Haz Soil
12/02/02	1319	1400	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	75600	23.87	223	Non-Haz Soil
12/02/02	1319	1402	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	70560	21.36	224	Non-Haz Soil
12/02/02	1319	1409	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	74580	23.24	225	Non-Haz Soil
12/02/02	1319	1412	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	73820	22.84	226	Non-Haz Soil
12/02/02	1319	1416	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	3-77	24960	65560	20.30	227	Non-Haz Soil
12/02/02	1319	1423	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	74920	23.51	228	Non-Haz Soil
12/03/02	800	803	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	74680	23.27	229	Non-Haz. Soil
12/03/02	800	809	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	75500	23.78	230	Non-Haz. Soil
12/03/02	800	814	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	77-11	28100	70980	21.44	231	Non-Haz. Soil
12/03/02	800	817	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	72740	22.34	232	Non-Haz. Soil
12/03/02	800	820	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	69300	20.73	233	Non-Haz. Soil
12/03/02	800	828	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	67580	19.44	234	Non-Haz. Soil
12/03/02	800	836	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	70780	21.44	235	Non-Haz. Soil
12/03/02	800	841	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	71820	21.83	236	Non-Haz. Soil
12/03/02	800	844	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	70660	21.51	237	Non-Haz. Soil
12/03/02	800	859	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	72740	22.83	238	Non-Haz. Soil
12/03/02	800	900	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	74240	23.19	239	Non-Haz. Soil
12/03/02	800	909	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	69420	20.66	240	Non-Haz. Soil
12/03/02	800	943	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	68820	22.21	241	Non-Haz. Soil
12/03/02	950	952	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	77-11	28100	71320	21.61	242	Non-Haz. Soil
12/03/02	950	955	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	71780	21.86	243	Non-Haz. Soil
12/03/02	950	957	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	71240	21.55	244	Non-Haz. Soil
12/03/02	950	959	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	70240	21.17	245	Non-Haz. Soil
12/03/02	950	1008	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	71700	21.93	246	Non-Haz. Soil
12/03/02	950	1010	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	69020	20.69	247	Non-Haz. Soil
12/03/02	950	1012	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	69460	20.65	248	Non-Haz. Soil
12/03/02	950	1030	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	72360	22.25	249	Non-Haz. Soil
12/03/02	950	1038	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	69080	20.49	250	Non-Haz. Soil
12/03/02	950	1041	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	68720	20.82	251	Non-Haz. Soil
12/03/02	950	1046	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	66180	18.74	252	Non-Haz. Soil
12/03/02	1123	1125	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	77-11	28100	71100	21.5	253	Non-Haz. Soil
12/03/02	1123	1129	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	71080	21.51	254	Non-Haz. Soil
12/03/02	1123	1134	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	71800	21.83	255	Non-Haz. Soil
12/03/02	1123	1138	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	72140	21.07	256	Non-Haz. Soil
12/03/02	1123	1143	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	72200	22.02	257	Non-Haz. Soil
12/03/02	1143	1148	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	77-3	24960	64100	19.57	258	Non-Haz. Soil
12/03/02	1143	1200	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	67340	19.85	259	Non-Haz. Soil

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DATE	TIME IN	TIME OUT	DESTINATION	AREAS MATERIAL ORIGINATED	HAULER COMPANY NAME	TRUCK ID#	TARE WEIGHT (LBS)	SCALE (LBS)	NET WEIGHT (tons)	MANIFEST NO.	MATERIAL TYPE
12/03/02	1244	1244	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	75500	23.83	260	Non-Haz. Soil
12/03/02	1143	1211	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	70580	23.09	261	Non-Haz. Soil
12/03/02	1143	1216	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	69060	20.6	262	Non-Haz. Soil
12/03/02	1143	1218	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	68200	20.05	263	Non-Haz. Soil
12/03/02	1143	1220	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	69420	21.17	264	Non-Haz. Soil
12/03/02	1253	1255	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	77-11	28100	69620	20.76	265	Non-Haz. Soil
12/03/02	1253	1302	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	69620	20.78	266	Non-Haz. Soil
12/03/02	1253	1304	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	70220	21.16	267	Non-Haz. Soil
12/03/02	1253	1307	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	67940	19.9	268	Non-Haz. Soil
12/03/02	1253	1310	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	71760	21.8	269	Non-Haz. Soil
12/03/02	1253	1330	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	67240	19.8	270	Non-Haz. Soil
12/03/02	1253	1332	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	77-3	24960	61160	18.1	271	Non-Haz. Soil
12/03/02	1253	1335	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	66180	19.17	272	Non-Haz. Soil
12/03/02	1253	1337	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	68940	20.54	273	Non-Haz. Soil
12/03/02	1253	1340	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	69060	22.33	274	Non-Haz. Soil
12/03/02	1253	1344	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	71040	21.47	275	Non-Haz. Soil
12/03/02	1253	1350	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	70840	21.88	276	Non-Haz. Soil
12/03/02	1416	1418	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	77-11	28100	69560	20.73	277	Non-Haz. Soil
12/03/02	1416	1420	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	68240	20.09	278	Non-Haz. Soil
12/03/02	1416	1432	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	72020	21.94	279	Non-Haz. Soil
12/03/02	1416	1434	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	65400	18.75	280	Non-Haz. Soil
12/03/02	1416	1447	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-7	28160	72580	22.21	281	Non-Haz. Soil
12/03/02	1416	1508	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	69520	20.84	282	Non-Haz. Soil
12/03/02	1416	1511	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	77-3	24960	62180	18.61	283	Non-Haz. Soil
12/04/02	8:00	8:04	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	27880	69400	20.76	284	Non-Haz. Soil
12/04/02	8:00	8:06	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	77-11	28000	64000	18	285	Non-Haz. Soil
12/04/02	8:00	8:08	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	28700	65640	18.47	286	Non-Haz. Soil
12/04/02	8:00	8:11	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	64780	18.31	287	Non-Haz. Soil
12/04/02	8:00	8:13	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	61580	16.84	288	Non-Haz. Soil
12/04/02	8:00	8:16	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	28000	72420	22.21	289	Non-Haz. Soil
12/04/02	8:00	8:18	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27940	70300	21.18	290	Non-Haz. Soil
12/04/02	8:00	8:22	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27660	73300	22.82	291	Non-Haz. Soil
12/04/02	8:00	8:24	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	68500	20.2	292	Non-Haz. Soil
12/04/02	8:00	8:26	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28200	72000	21.9	293	Non-Haz. Soil
12/04/02	8:00	8:28	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	28160	72760	22.3	294	Non-Haz. Soil
12/04/02	8:00	8:30	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27680	69500	20.91	295	Non-Haz. Soil
12/04/02	8:00	8:57	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28060	60200	16.07	296	Non-Haz. Soil
12/04/02	10:35	10:35	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28160	67380	19.61	297	Asbestos-Spec.
12/04/02	10:35	10:40	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	75540	23.85	298	Non-Haz. Soil
12/04/02	10:35	10:45	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	74160	24.88	299	Non-Haz. Soil
12/04/02	10:35	11:20	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28060	71980	21.96	300	Non-Haz. Soil
12/04/02	10:35	11:23	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27880	71960	22.04	301	Non-Haz. Soil
12/04/02	10:35	11:26	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27940	73960	23.01	302	Non-Haz. Soil
12/04/02	10:35	11:30	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	77-11	28040	73780	22.87	303	Non-Haz. Soil

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12/04/02	10:35	11:36	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28360	72620	22.13	304	Non-Haz. Soil
12/04/02	10:35	11:39	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27780	71660	21.94	305	Non-Haz. Soil
12/04/02	10:35	11:45	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	28600	74360	22.88	306	Non-Haz. Soil
12/04/02	10:35	11:51	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	27840	70140	21.15	307	Non-Haz. Soil
12/04/02	10:35	11:53	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28760	68840	20.04	308	Non-Haz. Soil
12/04/02	10:35	12:03	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27660	61640	16.99	309	Asbestos-Spec.
12/04/02	12:15	12:39	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27800	76300	24.25	310	Non-Haz. Soil
12/04/02	12:15	12:41	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24420	75060	25.32	311	Non-Haz. Soil
12/04/02	12:15	12:53	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	77-11	28100	72140	22.02	312	Non-Haz. Soil
12/04/02	12:15	13:02	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	70800	21.35	313	Non-Haz. Soil
12/04/02	12:15	13:05	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	70740	21.83	314	Non-Haz. Soil
12/04/02	12:15	13:08	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	27840	72600	22.38	315	Non-Haz. Soil
12/04/02	12:15	13:11	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	69600	20.85	316	Non-Haz. Soil
12/04/02	12:15	13:14	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	71200	21.67	317	Non-Haz. Soil
12/04/02	12:15	13:20	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	70700	21.27	318	Non-Haz. Soil
12/04/02	12:15	13:28	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	69200	20.63	319	Non-Haz. Soil
12/04/02	12:15	13:34	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	64560	17.93	320	Non-Haz. Soil
12/04/02	12:15	13:39	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	70940	21.4	321	Non-Haz. Soil
12/04/02	12:15	13:44	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	68580	20.47	322	Non-Haz. Soil
12/04/02	14:10	14:14	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	71780	23.69	323	Non-Haz. Soil
12/04/02	14:10	14:17	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	70280	21.22	324	Non-Haz. Soil
12/04/02	14:10	14:27	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	11-77	28100	72820	22.36	325	Non-Haz. Soil
12/04/02	14:10	14:37	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	75140	23.52	326	Non-Haz. Soil
12/04/02	14:10	14:42	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	70420	21.26	327	Non-Haz. Soil
12/04/02	14:10	14:48	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	74700	23.42	328	Non-Haz. Soil
12/04/02	14:10	14:51	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	76500	24.71	329	Non-Haz. Soil
12/04/02	14:10	14:54	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	77020	24.43	330	Non-Haz. Soil
12/04/02	14:10	14:57	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	71320	21.63	331	Non-Haz. Soil
12/04/02	14:10	15:01	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	79940	26	332	Non-Haz. Soil
12/04/02	14:10	15:04	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	71860	21.58	333	Non-Haz. Soil
12/04/02	14:10	15:08	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	80280	26.07	334	Non-Haz. Soil
12/04/02	14:10	15:10	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	80480	26.42	335	Non-Haz. Soil
12/05/02	8:00	8:11	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	68140	20	336	Non-Haz. Soil
12/05/02	8:00	8:12	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	70160	21.03	337	Non-Haz. Soil
12/05/02	8:00	8:13	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	69440	20.75	338	Non-Haz. Soil
12/05/02	8:00	8:16	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	67200	19.57	339	Non-Haz. Soil
12/05/02	8:00	8:17	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	77-11	28100	66440	19.17	340	Non-Haz. Soil
12/05/02	8:00	8:19	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	70600	23.1	341	Non-Haz. Soil
12/05/02	8:00	8:22	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	67440	19.8	342	Non-Haz. Soil
12/05/02	8:00	8:24	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	66360	19.1	343	Non-Haz. Soil
12/05/02	8:00	8:25	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	62160	16.73	344	Non-Haz. Soil
12/05/02	8:00	8:27	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	74060	23.21	345	Non-Haz. Soil
12/05/02	8:00	8:28	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	69960	21.03	346	Non-Haz. Soil
12/05/02	8:00	8:30	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	27860	72960	22.55	347	Non-Haz. Soil

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12/05/02	8:00	8:32	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	70080	21.5	348	Non-Haz. Soil
12/05/02	9:20	9:33	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	68420	20.14	349	Non-Haz. Soil
12/05/02	9:20	9:35	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	71440	21.69	350	Non-Haz. Soil
12/05/02	9:20	9:36	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	69720	20.81	351	Non-Haz. Soil
12/05/02	9:20	9:40	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24420	71340	23.54	352	Non-Haz. Soil
12/05/02	9:20	9:42	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	28600	70620	21.01	353	Non-Haz. Soil
12/05/02	9:20	9:44	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	1177	28040	69880	20.92	354	Non-Haz. Soil
12/05/02	9:20	9:45	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27800	72220	22.21	355	Non-Haz. Soil
12/05/02	9:20	9:47	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28060	66940	19.44	356	Non-Haz. Soil
12/05/02	9:20	9:50	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27880	71880	22	357	Non-Haz. Soil
12/05/02	9:20	9:51	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28760	65740	18.49	358	Non-Haz. Soil
12/05/02	9:20	9:53	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27660	69660	21	359	Non-Haz. Soil
12/05/02	9:20	9:55	Seneca Meadows Landfill	50/54	Riccelli Enterprises	97	28140	73420	22.64	360	Non-Haz. Soil
12/05/02	9:20	9:57	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27780	73720	22.97	361	Non-Haz. Soil
12/05/02	10:28	10:51	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	75660	23.76	362	Non-Haz. Soil
12/05/02	10:28	10:53	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	73380	22.66	363	Non-Haz. Soil
12/05/02	10:28	11:00	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	76540	24.22	364	Non-Haz. Soil
12/05/02	10:28	11:03	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	75460	25.53	365	Non-Haz. Soil
12/05/02	10:28	11:10	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	74820	23.44	366	Non-Haz. Soil
12/05/02	10:28	11:12	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	1177	28100	70760	21.33	367	Non-Haz. Soil
12/05/02	10:28	11:14	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	69620	20.73	368	Non-Haz. Soil
12/05/02	10:28	11:16	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	71840	22	369	Non-Haz. Soil
12/05/02	10:28	11:22	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	76560	24.74	370	Non-Haz. Soil
12/05/02	10:28	11:24	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	69000	20.15	371	Non-Haz. Soil
12/05/02	10:28	11:39	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	72880	22.62	372	Non-Haz. Soil
12/05/02	10:28	11:41	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	73820	22.96	373	Non-Haz. Soil
12/05/02	12:05	12:15	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	72140	22	374	Non-Haz. Soil
12/05/02	12:05	12:17	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	71400	21.65	375	Non-Haz. Soil
12/05/02	12:05	12:24	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	66640	19.29	376	Non-Haz. Soil
12/05/02	12:05	12:26	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	71260	23.43	377	Non-Haz. Soil
12/05/02	12:05	12:34	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	69760	20.91	378	Non-Haz. Soil
12/05/02	12:05	12:36	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	1177	28100	68640	20.27	379	Non-Haz. Soil
12/05/02	12:05	12:38	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	24-77	28160	72400	22.12	380	Non-Haz. Soil
12/05/02	12:05	12:40	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	71720	21.94	381	Non-Haz. Soil
12/05/02	12:05	12:44	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	70080	21.5	382	Non-Haz. Soil
12/05/02	12:05	12:47	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	70840	21.07	383	Non-Haz. Soil
12/05/02	12:05	12:51	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	69400	20.75	384	Non-Haz. Soil
12/05/02	12:05	12:53	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	75320	23.84	385	Non-Haz. Soil
12/05/02	13:25	13:47	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	74460	23.16	386	Non-Haz. Soil
12/05/02	13:25	13:49	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	70940	23.27	387	Non-Haz. Soil
12/05/02	13:25	13:53	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	68380	20.16	388	Non-Haz. Soil
12/05/02	13:25	13:55	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	70980	21.44	389	Non-Haz. Soil
12/05/02	13:25	13:58	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	1177	28100	70660	21.28	390	Non-Haz. Soil
12/05/02	13:25	14:02	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	2477	28160	71820	21.83	391	Non-Haz. Soil

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Manifest Tracking Summary
SEAD 50/54 Soil Removal
Seneca Army Depot
13 March 2003

DATE	TIME IN	TIME OUT	DESTINATION	AREAS MATERIAL ORIGINATED	HAULER COMPANY NAME	TRUCK ID#	TARE WEIGHT (LBS)	SCALE (LBS)	NET WEIGHT (tons)	MANIFEST NO.	MATERIAL TYPE
12/05/02	13:25	14:08	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	74980	23.52	392	Non-Haz. Soil
12/05/02	13:25	14:10	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	2577	27840	74440	23.3	393	Non-Haz. Soil
12/05/02	13:25	14:12	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	73380	23.15	394	Non-Haz. Soil
12/05/02	13:25	14:14	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	75160	23.63	395	Non-Haz. Soil
12/05/02	13:25	14:15	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	68860	20.61	396	Non-Haz. Soil
12/05/02	13:25	14:16	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	70320	20.81	397	Non-Haz. Soil
12/05/02	14:42	15:03	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	71860	21.86	398	Non-Haz. Soil
12/05/02	14:42	15:12	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	74240	24.92	399	Non-Haz. Soil
12/05/02	14:42	15:13	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	73740	22.84	400	Non-Haz. Soil
12/05/02	14:42	15:17	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	1177	28100	70460	21.18	401	Non-Haz. Soil
12/05/02	14:42	15:19	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	70540	21.22	402	Non-Haz. Soil
12/06/02	8:00	8:11	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	68260	20.08	403	Non-Haz. Soil
12/06/02	8:00	8:13	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	1177	28100	75060	23.48	404	Non-Haz. Soil
12/06/02	8:00	8:15	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	65280	20.44	405	Non-Haz. Soil
12/06/02	8:00	8:16	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	70040	21.1	406	Non-Haz. Soil
12/06/02	8:00	8:18	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	68020	19.98	407	Non-Haz. Soil
12/06/02	8:00	8:22	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	72160	22.26	408	Non-Haz. Soil
12/06/02	8:00	8:25	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	66700	19.28	409	Non-Haz. Soil
12/06/02	8:00	8:28	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	74800	23.43	410	Non-Haz. Soil
12/06/02	8:00	8:29	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	61760	16.53	411	Non-Haz. Soil
12/06/02	8:00	8:31	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	68060	20.49	412	Non-Haz. Soil
12/06/02	9:38	9:48	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	68820	20.36	413	Non-Haz. Soil
12/06/02	9:38	9:51	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	71220	21.69	414	Non-Haz. Soil
12/06/02	9:38	9:53	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	1177	28100	69340	20.62	415	Non-Haz. Soil
12/06/02	9:38	9:54	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	69760	21.06	416	Non-Haz. Soil
12/06/02	9:38	9:56	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	66320	20.96	417	Non-Haz. Soil
12/06/02	9:38	9:58	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	69980	20.96	418	Non-Haz. Soil
12/06/02	9:38	10:00	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	73420	22.74	419	Non-Haz. Soil
12/06/02	9:38	10:02	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	72520	22.19	420	Non-Haz. Soil
12/06/02	9:38	10:08	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	73620	23.27	421	Non-Haz. Soil
12/06/02	9:38	10:10	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	71420	21.36	422	Non-Haz. Soil
12/06/02	10:08	10:25	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	73320	22.71	423	Non-Haz. Soil
12/06/02	10:55	11:11	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	73600	22.75	424	Non-Haz. Soil
12/06/02	11:00	11:13	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	69940	21.15	425	Non-Haz. Soil
12/06/02	11:05	11:19	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	67080	19.62	426	Non-Haz. Soil
12/06/02	11:05	11:22	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	1177	28100	70440	21.17	427	Non-Haz. Soil
12/06/02	11:05	11:24	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	71220	23.41	428	Non-Haz. Soil
12/06/02	11:05	11:26	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	67940	19.94	429	Non-Haz. Soil
12/06/02	11:05	11:29	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	79060	25.99	430	Non-Haz. Soil
12/06/02	11:05	11:35	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	73940	23	431	Non-Haz. Soil
12/06/02	11:05	11:39	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	73300	22.7	432	Non-Haz. Soil
12/06/02	11:05	11:41	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	73500	22.68	433	Non-Haz. Soil
12/06/02	11:05	11:49	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	74840	23.07	434	Non-Haz. Soil
12/06/02	12:15	12:05	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	73420	22.89	435	Non-Haz. Soil

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Manifest Tracking Summary
SEAD 50/54 Soil Removal
Seneca Army Depot
13 March 2003

DATE	TIME IN	TIME OUT	DESTINATION	AREAS MATERIAL ORIGINATED	HAULER COMPANY NAME	TRUCK ID#	TARE WEIGHT (LBS)	SCALE (LBS)	NET WEIGHT (tons)	MANIFEST NO.	MATERIAL TYPE
12/06/02	12:15	12:27	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	74100	23	436	Non-Haz. Soil
12/06/02	12:15	12:31	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	72880	22.52	437	Non-Haz. Soil
12/06/02	12:15	12:40	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	1177	28100	69940	20.92	438	Non-Haz. Soil
12/06/02	12:15	12:49	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	71320	23.46	439	Non-Haz. Soil
12/06/02	12:15	12:49	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	72260	22.1	440	Non-Haz. Soil
12/06/02	12:15	12:51	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	72820	22.87	441	Non-Haz. Soil
12/06/02	12:15	12:54	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	76260	24.18	442	Non-Haz. Soil
12/06/02	12:15	12:56	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	72320	22.19	443	Non-Haz. Soil
12/06/02	12:15	13:00	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	76220	24.04	444	Non-Haz. Soil
12/06/02	12:15	13:14	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	70120	20.71	445	Non-Haz. Soil
12/06/02	13:30	13:49	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	72820	22.59	446	Non-Haz. Soil
12/06/02	13:30	14:05	Seneca Meadows Landfill	50/54	Riccelli Enterprises	76	28100	72440	22.17	447	Non-Haz. Soil
12/06/02	13:30	14:07	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	25-77	27840	72100	22.13	448	Non-Haz. Soil
12/06/02	13:30	14:12	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	1177	28100	67060	19.48	449	Non-Haz. Soil
12/06/02	13:30	14:15	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	14-77	24400	72240	23.92	450	Non-Haz. Soil
12/06/02	13:30	14:18	Seneca Meadows Landfill	50/54	Seneca Pipe and Paving	17-77	28060	74400	23.17	451	Non-Haz. Soil
12/06/02	13:30	14:22	Seneca Meadows Landfill	50/54	Riccelli Enterprises	71	27900	74660	23.38	452	Non-Haz. Soil
12/06/02	13:30	14:25	Seneca Meadows Landfill	50/54	Riccelli Enterprises	79	27080	74100	23.51	453	Non-Haz. Soil
12/06/02	13:30	14:26	Seneca Meadows Landfill	50/54	Riccelli Enterprises	95	27940	75180	23.62	454	Non-Haz. Soil
12/06/02	13:30	14:30	Seneca Meadows Landfill	50/54	Riccelli Enterprises	45	28140	75680	23.77	455	Non-Haz. Soil
12/06/02	13:30	14:38	Seneca Meadows Landfill	50/54	Riccelli Enterprises	61	28700	68360	19.83	456	Non-Haz. Soil
12/06/02	13:30	15:03	Seneca Meadows Landfill	50/54	Riccelli Enterprises	74	27640	71480	21.92	457	Non-Haz. Soil
12/09/02	8:00	8:18	Seneca Meadows Landfill	50/54 & 67	Riccelli Enterprises	45	28140	74660	23.26	458	Non-Haz. Soil
12/09/02	8:00	8:21	Seneca Meadows Landfill	50/54 & 67	Riccelli Enterprises	74	27640	76860	24.61	459	Non-Haz. Soil
12/09/02	8:00	8:46	Seneca Meadows Landfill	50/54 & 67	Seneca Pipe and Paving	25-77	27840	76880	24.52	460	Non-Haz. Soil
12/09/02	8:00	8:35	Seneca Meadows Landfill	50/54 & 67	Seneca Pipe and Paving	14-77	24400	75720	25.66	461	Non-Haz. Soil
12/09/02	8:00	8:41	Seneca Meadows Landfill	50/54 & 67	Seneca Pipe and Paving	24-77	28160	74760	23.3	462	Non-Haz. Soil
12/09/02	8:00	8:46	Seneca Meadows Landfill	50/54 & 67	Riccelli Enterprises	97	27860	75260	23.7	463	Non-Haz. Soil
12/09/02	8:00	8:56	Seneca Meadows Landfill	50/54 & 67	Seneca Pipe and Paving	1177	28100	66400	19.18	464	Non-Haz. Soil
12/09/02	9:45	9:53	Seneca Meadows Landfill	50/54 & 67	Seneca Pipe and Paving	14-77	24400	62980	19.29	465	Non-Haz. Soil
12/09/02	9:45	9:57	Seneca Meadows Landfill	50/54 & 67	Riccelli Enterprises	45	28140	65800	18.83	466	Non-Haz. Soil
12/09/02	9:45	10:03	Seneca Meadows Landfill	50/54 & 67	Seneca Pipe and Paving	24-77	28160	72060	21.95	467	Non-Haz. Soil
01/06/03	8:00	8:28	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	74	65780	38140	19.07	694	Non-Haz. Soil
01/06/03	8:00	8:38	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	97	71640	43780	21.89	695	Non-Haz. Soil
01/06/03	8:00	8:40	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	76	71800	43700	21.85	696	Non-Haz. Soil
01/06/03	8:00	8:41	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	95	67740	39800	19.9	697	Non-Haz. Soil
01/06/03	8:00	8:46	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	71300	44340	22.17	698	Non-Haz. Soil
01/06/03	8:00	8:50	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	71240	43140	21.57	699	Non-Haz. Soil
01/06/03	8:00	8:51	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	17-77	73140	45080	22.54	700	Non-Haz. Soil
01/06/03	8:00	8:55	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	24-77	68380	40220	20.11	701	Non-Haz. Soil
01/06/03	8:00	8:56	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	14-77	72960	48560	24.28	702	Non-Haz. Soil
01/06/03	8:00	8:58	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	79	72420	45340	22.67	703	Non-Haz. Soil
01/06/03	8:00	9:05	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	71	76820	48920	24.46	704	Non-Haz. Soil
01/06/03	9:50	10:05	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	74	69500	41860	20.93	705	Non-Haz. Soil

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01/06/03	9:50	10:08	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	97	71680	43820	21.91	706	Non-Haz. Soil
01/06/03	9:50	10:12	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	76	74980	46880	23.44	707	Non-Haz. Soil
01/06/03	9:50	10:18	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	95	71620	43680	21.84	708	Non-Haz. Soil
01/06/03	9:50	10:35	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	75420	47320	23.66	709	Non-Haz. Soil
01/06/03	9:50	10:38	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1777	76020	47960	23.98	710	Non-Haz. Soil
01/06/03	9:50	10:40	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	77540	49380	24.69	711	Non-Haz. Soil
01/06/03	9:50	10:44	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1477	79600	55200	27.6	712	Non-Haz. Soil
01/06/03	9:50	10:47	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	74940	47980	23.99	713	Non-Haz. Soil
01/06/03	9:50	10:51	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	71	77540	49640	24.82	714	Non-Haz. Soil
01/06/03	9:50	10:53	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	79	80960	53880	26.94	715	Non-Haz. Soil
01/06/03	11:27	11:44	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	74	73940	46300	23.15	716	Non-Haz. Soil
01/06/03	11:27	11:47	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	97	80200	52340	26.17	717	Non-Haz. Soil
01/06/03	11:27	11:59	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	76	79400	57300	25.65	718	Non-Haz. Soil
01/06/03	11:27	12:01	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	77760	49660	24.83	719	Non-Haz. Soil
01/06/03	11:27	12:05	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1777	73340	45280	22.64	720	Non-Haz. Soil
01/06/03	11:27	12:07	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	75780	47620	23.81	721	Non-Haz. Soil
01/06/03	11:27	12:10	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	95	74340	46400	23.2	722	Non-Haz. Soil
01/06/03	11:27	12:12	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1477	76860	52460	26.23	723	Non-Haz. Soil
01/06/03	11:27	12:17	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	76300	49340	24.67	724	Non-Haz. Soil
01/06/03	11:27	12:18	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	71	78280	50380	25.19	725	Non-Haz. Soil
01/06/03	11:27	12:23	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	79	77880	50800	25.4	726	Non-Haz. Soil
01/06/03	12:50	13:00	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	74	69180	41540	20.77	727	Non-Haz. Soil
01/06/03	12:50	13:01	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	97	79020	57160	25.58	728	Non-Haz. Soil
01/06/03	12:50	13:15	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	76	72720	44620	22.31	729	Non-Haz. Soil
01/06/03	12:50	13:25	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	69640	41540	20.77	730	Non-Haz. Soil
01/06/03	12:50	13:28	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1777	70320	72260	21.13	731	Non-Haz. Soil
01/06/03	12:50	13:30	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	72900	44740	22.37	732	Non-Haz. Soil
01/06/03	12:50	13:32	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	95	68520	40580	20.29	733	Non-Haz. Soil
01/06/03	12:50	13:37	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1477	66020	41620	20.81	734	Non-Haz. Soil
01/06/03	12:50	13:38	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	71	69200	41300	20.65	735	Non-Haz. Soil
01/06/03	12:50	13:40	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	79	72000	45000	22.5	736	Non-Haz. Soil
01/06/03	12:50	13:46	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	lost	lost	18.35	7.37	Non-Haz. Soil
01/06/03	14:00	14:14	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	74	66180	38540	19.27	738	Non-Haz. Soil
01/06/03	14:00	14:18	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	97	71800	43940	21.97	739	Non-Haz. Soil
01/06/03	14:00	14:32	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	76	70200	42100	21.05	740	Non-Haz. Soil
01/06/03	14:00	14:50	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1777	67620	39560	19.78	741	Non-Haz. Soil
01/06/03	14:00	14:52	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	68260	40100	20.05	742	Non-Haz. Soil
01/06/03	14:00	14:55	Seneca Meadows Landfill	50/54-Redigs	Riccellli Enterprises	95	67800	39860	19.93	743	Non-Haz. Soil
01/06/03	14:00	14:57	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1477	64960	24400	20.28	744	Non-Haz. Soil
01/06/03	14:00	15:07	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	66440	38340	19.17	745	Non-Haz. Soil
01/07/03	8:11	8:18	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	64080	35980	17.99	746	Non-Haz. Soil
01/07/03	8:11	8:21	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1477	68080	43680	21.84	747	Non-Haz. Soil
01/07/03	8:11	8:25	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	71880	43720	21.86	748	Non-Haz. Soil
01/07/03	8:11	8:30	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	69280	41640	20.82	749	Non-Haz. Soil

* Per Load (Tons) column is based on the weights from the Seneca Meadows Landfill scale

Manifest Tracking Summary
SEAD 50/54 Soil Removal
Seneca Army Depot
13 March 2003

DATE	TIME IN	TIME OUT	DESTINATION	AREAS MATERIAL ORIGINATED	HAULER COMPANY NAME	TRUCK ID#	TARE WEIGHT (LBS)	SCALE (LBS)	NET WEIGHT (tons)	MANIFEST NO.	MATERIAL TYPE
01/07/03	8:11	8:32	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	65220	37360	18.68	750	Non-Haz. Soil
01/07/03	8:11	8:33	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	95	66120	38180	19.09	751	Non-Haz. Soil
01/07/03	8:11	8:36	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	56260	31300	15.65	752	Non-Haz. Soil
01/07/03	8:11	8:51	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	68960	42000	21	753	Non-Haz. Soil
01/07/03	9:50	9:57	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	72440	44340	22.17	754	Non-Haz. Soil
01/07/03	9:50	9:58	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1477	69960	45560	22.78	755	Non-Haz. Soil
01/07/03	9:50	10:00	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	71520	43880	21.94	756	Non-Haz. Soil
01/07/03	9:50	10:03	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	70900	43040	21.52	757	Non-Haz. Soil
01/07/03	9:50	10:07	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	72940	44780	22.39	758	Non-Haz. Soil
01/07/03	9:50	10:09	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	95	77680	49740	24.87	759	Non-Haz. Soil
01/07/03	9:50	10:12	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	58960	34000	17	760	Non-Haz. Soil
01/07/03	9:50	10:30	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	72700	44800	22.4	761	Non-Haz. Soil
01/07/03	9:50	10:32	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	73900	46940	23.47	762	Non-Haz. Soil
01/07/03	9:50	10:38	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	79	75780	48700	24.35	763	Non-Haz. Soil
01/07/03	11:10	11:18	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	72960	44860	22.43	764	Non-Haz. Soil
01/07/03	11:10	11:26	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1477	72380	47980	23.99	765	Non-Haz. Soil
01/07/03	11:10	11:33	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	78620	50460	25.23	766	Non-Haz. Soil
01/07/03	11:10	11:42	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	75160	47300	23.65	767	Non-Haz. Soil
01/07/03	11:10	11:38	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	71860	44220	22.11	768	Non-Haz. Soil
01/07/03	11:10	11:47	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	57820	32850	16.43	769	Non-Haz. Soil
01/07/03	11:10	12:02	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	95	78340	50400	25.2	770	Non-Haz. Soil
01/07/03	11:10	12:05	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	76380	48480	24.24	771	Non-Haz. Soil
01/07/03	11:10	12:08	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	797	74940	47860	23.93	772	Non-Haz. Soil
01/07/03	11:10	12:12	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	68780	41820	20.91	773	Non-Haz. Soil
01/07/03	13:00	13:09	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	76600	48500	24.25	774	Non-Haz. Soil
01/07/03	13:00	13:11	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1477	76540	52140	26.07	775	Non-Haz. Soil
01/07/03	13:00	13:14	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	75960	47800	23.9	776	Non-Haz. Soil
01/07/03	13:00	13:17	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	58640	33680	16.84	777	Non-Haz. Soil
01/07/03	13:00	13:22	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	73340	45700	22.85	778	Non-Haz. Soil
01/07/03	13:00	13:30	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	78240	50380	25.19	779	Non-Haz. Soil
01/07/03	13:00	13:32	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	72840	44940	22.47	780	Non-Haz. Soil
01/07/03	13:00	13:33	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	79	76560	49480	24.74	781	Non-Haz. Soil
01/07/03	13:00	13:35	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	95	75220	47280	23.64	782	Non-Haz. Soil
01/07/03	13:00	13:52	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	69280	42320	21.16	783	Non-Haz. Soil
01/08/03	8:00	8:01	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	76680	48580	24.29	784	Non-Haz. Soil
01/08/03	8:00	8:03	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	75840	47680	23.84	785	Non-Haz. Soil
01/08/03	8:00	8:10	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	73580	46620	23.31	786	Non-Haz. Soil
01/08/03	8:00	8:12	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	74000	46360	23.18	787	Non-Haz. Soil
01/08/03	8:00	8:16	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	45	77500	49360	24.68	788	Non-Haz. Soil
01/08/03	8:00	8:20	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	73440	45580	22.79	790	Non-Haz. Soil
01/08/03	8:00	8:23	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	71	76080	48180	24.09	791	Non-Haz. Soil
01/08/03	8:00	8:26	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	95	72400	44460	22.23	792	Non-Haz. Soil
01/08/03	8:00	8:33	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	79	74880	47800	23.9	792	Non-Haz. Soil
01/08/03	10:10	10:12	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	60300	35340	17.67	794	Non-Haz. Soil

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Manifest Tracking Summary
SEAD 50/54 Soil Removal
Seneca Army Depot
13 March 2003

DATE	TIME IN	TIME OUT	DESTINATION	AREAS MATERIAL ORIGINATED	HAULER COMPANY NAME	TRUCK ID#	TARE WEIGHT (LBS)	SCALE (LBS)	NET WEIGHT (tons)	MANIFEST NO.	MATERIAL TYPE
01/08/03	10:10	10:13	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	71080	42980	21.49	795	Non-Haz. Soil
01/08/03	10:10	10:14	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	70540	42380	21.19	796	Non-Haz. Soil
01/08/03	10:10	10:17	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	68340	41380	20.69	797	Non-Haz. Soil
01/08/03	10:10	10:21	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	72840	45200	22.6	798	Non-Haz. Soil
01/08/03	10:10	10:37	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	45	70580	42440	21.22	799	Non-Haz. Soil
01/08/03	10:10	10:39	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	73540	45680	22.84	800	Non-Haz. Soil
01/08/03	10:10	10:43	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	95	70640	42700	21.35	801	Non-Haz. Soil
01/08/03	10:10	10:45	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	69780	41880	20.94	802	Non-Haz. Soil
01/08/03	10:10	10:49	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	62140	37180	18.59	803	Non-Haz. Soil
01/08/03	10:10	10:52	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	79	72840	45760	22.88	804	Non-Haz. Soil
01/08/03	11:53	11:56	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	74920	46820	23.41	805	Non-Haz. Soil
01/08/03	11:53	11:58	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	74380	46220	23.11	806	Non-Haz. Soil
01/08/03	11:53	12:04	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	73700	46740	23.37	807	Non-Haz. Soil
01/08/03	11:53	12:06	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	73340	45700	22.85	808	Non-Haz. Soil
01/08/03	11:53	12:09	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	45	76780	48640	24.32	809	Non-Haz. Soil
01/08/03	11:53	12:12	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	76600	48740	24.37	810	Non-Haz. Soil
01/08/03	11:53	12:16	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	76220	48320	24.16	811	Non-Haz. Soil
01/08/03	11:53	12:20	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	62380	37420	18.71	812	Non-Haz. Soil
01/08/03	11:53	12:23	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	79	78020	50940	25.47	813	Non-Haz. Soil
01/08/03	11:53	12:27	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	95	80160	52220	26.11	814	Non-Haz. Soil
01/08/03	13:20	13:22	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	75320	47220	23.61	815	Non-Haz. Soil
01/08/03	13:20	13:25	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	69480	42520	21.26	816	Non-Haz. Soil
01/08/03	13:20	13:28	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	72540	44900	22.45	817	Non-Haz. Soil
01/08/03	13:20	13:32	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	74440	46280	23.14	818	Non-Haz. Soil
01/08/03	13:20	14:06	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	60180	35220	17.61	819	Non-Haz. Soil
01/08/03	13:20	14:14	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	45	76600	48460	24.23	820	Non-Haz. Soil
01/08/03	13:20	14:16	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	68660	40800	20.4	821	Non-Haz. Soil
01/08/03	13:20	14:18	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	72220	44320	22.16	822	Non-Haz. Soil
01/09/03	8:00	8:06	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	74940	47980	23.99	823	Non-Haz. Soil
01/09/03	8:00	8:09	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	77420	49260	24.63	824	Non-Haz. Soil
01/09/03	8:00	8:12	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	74680	46580	23.29	825	Non-Haz. Soil
01/09/03	8:00	8:15	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	61120	36160	18.08	826	Non-Haz. Soil
01/09/03	8:00	8:17	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1777	74560	46500	23.25	827	Non-Haz. Soil
01/09/03	8:00	8:20	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	78460	50820	25.44	828	Non-Haz. Soil
01/09/03	8:00	8:22	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	74920	47060	23.53	829	Non-Haz. Soil
01/09/03	8:00	8:31	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	79	75560	48480	24.24	930	Non-Haz. Soil
01/09/03	8:00	8:34	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	95	73100	45160	22.58	831	Non-Haz. Soil
01/09/03	8:00	8:36	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	79340	57440	25.72	832	Non-Haz. Soil
01/09/03	9:25	9:33	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	45	72780	44640	22.32	833	Non-Haz. Soil
01/09/03	9:42	9:45	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	67900	40940	20.47	834	Non-Haz. Soil
01/09/03	9:42	9:50	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	73340	45180	22.59	835	Non-Haz. Soil
01/09/03	9:42	9:53	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1777	66800	38740	19.37	836	Non-Haz. Soil
01/09/03	9:42	9:57	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	69080	40980	20.49	837	Non-Haz. Soil
01/09/03	9:42	10:00	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	57080	32120	16.06	838	Non-Haz. Soil

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SEAD 50/54 Soil Removal
Seneca Army Depot
13 March 2003

DATE	TIME IN	TIME OUT	DESTINATION	AREAS MATERIAL ORIGINATED	HAULER COMPANY NAME	TRUCK ID#	TARE WEIGHT (LBS)	SCALE (LBS)	NET WEIGHT (tons)	MANIFEST NO.	MATERIAL TYPE
01/09/03	9:42	10:03	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	71100	43460	21.73	839	Non-Haz. Soil
01/09/03	9:42	10:20	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	70120	42260	21.13	840	Non-Haz. Soil
01/09/03	9:42	10:23	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	67080	39180	19.59	841	Non-Haz. Soil
01/09/03	9:42	10:25	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	79	68780	41700	20.85	842	Non-Haz. Soil
01/09/03	9:42	10:29	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	95	70400	42460	21.23	843	Non-Haz. Soil
01/09/03	9:42	10:59	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	45	73120	44980	22.49	844	Non-Haz. Soil
01/09/03	11:12	11:15	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	70200	42140	21.07	845	Non-Haz. Soil
01/09/03	11:12	11:18	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1777	74900	46840	23.42	846	Non-Haz. Soil
01/09/03	11:12	11:21	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	72980	44880	22.44	847	Non-Haz. Soil
01/09/03	11:12	11:24	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	62180	37220	18.61	848	Non-Haz. Soil
01/09/03	11:12	11:27	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	70140	43780	21.89	849	Non-Haz. Soil
01/09/03	11:12	11:30	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	73920	46280	23.14	850	Non-Haz. Soil
01/09/03	11:12	11:43	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	73040	45180	22.59	851	Non-Haz. Soil
01/09/03	11:12	11:48	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	76660	48760	24.38	852	Non-Haz. Soil
01/09/03	11:12	11:51	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	79	73280	46200	23.1	853	Non-Haz. Soil
01/09/03	11:12	11:54	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	95	73440	45500	22.75	854	Non-Haz. Soil
01/09/03	12:40	12:45	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	45	78180	50040	25.02	855	Non-Haz. Soil
01/09/03	12:40	12:48	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	80040	51880	25.94	856	Non-Haz. Soil
01/09/03	12:40	12:53	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1777	73240	45180	22.59	857	Non-Haz. Soil
01/09/03	12:40	12:54	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	73060	44960	22.48	858	Non-Haz. Soil
01/09/03	12:40	12:56	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	60280	35320	17.66	859	Non-Haz. Soil
01/09/03	12:40	12:58	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	677	72560	45600	22.8	860	Non-Haz. Soil
01/09/03	13:25	13:31	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	68180	40320	20.16	861	Non-Haz. Soil
01/09/03	13:35	13:40	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	42320	14420	7.21	862	Non-Haz. Soil
02/06/03	8:00	8:20	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	60120	32220	16.11	863	Non-Haz. Soil
02/06/03	8:00	8:22	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	76	61220	33120	16.56	864	Non-Haz. Soil
02/06/03	8:00	8:25	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	45	65400	37260	18.63	865	Non-Haz. Soil
02/06/03	8:00	8:28	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	60020	32380	16.19	866	Non-Haz. Soil
02/06/03	8:00	8:33	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	58300	30280	15.14	867	Non-Haz. Soil
02/06/03	8:00	8:35	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	54500	29540	14.77	868	Non-Haz. Soil
02/06/03	8:00	8:40	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1777	64500	36440	18.22	869	Non-Haz. Soil
02/06/03	8:00	8:45	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	64000	35840	17.92	870	Non-Haz. Soil
02/06/03	9:30	9:35	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	61820	33920	16.96	871	Non-Haz. Soil
02/06/03	9:30	9:38	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	76	60140	32040	16.02	872	Non-Haz. Soil
02/06/03	9:30	9:55	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	61900	34260	17.13	873	Non-Haz. Soil
02/06/03	9:30	10:00	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	61120	33020	16.51	874	Non-Haz. Soil
02/06/03	9:30	10:05	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	50500	25540	12.77	875	Non-Haz. Soil
02/06/03	9:30	10:07	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1777	60800	32740	16.37	876	Non-Haz. Soil
02/06/03	9:30	10:10	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	62800	34640	17.32	877	Non-Haz. Soil
02/06/03	10:55	10:56	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	76	65920	37820	18.91	878	Non-Haz. Soil
02/06/03	10:55	11:00	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	66500	38600	19.3	879	Non-Haz. Soil
02/06/03	10:55	11:05	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	63780	35920	17.96	880	Non-Haz. Soil
02/06/03	10:55	11:08	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	66420	38780	19.39	881	Non-Haz. Soil
02/06/03	10:55	11:18	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	67820	39720	19.86	882	Non-Haz. Soil

* Per Load (Tons) column is based on the weights from the Seneca Meadows Landfill scale

Manifest Tracking Summary
SEAD 50/54 Soil Removal
Seneca Army Depot
13 March 2003

DATE	TIME IN	TIME OUT	DESTINATION	AREAS MATERIAL ORIGINATED	HAULER COMPANY NAME	TRUCK ID#	TARE WEIGHT (LBS)	SCALE (LBS)	NET WEIGHT (tons)	MANIFEST NO.	MATERIAL TYPE
02/06/03	10:55	11:25	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	53980	29020	14.51	883	Non-Haz. Soil
02/06/03	10:55	11:30	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1777	67620	39560	19.78	884	Non-Haz. Soil
02/06/03	10:55	11:34	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	68760	40600	20.3	885	Non-Haz. Soil
02/06/03	12:05	12:10	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	76	65940	37840	18.42	887	Non-Haz. Soil
02/06/03	12:05	12:18	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	68460	40560	20.28	888	Non-Haz. Soil
02/06/03	12:05	12:24	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	66280	38640	19.32	889	Non-Haz. Soil
02/06/03	12:05	12:27	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	65480	37620	18.81	890	Non-Haz. Soil
02/06/03	12:05	12:43	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	65740	37640	18.82	891	Non-Haz. Soil
02/06/03	12:05	12:47	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	53500	28540	14.27	892	Non-Haz. Soil
02/06/03	12:05	12:50	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1777	63560	35500	17.75	893	Non-Haz. Soil
02/06/03	12:05	12:55	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	67440	39280	19.64	894	Non-Haz. Soil
02/06/03	13:25	13:30	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	76	67320	39220	19.61	895	Non-Haz. Soil
02/06/03	13:25	13:45	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	63920	36060	18.03	896	Non-Haz. Soil
02/06/03	13:25	13:54	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	68340	40440	20.22	897	Non-Haz. Soil
02/06/03	13:25	13:55	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	65540	37900	18.95	898	Non-Haz. Soil
02/06/03	13:25	14:03	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1177	65680	37580	18.79	899	Non-Haz. Soil
02/06/03	13:25	14:07	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	377	52440	27480	13.74	900	Non-Haz. Soil
02/06/03	13:25	14:10	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	1777	59820	31760	15.8	901	Non-Haz. Soil
02/06/03	13:25	14:14	Seneca Meadows Landfill	50/54-Redigs	Seneca Pipe and Paving	2477	62580	34420	17.21	902	Non-Haz. Soil
02/07/03	8:00	8:05	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	67640	39740	19.87	903	Non-Haz. Soil
02/07/03	8:00	8:10	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	57680	30040	15.02	904	Non-Haz. Soil
02/07/03	8:00	8:17	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	76	37400	9300	4.65	865	Non-Haz. Soil
3/4/03	8:00	8:20	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	61960	34320	17.16	906	Non-Haz. Soil
3/4/03	8:00	8:30	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	45	63180	35040	17.52	907	Non-Haz. Soil
3/4/03	8:00	8:37	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	76	65680	37580	18.79	908	Non-Haz. Soil
3/4/03	9:00	9:20	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	98	66180	37880	18.94	909	Non-Haz. Soil
3/4/03	9:15	9:30	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	72	67380	39020	19.51	910	Non-Haz. Soil
3/4/03	9:30	9:37	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	82	64160	35500	17.75	911	Non-Haz. Soil
3/4/03	9:20	9:40	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	41	63540	35820	17.91	912	Non-Haz. Soil
3/4/03	9:47	9:47	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	63660	35800	17.9	913	Non-Haz. Soil
3/4/03	9:55	9:55	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	65180	37280	18.64	914	Non-Haz. Soil
3/4/03	10:00	10:12	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	76	67300	39200	19.6	915	Non-Haz. Soil
3/4/03	10:05	10:20	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	45	72160	44020	22.01	916	Non-Haz. Soil
3/4/03	10:45	10:52	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	66820	39180	19.59	917	Non-Haz. Soil
3/4/03	10:55	11:05	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	98	62940	34640	17.32	918	Non-Haz. Soil
3/4/03	11:06	11:12	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	72	64520	36160	18.08	919	Non-Haz. Soil
3/4/03	11:13	11:18	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	41	63700	35980	17.99	920	Non-Haz. Soil
3/4/03	11:20	11:25	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	65360	37500	18.75	921	Non-Haz. Soil
3/4/03	11:22	11:29	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	82	67100	38440	19.22	922	Non-Haz. Soil
3/4/03	11:28	11:35	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	64100	36200	18.1	923	Non-Haz. Soil
3/4/03	11:35	11:40	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	76	65640	37540	18.77	924	Non-Haz. Soil
3/4/03	11:41	11:46	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	45	67100	38960	19.48	925	Non-Haz. Soil
3/4/03	11:55	12:00	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	79	66120	39040	19.52	926	Non-Haz. Soil
3/4/03	12:08	12:15	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	67740	40100	20.05	927	Non-Haz. Soil

* Per Load (Tons) column is based on the weights from the Seneca Meadows Landfill scale

Manifest Tracking Summary
SEAD 50/54 Soil Removal
Seneca Army Depot
13 March 2003

DATE	TIME IN	TIME OUT	DESTINATION	AREAS MATERIAL ORIGINATED	HAULER COMPANY NAME	TRUCK ID#	TARE WEIGHT (LBS)	SCALE (LBS)	NET WEIGHT (tons)	MANIFEST NO.	MATERIAL TYPE
3/4/03	12:30	12:36	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	72	65700	37340	18.67	928	Non-Haz. Soil
3/4/03	12:40	12:45	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	98	64620	36320	18.16	929	Non-Haz. Soil
3/4/03	12:43	12:50	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	41	63980	36260	18.13	930	Non-Haz. Soil
3/4/03	12:50	12:57	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	82	62980	34320	17.16	931	Non-Haz. Soil
3/4/03	13:00	13:05	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	64060	36200	18.1	932	Non-Haz. Soil
3/4/03	13:05	13:10	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	61200	33300	16.65	933	Non-Haz. Soil
3/4/03	13:10	13:15	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	76	60260	32160	16.08	934	Non-Haz. Soil
3/4/03	13:15	13:20	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	79	57180	30100	15.05	935	Non-Haz. Soil
3/4/03	13:30	13:35	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	45	59780	31640	15.82	936	Non-Haz. Soil
3/4/03	13:35	13:40	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	74	63880	36240	18.12	937	Non-Haz. Soil
3/4/03	13:55	14:00	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	72	68180	39820	19.91	938	Non-Haz. Soil
3/4/03	14:00	14:06	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	98	68660	40360	20.18	939	Non-Haz. Soil
3/4/03	14:06	14:10	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	41	71200	43480	21.74	940	Non-Haz. Soil
3/4/03	14:10	14:15	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	82	64020	35360	17.68	941	Non-Haz. Soil
3/4/03	15:20	15:25	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	97	67220	39360	19.68	943	Non-Haz. Soil
3/4/03	15:20	15:30	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	76	60580	32480	16.24	944	Non-Haz. Soil
3/4/03	15:20	15:35	Seneca Meadows Landfill	50/54-Redigs	Riccelli Enterprises	71	69220	41320	20.66	942	Non-Haz. Soil
								Total ACM	**36.6**	**Tons**	
								Total	**14040.2**	**Tons**	

* Per Load (Tons) column is based on the weights from the Seneca Meadows Landfill scale

FACILITY DISPOSAL LETTER

SESSLER WRECKING

Division of
L. M. SESSLER EXCAVATING & WRECKING, INC.
1257 NYS ROUTE 96
WATERLOO, NEW YORK 13165

(315) 539-8222 FAX (315) 539-3967

MAR 06 2003

March 4, 2003

Weston Solutions, Inc.
1 Wall Street
Manchester, NH 03101

ATTN: Chris Kane, Project Manager

RE: Contract DACA45-98-D-0004 Documentation
Rapid Response Action, Metal Sites SEAD's 50/54 and 67
Seneca Army Depot Activity, Romulus, NY

Enclosed please find Chain of Custody Reports from Seneca Meadows for 2002. If you have any questions or require further information, please do not hesitate to contact our office.

Respectfully,

Deborah Eannetta
Secretary

Enclosure

Seneca Meadows, Inc.

1786 Salcman Road
Waterloo, NY 13165
(315) 539-5624
Fax: (315) 539-3097

York State Approved Landfill

March 3, 2003

Mr. Jeff Ignaszak
Project Coordinator
L.M. Sessler Excavating and Wrecking
1257 NYS Route 96 North
Waterloo, New York 13165

Dear Jeff;

As requested I am listing all the contaminated soil piles approved and disposed at Seneca Meadows Landfill located in Waterloo, New York from your project at the Seneca Army Depot in Romulus, New York during the year 2002. I have enclosed all chains of custody for the material received at our facility from this project.

If you have any further questions, please do not hesitate to call me at 1-800-724-7537.

Sincerely,

Robert (Rocky) LaRocca
Vice President

APPENDIX I

METAL CERTIFICATE OF DESTRUCTION

EMPIRE/SENECA LLC
1606 RT. 414
WATERLOO, NY 13165

Telephone (315) 539-0541 FAX (315) 539-0409

February 27, 2003

Frank Henderson
Weston Solutions
5837 SR 96A Post Gate 2
Romulus, NY 14541

To whom it may concern:

The material delivered by Weston Solutions on December 2, 2002 was crushed, cut or baled. The pieces were shipped to a foundry to be melted.

Thank you,

Jim Mellas