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OPERABLE UNIT 1
REMEDIAL ACTION REPORT

Sunnyside Yard
Queens, New York

ROUX Associates, Inc.
ENVIRONMENTAL CONSULTING & MANAGEMENT

OPERABLE UNIT 1
REMEDIAL ACTION REPORT

Sunnyside Yard
Queens, New York

March 11, 1998
(Revised April 9, 1998)

Prepared for:

National Railroad Passenger Corporation
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4th Floor South
Philadelphia, Pennsylvania 19104

Prepared by:

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CONTENTS

1.0 INTRODUCTION 1
1.1 OU-1 Site Description and History 2
1.2 NYSDEC-Recommended Soil Cleanup Levels 3

2.0 QUALITY ASSURANCE OBJECTIVES 5

3.0 HEALTH AND SAFETY MEASURES 6

4.0 MODIFICATIONS TO THE OU-1 REMEDIAL DESIGN REPORT 7

5.0 SUMMARY OF REMEDIATION ACTIVITIES 8
5.1 Pre-Construction/Mobilization Activities 8
5.2 Asphalt and Concrete Removal 9
5.3 Soil Excavation 9
5.4 Preparation and Use of Staging Areas and Temporary Storage Tanks 10
5.5 Post-Excavation Soil Sampling 11
5.6 Post-Excavation Concrete Sampling 11
5.7 Disposal 12
5.8 Project Closeout 13

6.0 ANALYTICAL DATA QUALITY AND USABILITY 14

7.0 AS-BUILT DOCUMENTATION 15

8.0 ENGINEER'S CERTIFICATION 16

DRAWING

1. Operable Unit 1 Site Map As-Built Drawing

TABLES

1. Summary of Liquid Disposal Sampling Analytical Results at OU-1
2. Summary of Post-Excavation Soil Sampling Analytical Results at OU-1
3. Summary of Post-Excavation Concrete Sampling Analytical Results at OU-1
4. Summary of Disposal Sampling Analytical Results of Excavated Soil at OU-1

FIGURES

1. Yard Location Map
2. Location of Operable Units
3. Excavation Depths
4. Soil and Concrete Post-Excavation Sample Locations

APPENDICES

A. March 31, 1998 NYSDEC Letter to Roux Associates, Inc. and April 6, 1998 Letter to the NYSDEC
B. December 18, 1997 Letter to the NYSDEC
C. December 19, 1997 Letter to the NYSDEC
D. Liquid Disposal Characterization Sampling Data Package
E. Post-Excavation Soil Sampling Data Package
F. Post-Excavation Concrete Sampling Data Package
G. Soil Disposal Characterization Sampling Data Package
H. Soil Disposal Records
I. Asphalt and Concrete Disposal Records
J. Liquid Disposal Records
K. Final Survey
L. Analytical Data Quality and Usability Evaluation

1.0 INTRODUCTION

The National Railroad Passenger Corporation (Amtrak) owns property known as Sunnyside Yard (Yard), located at 39-29 Honeywell Street in Queens County, a borough of New York City, New York (Figure 1). A portion of the Yard has been designated by Amtrak for construction of a new High Speed Trainset Facility (HSTF) Service and Inspection (S&I) Building and its ancillary structures (i.e., the access road and utilities route, the parking area, the construction easement area which surrounds the building, and the construction laydown area). The Sunnyside Yard is listed as a Class II Site in the New York State Department of Environmental Conservation's (NYSDEC) Registry of Inactive Hazardous Waste Disposal Sites. As a result of the listing for the entire Yard, Amtrak, New Jersey Transit Corporation (NJTC), and the NYSDEC entered into an Order on Consent (OOC) Index #W2-0081-87-06 effective October 1989.

In accordance with the OOC, several investigations have been performed at the Yard including, but not limited to, remedial investigations, feasibility studies, and a risk assessment. Each of these investigations was performed by Roux Associates, Inc. (Roux Associates), an affiliate of Remedial Engineering, P.C. As a result of these investigations, areas of the Yard were identified where levels of contamination require remedial efforts. With the NYSDEC's concurrence, to accommodate the HSTF S&I Building construction schedule and still address remedial efforts sitewide in a timely and orderly manner, the Yard has been subdivided into six operable units (Figure 2). The operable units are described as follows:

- Operable Unit 1 (OU-1) designated as the soil above the water table within the footprint of the proposed HSTF S&I Building;
- Operable Unit 2 (OU-2) designated as the soil above the water table within the footprint of the HSTF S&I Building ancillary structures (i.e., the access road and utilities route, the parking area, the construction easement area which surrounds the building, and the construction laydown area);
- Operable Unit 3 (OU-3) designated as the soil and separate-phase petroleum accumulation above the water table in Area 1 of the Yard, as defined in the Phase I Remedial Investigation (RI) report;
- Operable Unit 4 (OU-4) designated as the soil above the water table in the remainder of the Yard;
- Operable Unit 5 (OU-5) designated as the sewer system beneath the Yard; and

- Operable Unit 6 (OU-6) designated as the ground water including the saturated soil beneath the Yard.

Following the Operable Unit approach, a Feasibility Study (FS) was submitted for OU-1 (April 18, 1997) which involved the development and evaluation of alternatives to remediate carcinogenic polycyclic aromatic hydrocarbon (cPAH) impacted soil within OU-1.

A Proposed Remedial Action Plan (PRAP) was issued on June 9, 1997 to identify the preferred remedy for OU-1 as stated in the OU-1 FS, summarize other alternatives, and discuss the rationale for this preference. The PRAP was issued as a component of citizen participation activities. A public meeting was held on June 24, 1997 to explain the components of the PRAP and answer questions from the public. Following a public comment period, the Record of Decision (ROD) was issued on August 13, 1997, identifying OU-1 FS Alternative III - Asphalt and Concrete Removal, Soil Excavation, and Off-Site Disposal as the selected remedy for implementation. The OU-1 Remedial Design Report (Remedial Engineering, P.C., October 8, 1997) established the scope of work required to complete the selected remedy required in the ROD. The OU-1 Order on Consent, Index #W2-0081-97-06 was issued on February 9, 1998.

This document, the OU-1 Remedial Action Report, serves to summarize the activities performed to implement the NYSDEC-selected alternative to remediate the impacted soil above the water table within OU-1 (Drawing 1). The contents of this report describe the implementation of the OU-1 remedial action in accordance with the requirements of the approved OU-1 Remedial Design Report (which included Specifications, Drawings, a Health and Safety Plan, and a Contingency Plan). Additionally, NYSDEC correspondence containing comments regarding the initial submission of this document and Amtrak's response letter satisfying the OU-1 comments are included as Appendix A.

1.1 OU-1 Site Description and History

OU-1 is located in the northeastern portion of the Yard as shown in Figure 2. OU-1 measures approximately 790 feet in length and 60 feet in width, and is slightly over one acre in total area.

The topography of OU-1 is primarily level and gently slopes down from east to west along its length.

OU-1 and the surrounding Yard were originally owned and developed in the early 1900s by the Pennsylvania Tunnel and Terminal Company, a subsidiary of the Pennsylvania Railroad (later known as the Penn Central Transportation Company). On April 1, 1976, the Consolidated Rail Corporation (Conrail) acquired the Yard and the same day conveyed it to Amtrak. The Yard originally operated as a storage and maintenance facility for railroad rolling stock and currently functions primarily as a train maintenance and train makeup facility for electric locomotives and railroad cars for Amtrak and NJTC. OU-1 formerly housed an inspection pit/repair shed and a portion of a locomotive washer.

OU-1 operated as a portion of an active 105-acre rail yard and was formerly occupied by Wheel Tracks No. 1 and No. 2 and a portion of the Metroliner Shed and the No. 1 Engine House Track. Currently, the most readily apparent features of OU-1 are concrete and asphalt platforms, occasional concrete ruins, overhead electric catenary wires, and the ubiquitous presence of ballast. The railroad tracks and overhead electric catenary wires in the area to be excavated were removed by Amtrak prior to initiation of remediation activities.

OU-1 is located entirely within the boundaries of the Yard. Land use immediately adjacent to the Yard is almost exclusively mixed commercial and light industrial with surrounding residential areas located primarily to the south and east.

1.2 NYSDEC-Recommended Soil Cleanup Levels

Based on an evaluation of the Yard conditions, in a February 25, 1997 letter to Roux Associates, the NYSDEC and New York State Department of Health (NYSDOH) issued the following NYSDEC-recommended soil cleanup levels for the contaminants of concern at the Yard, including OU-1:

- Semivolatile organic compounds (SVOCs) - 10 parts per million (ppm) for both surface and subsurface soil for total cPAHs;
- Lead - 1,000 ppm for both surface and subsurface soil; and

- Polychlorinated biphenyls (PCBs) - 25 ppm for both surface and subsurface soil.

The letter further acknowledged that while certain metals were found in soil throughout the Yard above the NYSDEC's Recommended Soil Cleanup Objectives (RSCOs), none (with the exception of lead) were present at levels high enough to require any remediation. Additionally, the letter did not specify NYSDEC-recommended soil cleanup levels for volatile organic compounds (VOCs) since no VOCs were detected at the Yard above the RSCOs.

2.0 QUALITY ASSURANCE OBJECTIVES

Quality assurance objectives were established in the OU-1 Remedial Design Report to verify that all remediation activities were implemented in accordance with the Contract Documents (i.e., the Specifications, Drawings, Health and Safety Plan, and Contingency Plan), thus performing remediation in conformance with the remedy selected in the ROD. For the duration of construction, the quality assurance objectives were achieved, in part, with the provision of full-time oversight of the Contractor's work activities by Roux Associates/Remedial Engineering. The responsibilities of Roux Associates/Remedial Engineering included:

- observing and reviewing progress of the Contractor from mobilization activities through completion of the project;
- conducting daily meetings with the Contractor each morning prior to initiation of the day's work activities to discuss the work to be performed;
- verifying the Contractor's use of appropriate construction practices and construction materials;
- requiring the Contractor to conform with the requirements of the Contract Documents;
- reporting to Amtrak any necessary modifications to the OU-1 Remedial Design Report and formally conveying those modifications to the NYSDEC for approval; and
- following appropriate sampling and analytical methods and procedures throughout the duration of the remediation work.

Additional quality assurance measures consist of:

- certification by a New York State-registered Professional Engineer to identify that all remediation activities were conducted in accordance with the Contract Documents; and
- the requirement for the Contractor to guarantee all work performed, and materials supplied, for a period of at least one year after completion of construction.

3.0 HEALTH AND SAFETY MEASURES

During OU-1 remediation activities, a full-time Site Safety Officer was present to perform health and safety monitoring at the work site for employees of Amtrak and Roux Associates/Remedial Engineering. Additional duties of the Site Safety Officer included:

- observing equipment decontamination procedures;
- coordinating daily health and safety briefings with all OU-1 remediation personnel; and
- performing full-time work zone air monitoring using a photoionization detector and particulate meter.

During construction activities, Amtrak track safety procedures were followed which included protection provided by electric traction (ET) personnel and a track flagman. Although the overhead electric catenary lines were taken out of service in OU-1 during pre-construction activities, there was the potential for the excavator to come in contact with energized lines outside of OU-1, due to the extended reach of the machinery. The ET personnel were present to oversee activities near the overhead catenary lines, and if underground electrical cables were discovered in the excavation. A flagman was present throughout the duration of the project to warn of the approach of trains. This was an added safety precaution, as active tracks were within 25 feet of the work area.

All open excavations were surrounded with plastic safety fencing and caution tape in accordance with the Specifications. This precautionary procedure was followed to minimize the potential for injuries of OU-1 remediation personnel, as well as any Amtrak employees working in proximity to the excavation.

4.0 MODIFICATIONS TO THE OU-1 REMEDIAL DESIGN REPORT

During excavation activities, two concrete structures (i.e., inspection pits) were discovered that run east to west across the remediation area, each structure, including sidewalls, measuring approximately 14 feet wide by 70 feet long and up to four feet deep (Figure 3). Although it was anticipated that these inspection pits were present, it was not anticipated that they would be as large as they were. In addition, two unanticipated structures (i.e., drop table pits) were encountered that run in the north-south direction, each intersected by one of the inspection pits. Both of the drop table pits measure approximately 30 feet long by five feet wide by seven feet deep. All four of these structures were found to contain soil, fill material, and debris and material in all four were excavated in accordance with the Specifications and as described in Section 5.3. Profiles of the excavation area including the depths of the inspection and drop table pits are shown in Figure 3. The surveyed final depths of the excavation are shown on Drawing 1.

As indicated in Section 2.4 of the OU-1 Remedial Design Report, any subsurface concrete encountered during excavation activities was to be removed and staged prior to off-site disposal. However, due to the large size of the structures, Roux Associates/Remedial Engineering, P.C. requested in a letter to the NYSDEC dated December 18, 1997 (Appendix B), to leave these structures in place. This request was supported by the fact that the structures were found to be structurally intact (i.e., a barrier to downward migration of contaminants, if present) with no visible staining or other signs of contamination. The NYSDEC approved this request verbally with the provision that the concrete be sampled for the contaminants of concern at the Yard. Roux Associates/Remedial Engineering, P.C. formalized the concrete sampling protocol in a December 19, 1997 letter to the NYSDEC (Appendix C). Details pertaining to concrete sampling and analysis are discussed further in Section 5.6 of this report.

5.0 SUMMARY OF REMEDIATION ACTIVITIES

The following activities were performed as part of the OU-1 remediation, and are discussed in the sections below:

- pre-construction/mobilization activities;
- asphalt and concrete removal;
- soil excavation;
- preparation and use of staging areas and temporary storage tanks;
- post-excavation soil sampling;
- post-excavation concrete sampling;
- disposal; and
- project closeout.

5.1 Pre-Construction/Mobilization Activities

Prior to OU-1 remediation activities, two active railroad tracks (Wheel Tracks No. 1 and No. 2) were present on the surface of OU-1. These tracks, which include rails, ties and ballast, were taken out of service and the rails and ties in the work area were removed by Amtrak personnel prior to Contractor mobilization. In addition to track work, catenary lines were also taken out of service in OU-1 and removed in the work area. Following removal of the tracks and catenary lines, Topo-Metrics, Inc. of Hauppauge, New York, a licensed land surveyor, was contracted to mark out the limits of the excavation area based on information in the OU-1 Remedial Design Report. These markers were used as the corners of the limit of excavation for the Contractor during concrete and asphalt removal, as well as soil excavation activities.

Once the above pre-construction activities were complete, mobilization of the Contractor's work force and equipment commenced. The earthwork equipment consisted of an excavator, 10-wheel dump truck, truck mounted pneumatic hoe-ram hammer, backhoe, and a front-end loader.

5.2 Asphalt and Concrete Removal

Following Contractor mobilization activities, all surface asphalt and concrete within the OU-1 remediation area was removed. Approximately two to three inches of asphalt, and eight to 12 inches of surface concrete were present. The asphalt was sawcut to the surveyed excavation limits, however, due to the thickness of the concrete, sawcutting could not be used to break up the material. As a result, the pneumatic hoe-ram hammer was used for the remaining concrete demolition. The demolished materials were removed using the excavator and front-end loader, and staged in a lined stockpile area prior to off-site disposal at a recycling facility. A total of 280 cubic yards of asphalt and concrete were removed from OU-1.

5.3 Soil Excavation

Following asphalt and concrete removal, the underlying soil was exposed. In addition to the soil, fill material and debris were also present in the excavation area. In accordance with the OU-1 Remedial Design Report, the vertical extent of the excavation (approximately 3 feet below land surface) extended to the water table, and did not include saturated soil. In addition, the intent of the remediation was to remove any visibly-contaminated soil even if it extended below the water table. However, visibly contaminated soil was not encountered during the remediation.

As noted in Section 4.0, during excavation, two subsurface concrete inspection pits were uncovered. Most of the material within these structures was removed using the excavator, however, Contractor personnel used shovels to remove all remaining soil, and the exposed concrete surfaces were broom-cleaned of any adhered soil.

Soil, fill material and debris were also encountered in the drop table pits to a depth of approximately eight feet below land surface (bls). The excavator and backhoe were able to remove the majority of this material. Contractor personnel with confined space entry training entered the drop table pits and removed the remaining material with shovels.

Electrical cables and conduits were found in the subsurface across the entire OU-1 remediation area. These cables were tested by Amtrak ET personnel, and deemed to be inactive. As directed by Amtrak's personnel and in accordance with their requirements, all electrical cables in the

excavation area were removed. The cables were segregated and staged for disposal along with the excavated soil and debris.

In areas outside of the inspection and drop table pits, soil was removed to a depth of approximately 3 feet bls. All final excavation depths are shown in Drawing 1. Approximately 472 tons of soil, fill material and debris were excavated and disposed as described in Section 5.7.

Liquid encountered in the drop table pits during soil excavation activities was pumped, discharged to a temporary tank and stored prior to sampling and disposal.

5.4 Preparation and Use of Staging Areas and Temporary Storage Tanks

A total of four staging areas were constructed for excavated soil and related debris. In each of the four soil staging areas, berms were formed on three sides, and the soil piles were sloped so any liquids leaching from the soil would collect within the bermed area. The berms were formed by mounding clean fill material on three sides on a layer of polyethylene sheeting. Another layer of sheeting was then placed over the fill, and a depression was formed where soil was placed. The soil staging areas were covered daily with a layer of polyethylene sheeting to prevent precipitation from entering the soil piles. The berms were used as a control when the front-end loader emptied the soil onto the staging areas and to prevent runoff in the event of precipitation. The asphalt and concrete was staged separately from the soil, on a layer of polyethylene sheeting in a fifth staging area.

A total of 2,450 gallons of liquid was pumped from the drop table pits and transferred to a 20,000-gallon storage tank located west of OU-1. This tank is used by Amtrak for other Yard operations besides work in OU-1, and will remain at the Yard. A liquid disposal characterization sample was collected on January 29, 1998. Analytical results for this sample have been included in Table 1 and the data package is included as Appendix D. The liquid was sampled for PCBs, RCRA characteristics (i.e., ignitability, corrosivity, reactivity), and total organic halogens. As shown in Table 1, the materials are not considered hazardous.

5.5 Post-Excavation Soil Sampling

Upon completion of all soil excavation activities, post-excavation soil sampling was performed to determine if further excavation, beyond the limits determined in the OU-1 Remedial Design Report, was necessary. Samples were collected from each side wall and bottom of the excavated area in accordance with the procedures presented in the OU-1 Remedial Design Report. The samples were analyzed by Industrial Corrosion Management, Inc. Laboratory (ICM) of Randolph, New Jersey, a New York State-certified laboratory. The post-excavation soil analysis was performed in accordance with NYSDEC 1995 Analytical Services Protocol (ASP) Method 95-2 and confirmed that all contaminated soil with total cPAH concentrations greater than 10 ppm was removed.

For soil sampling purposes, the excavated area was divided into north and south regions based upon the location of the inspection pits. Two composite soil samples were collected from the bottom of the excavation (i.e., B.W. and N.B.). Additionally, one composite soil sample was collected from each of the four sidewalls (i.e., N.W., S.W., E.W., W.W.) for a total of six composite post-excavation composite soil samples (Figure 4). Analytical results from the post-excavation sampling activities were provided by the laboratory in 48-hour turnaround time so that activities could proceed should additional excavation be warranted. The analytical results of the post-excavation soil samples indicated that concentrations of cPAHs ranged from not detected in the north sidewall sample to 4.72 ppm (i.e., 4,720 micrograms per kilogram) in the west sidewall sample, which are well below the NYSDEC-recommended soil cleanup level for OU-1. The analytical results are presented in Table 2 and the data package for all soil samples is included as Appendix E.

5.6 Post-Excavation Concrete Sampling

In accordance with the concrete sampling protocol contained in the December 19, 1997 correspondence to the NYSDEC from Remedial Engineering P.C. (Appendix C), and verbal approval by Mr. Hari Agrawal, P.E. of NYSDEC to Mr. Joseph Duminuco of Roux Associates on December 22, 1997, concrete chip sample composites were collected at 10-foot intervals along each of the inspection pits. Each composite sample consisted of material from each of the seven exposed concrete faces of the inspection pits. A total of seven composite samples were collected

along each inspection pit. One of the seven sample locations from each inspection pit coincided with the location of a drop table pit and, therefore, a composite sample was collected across each drop table pit also. One duplicate sample was collected for quality control purposes, resulting in a total of fifteen composite concrete samples (Figure 4).

Preliminary analytical results indicated an elevated PCB concentration in composite sample C-11. Therefore, the NYSDEC requested that each of the seven locations which comprised composite sample C-11 be resampled as discrete chip samples and analyzed for PCBs.

The concrete samples were analyzed for one of more of the following: cPAHs using ASP 95-2; PCBs using ASP 95-3, and lead using the United States Environmental Protection Agency Contract Laboratory Statement of Work. Analytical results of the post-excavation concrete sampling (including the discrete concrete chip samples at C-11) indicate that none of the samples exceed their respective NYSDEC-recommended cleanup level for the contaminants of concern and, therefore, the concrete was left in place. The analytical results are presented in Table 3 and the data package for all concrete samples is included as Appendix F.

5.7 Disposal

Prior to disposal of the excavated soil, disposal characterization sampling was performed in accordance with requirements of the disposal facility. Composite samples were collected from the soil stockpiles. These samples were analyzed for cadmium, chromium, and lead using the toxicity characteristic leaching procedure, PCBs, and oil and grease. Analytical results for the soil disposal sampling activities are shown in Table 4, and the data package is included as Appendix G.

The soil was disposed at G.R.O.W.S., Inc. (Waste Management of Pennsylvania), an Amtrak-approved Resource Conservation and Recovery Act (RCRA) Subtitle D (non-hazardous) disposal facility located in Morrisville, Pennsylvania. Approximately 472 tons of soil and debris were disposed. Soil disposal manifests are included as Appendix H.

The surface asphalt and concrete was hauled to Waste Management of New York, an Amtrak-approved facility located in Queens, New York for recycling. A total of 280 cubic yards of asphalt and concrete was disposed. Disposal records are included as Appendix I.

The liquid encountered in the drop table pits was disposed at Lancaster Oil, an Amtrak-approved facility located in Lancaster, Pennsylvania. A total of 2,450 gallons was disposed. Disposal records are included as Appendix J.

5.8 Project Closeout

Following completion of the remedial activities, the excavated area was resurveyed to determine final excavation depths and the limits of the remaining concrete structures (i.e., inspection and drop table pits). This survey is included as Appendix K. Roux Associates/Remedial Engineering staff prepared a punch list of outstanding items for the Contractor and once the work was completed a final inspection was performed. The final inspection of the remediated area of OU-1 was performed by a New York State-registered Professional Engineer to verify that the remediation had been completed in accordance with the OU-1 Remedial Design Report.

6.0 ANALYTICAL DATA QUALITY AND USABILITY

An evaluation of the analytical data was performed to determine the overall quality and usability of the confirmatory sample results for OU-1 generated by ICM. Fifteen composite concrete chip samples (including one duplicate), seven discrete concrete chip samples, six composite post-excavation soil samples, and six composite soil stockpile samples were collected by Roux Associates/Remedial Engineering. The soil stockpile sample results were not included as part of this data quality and usability assessment, as these samples were analyzed for disposal characterization only and the data packages were not intended for validation. The data quality and usability evaluation is included in Appendix L.

7.0 AS-BUILT DOCUMENTATION

In accordance with the OU-1 Remedial Design Report, Drawing 1 has been included as an as-built drawing. It shows the final condition of the OU-1 excavation in light of the changes to the remedial design which resulted from the discovery of the concrete trenches that were unknown at the time of the OU-1 Remedial Design Report submission. The drawing also includes final surveyed concrete and soil elevations within the excavation.

8.0 ENGINEER'S CERTIFICATION

Remedial Engineering, P.C. has completed this engineering report describing implementation of the remedy within OU-1 at the Amtrak Sunnyside Yard located at 39-29 Honeywell Street in Queens County, New York described in the ROD as Alternative III - Asphalt and Concrete Removal, Soil Excavation, and Off-Site Disposal. This engineering certification is being submitted to the NYSDEC, and Remedial Engineering, P.C. hereby certifies that the OU-1 Remedial Design was implemented, and construction activities were substantially completed in accordance with the intent of the NYSDEC-approved OU-1 Remedial Design Report dated October 8, 1997, and as described in this document.

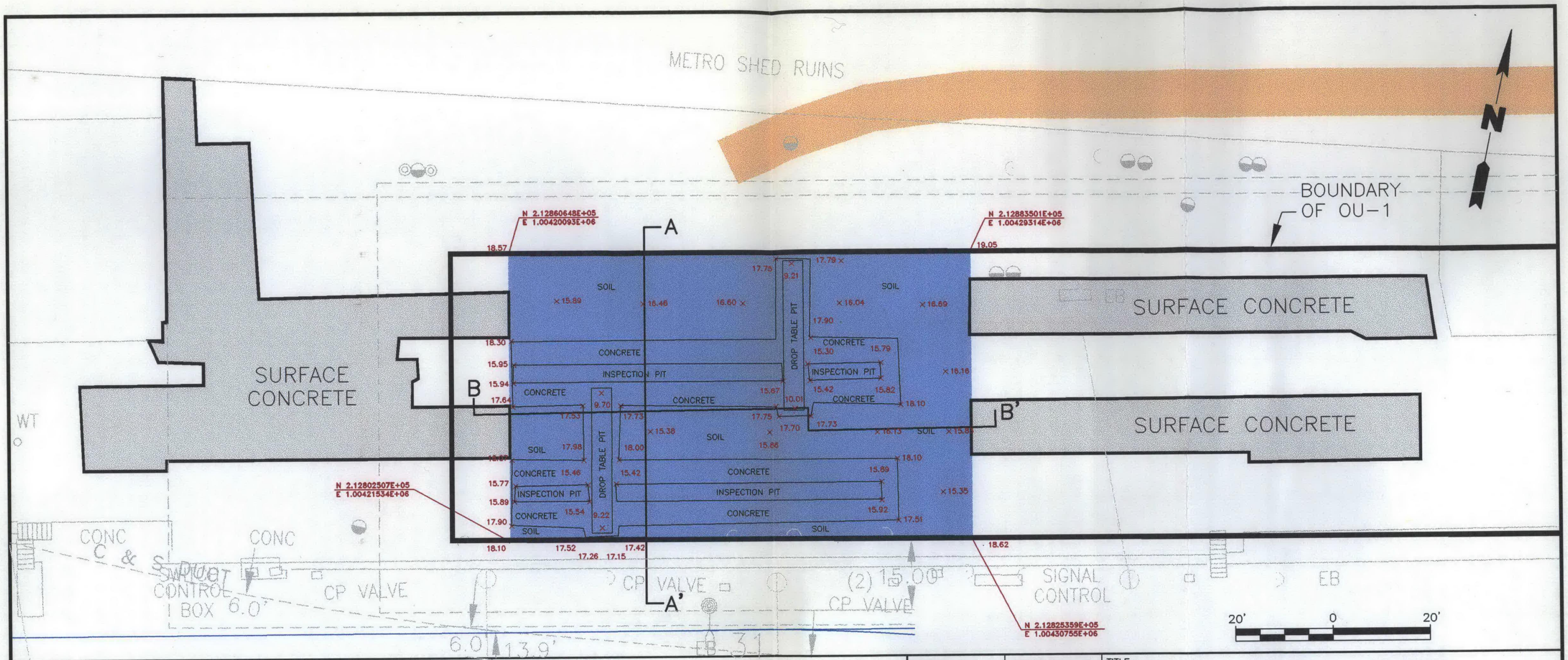
Respectfully Submitted,

ROUX ASSOCIATES, INC.

Joseph D. Duminuco
Principal Hydrogeologist

REMEDIAL ENGINEERING, P.C.

Peter J. Gerbasi, P.E.
Principal Engineer



LEGEND

- TRACKS
- ACCESS ROAD USED BY THE CONTRACTOR
- STAKED LIMIT OF ASPHALT, CONCRETE AND SOIL REMOVAL BASED ON SURVEY PREPARED BY TOPO-METRICS, INC.
- 15.54 × SURVEYED ELEVATION

DESIGNED BY: D.L.	PROJECT No. 05552E05
DRAWN BY: R.K.	DRAWING No. A5216402
CHECKED BY: P.G.	DATE: 2/2/98
APPROVED BY: P.G.	

069238

STATE OF NEW YORK
PETER JOSEPH GERBASI
No. 070446
LICENSED PROFESSIONAL ENGINEER

TITLE:

OPERABLE UNIT 1
SITE MAP
AS-BUILT DRAWING

SUNNYSIDE YARD, QUEENS, NEW YORK

PREPARED FOR: AMTRAK

REMEDIAL ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERS ISLANDIA, N.Y. (516) 232-2600

DRAWING-1

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TABLES

Table 1. Summary of Liquid Disposal Sampling Analytical Results at OU-1, Sunnyside Yard, Queens, New York.

Sample Designation:	**W-1**
Sample Date:	**1/29/98**

PCB Results (µg/L)	
Aroclor-1016	2.0 U
Aroclor-1221	4.0 U
Aroclor-1232	2.0 U
Aroclor-1242	2.0 U
Aroclor-1248	2.0 U
Aroclor-1254	2.0 U
Aroclor-1260	2.0 U
General Chemistry (mg/L)	
Total Organic Halogen	0.416
Reactivity - Cyanide	0.25 U
Reactivity - Sulfide	25 U
Corrosivity (pH Units)	8.06
Ignitability (degrees C)	100 boiled

µg/L - Micrograms per liter
mg/L - Milligrams per liter
U - Compound was analyzed for but not detected

Table 2. Summary of Post-Excavation Soil Sampling Analytical Results at OU-1, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC Recommended Cleanup Level	Sample Designation: N.W. Sample Date: 12/22/97	S.W. 12/19/97	E.W. 12/22/97	W.W. 12/22/97	B.W. 12/19/97	N.B. 12/22/97
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) (µg/kg)							
Benzo(a)anthracene	--	350 U	**79 J**	**31 J**	**960**	**18 J**	**20 J**
Benzo(a)pyrene	--	350 U	**45 J**	390 U	**790**	350 U	370 U
Benzo(b)fluoranthene	--	350 U	**110 J**	**100 J**	**1600**	**28 J**	**40 J**
Benzo(k)fluoranthene	--	350 U	360 U	390 U	360 U	350 U	370 U
Chrysene	--	350 U	**70 J**	**38 J**	**840**	350 U	**20 J**
Dibenzo(a,h)anthracene	--	350 U	360 U	**20 J**	**170 J**	350 U	370 U
Indeno(1,2,3-cd)pyrene	--	350 U	**32 J**	**39 J**	**360 J**	350 U	370 U
Total cPAHs	10,000	0	**336 J**	**228 J**	**4,720 J**	**46 J**	**80 J**

µg/kg - Micrograms per kilogram
U - Compound was analyzed for but not detected
J - Estimated value
Bold - Detections of cPAHs are shown in bold

Table 3. Summary of Post-Excavation Concrete Sampling Analytical Results at OU-1, Sunnyside Yard, Queens, New York.

Sample Designation: / Sample Date:	NYSDEC Recommended Cleanup Level	C-1 12/19/97	C-1DUP 12/19/97	C-2 12/19/97	C-3 12/19/97	C-4 12/19/97
PCBs (µg/kg)						
Aroclor-1016	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1221	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1232	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1242	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1248	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1254	--	**70**	**55**	33 U	33 U	33 U
Aroclor-1260	--	**140**	**140**	**91**	33 U	33 U
Total Aroclors	25,000	**210**	**195**	**91**	0	0
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) (µg/kg)						
Benzo(a)anthracene	--	**38 J**	**98 J**	**91 J**	330 U	330 U
Benzo(a)pyrene	--	**38 J**	**110 J**	**55 J**	330 U	330 U
Benzo(b)fluoranthene	--	**88 J**	**240 J**	**150 J**	**36 J**	**19 J**
Benzo(k)fluoranthene	--	330 U	**48 J**	330 U	330 U	330 U
Chrysene	--	**45 J**	**110 J**	**85 J**	330 U	330 U
Dibenzo(a,h)anthracene	--	330 U	**23 J**	330 U	330 U	330 U
Indeno(1,2,3-cd)pyrene	--	**17 J**	**55 J**	**22 J**	330 U	330 U
Total cPAHs	10,000	**226 J**	**684 J**	**403 J**	**36 J**	**19 J**
Lead (mg/kg)		14.6	27.8	49	17	12

µg/kg - Micrograms per kilogram
mg/kg - Milligrams per kilogram
U - Compound was analyzed for but not detected
J - Estimated value
D - Sample diluted
Bold - Detections of cPAHS and PCBs are shown in bold

Table 3. Summary of Post-Excavation Concrete Sampling Analytical Results at OU-1, Sunnyside Yard, Queens, New York.

	Sample Designation: / Sample Date:	C-5 12/19/97	C-6 12/19/97	C-7 12/19/97	C-8 12/19/97	C-9 12/19/97
	NYSDEC Recommended Cleanup Level					
PCBs (µg/kg)						
Aroclor-1016	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1221	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1232	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1242	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1248	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1254	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1260	--	33 U	33 U	33 U	33 U	33 U
Total Aroclors	25,000	0	0	0	0	0
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) (µg/kg)						
Benzo(a)anthracene	--	330 U	**59 J**	**440**	**72 J**	**77 J**
Benzo(a)pyrene	--	330 U	**41 J**	**170 J**	**77 J**	**22 J**
Benzo(b)fluoranthene	--	330 U	**100 J**	**470**	**170 J**	**290 J**
Benzo(k)fluoranthene	--	330 U	330 U	330 U	330 U	330 U
Chrysene	--	330 U	**56 J**	**340**	**80 J**	**120 J**
Dibenzo(a,h)anthracene	--	330 U	330 U	**27 J**	330 U	**18 J**
Indeno(1,2,3-cd)pyrene	--	330 U	330 U	**50 J**	**31 J**	**39 J**
Total cPAHs	10,000	0	**256 J**	**1,497 J**	**430 J**	**566 J**
Lead (mg/kg)		7	11	10.8	16.1	50

µg/kg - Micrograms per kilogram
mg/kg - Milligrams per kilogram
U - Compound was analyzed for but not detected
J - Estimated value
D - Sample diluted
Bold - Detections of cPAHS and PCBs are shown in bold

Table 3. Summary of Post-Excavation Concrete Sampling Analytical Results at OU-1, Sunnyside Yard, Queens, New York.

	Sample Designation:	C-10	C-11	C-11A	C-11B	C-11C
	Sample Date:	**12/19/97**	**12/19/97**	**3/16/98**	**3/16/98**	**3/16/98**
	NYSDEC Recommended Cleanup Level					
PCBs (µg/kg)						
Aroclor-1016	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1221	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1232	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1242	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1248	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1254	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1260	--	33 U	**13000 DJ**	33 U	33 U	33 U
Total Aroclors	25,000	0	**13,000 DJ**	0	0	0
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) (µg/kg)						
Benzo(a)anthracene	--	**20 J**	**180 J**	NA	NA	NA
Benzo(a)pyrene	--	**15 J**	**55 J**	NA	NA	NA
Benzo(b)fluoranthene	--	**33 J**	**380**	NA	NA	NA
Benzo(k)fluoranthene	--	330 U	330 U	NA	NA	NA
Chrysene	--	**21 J**	**210 J**	NA	NA	NA
Dibenzo(a,h)anthracene	--	330 U	**43 J**	NA	NA	NA
Indeno(1,2,3-cd)pyrene	--	330 U	**88 J**	NA	NA	NA
Total cPAHs	10,000	**89 J**	**956 J**	0	0	0
Lead (mg/kg)		8	29	NA	NA	NA

µg/kg - Micrograms per kilogram
mg/kg - Milligrams per kilogram
U - Compound was analyzed for but not detected
J - Estimated value
D - Sample diluted
Bold - Detections of cPAHS and PCBs are shown in bold

Table 3. Summary of Post-Excavation Concrete Sampling Analytical Results at OU-1, Sunnyside Yard, Queens, New York.

	Sample Designation: / Sample Date:	C-11D 3/16/98	C-11E 3/16/98	C-11F 3/16/98	C-11G 3/16/98	C-12 12/19/97
	NYSDEC Recommended Cleanup Level					
PCBs (µg/kg)						
Aroclor-1016	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1221	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1232	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1242	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1248	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1254	--	33 U	33 U	33 U	33 U	33 U
Aroclor-1260	--	**69**	**54**	33 U	33 U	**99**
Total Aroclors	25,000	**69**	**54**	0	0	**99**
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) (µg/kg)						
Benzo(a)anthracene	--	NA	NA	NA	NA	**89 J**
Benzo(a)pyrene	--	NA	NA	NA	NA	**84 J**
Benzo(b)fluoranthene	--	NA	NA	NA	NA	**170 J**
Benzo(k)fluoranthene	--	NA	NA	NA	NA	330 U
Chrysene	--	NA	NA	NA	NA	**86 J**
Dibenzo(a,h)anthracene	--	NA	NA	NA	NA	**23 J**
Indeno(1,2,3-cd)pyrene	--	NA	NA	NA	NA	**65 J**
Total cPAHs	10,000	0	0	0	0	**517 J**
Lead (mg/kg)		NA	NA	NA	NA	57

µg/kg - Micrograms per kilogram
mg/kg - Milligrams per kilogram
U - Compound was analyzed for but not detected
J - Estimated value
D - Sample diluted
Bold - Detections of cPAHS and PCBs are shown in bold

Table 3. Summary of Post-Excavation Concrete Sampling Analytical Results at OU-1, Sunnyside Yard, Queens, New York.

	Sample Designation:	C-13	C-14
	Sample Date:	12/19/97	12/19/97
	NYSDEC Recommended Cleanup Level		
PCBs (µg/kg)			
Aroclor-1016	--	33 U	33 U
Aroclor-1221	--	33 U	33 U
Aroclor-1232	--	33 U	33 U
Aroclor-1242	--	33 U	33 U
Aroclor-1248	--	33 U	33 U
Aroclor-1254	--	33 U	33 U
Aroclor-1260	--	33 U	33 U
Total Aroclors	25,000	0	0
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) (µg/kg)			
Benzo(a)anthracene	--	**160 J**	**410**
Benzo(a)pyrene	--	**44 J**	**160 J**
Benzo(b)fluoranthene	--	**310 J**	**500**
Benzo(k)fluoranthene	--	330 U	330 U
Chrysene	--	**160 J**	**300 J**
Dibenzo(a,h)anthracene	--	**27 J**	330 U
Indeno(1,2,3-cd)pyrene	--	**59 J**	**72 J**
Total cPAHs	10,000	**760 J**	**1,442 J**
Lead (mg/kg)		195	10.9

µg/kg - Micrograms per kilogram
mg/kg - Milligrams per kilogram
U - Compound was analyzed for but not detected
J - Estimated value
D - Sample diluted
Bold - Detections of cPAHS and PCBs are shown in bold

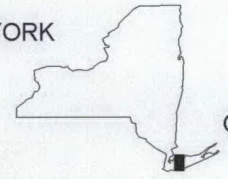
Table 4. Summary of Disposal Sampling Analytical Results of Excavated Soil at OU-1, Sunnyside Yard, Queens, New York.

Sample Designation:		SP-1	SP-2	SP-(1-2)	SP-3	SP-4	SP-(3-4)
Sample Date:	NYSDEC - Recommended Cleanup Level	**12/19/97**	**12/19/97**	**12/19/97**	**12/22/97**	**12/22/97**	**12/22/97**
PCB Results (µg/kg)							
Aroclor-1016	--	150 U	27 U	NA	200 U	18 U	NA
Aroclor-1221	--	420 U	75 U	NA	580 U	50 U	NA
Aroclor-1232	--	240 U	43 U	NA	330 U	29 U	NA
Aroclor-1242	--	150 U	27 U	NA	200 U	18 U	NA
Aroclor-1248	--	180 U	32 U	NA	250 U	22 U	NA
Aroclor-1254	--	210 U	38 U	NA	290 U	25 U	NA
Aroclor-1260	--	4,900	950	NA	4,400 U	24 J	NA
Total Aroclors	25,000	4,900	950	0	0	24 J	0
Toxicity Characteristic Leaching Procedure Leachate Analysis (mg/L)							
Cadmium		NA	NA	0.081	NA	NA	0.068
Chromium		NA	NA	0.022	NA	NA	0.010 U
Lead		NA	NA	0.388	NA	NA	2.18
Oil & Grease (mg/kg)		NA	NA	1,700	NA	NA	3,840

µg/kg - Micrograms per kilogram
mg/kg - Milligrams per kilogram
mg/L - Milligrams per liter
U - Compound was analyzed for but not detected
J - Estimated value
NA - Not analyzed

FIGURES

SOURCE:
CENTRAL PARK AND BROOKLYN, NEW YORK
QUADRANGLE 7.5 MINUTE SERIES (TOPOGRAPHIC)



Title:

YARD LOCATION MAP

SUNNYSIDE YARD
39-29 HONEYWELL STREET
QUEENS, NEW YORK

Prepared For:

AMTRAK

ROUX ASSOCIATES INC
Environmental Consulting & Management

Compiled by:	J.D.	Date:	9/97	FIGURE
Prepared by:	R.R.	Scale:	1"=2,000'	1
Project Mgr:	J.D.	Status:	Final	
File No:	A5214005	Project:	05552E05	

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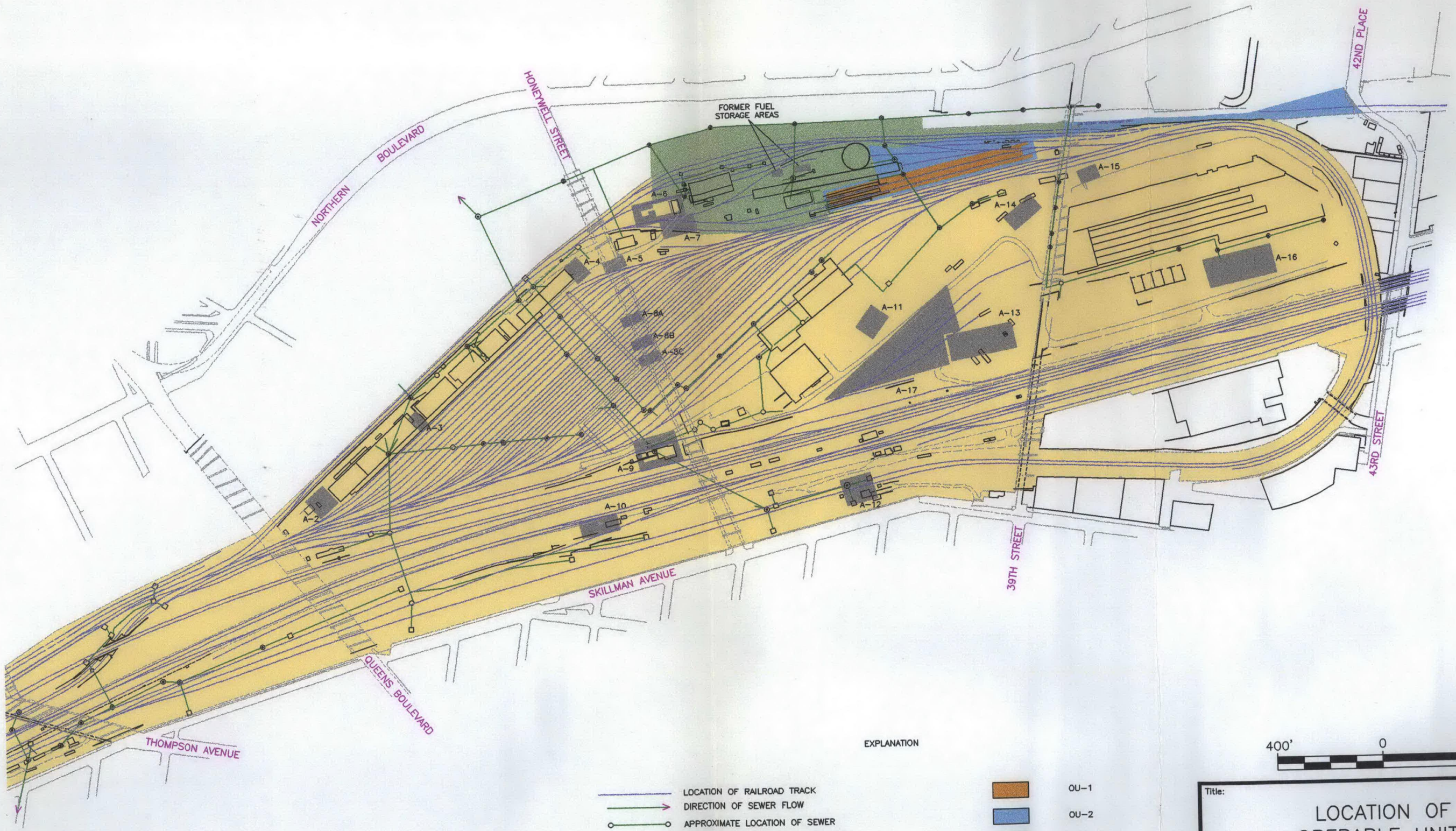

EXPLANATION

- LOCATION OF RAILROAD TRACK
- DIRECTION OF SEWER FLOW
- APPROXIMATE LOCATION OF SEWER
- GRATE COVER CATCH BASIN LOCATION
- SOLID COVER MANHOLE LOCATION
- GRATE COVER MANHOLE LOCATION
- A-2 LOCATION AND DESIGNATION OF PREVIOUSLY DETERMINED AREA OF CONCERN
- APPROXIMATE PROPERTY BOUNDARY

- OU-1
- OU-2
- OU-3
- OU-4
- OU-5

NOTES:

1. LOCATIONS AND DIAMETERS OF SEWER COMPONENTS BASED UPON A REVIEW OF AMTRAK-SUPPLIED ENGINEERING DIAGRAMS AND LIMITED FIELD SURVEY.
2. OU-6, GROUND WATER BENEATH THE YARD, IS NOT SHOWN.

Title:

LOCATION OF OPERABLE UNITS

SUNNYSIDE YARD, QUEENS, NEW YORK

Prepared For: AMTRAK

ROUX ASSOCIATES INC
Environmental Consulting & Management

Compiled by: H.G.	Date: 4/97	FIGURE
Prepared by: R.K.	Scale: AS SHOWN	2
Project Mgr: H.G.	Status: FINAL	
File No: 52119005	Project: 05552Y03	

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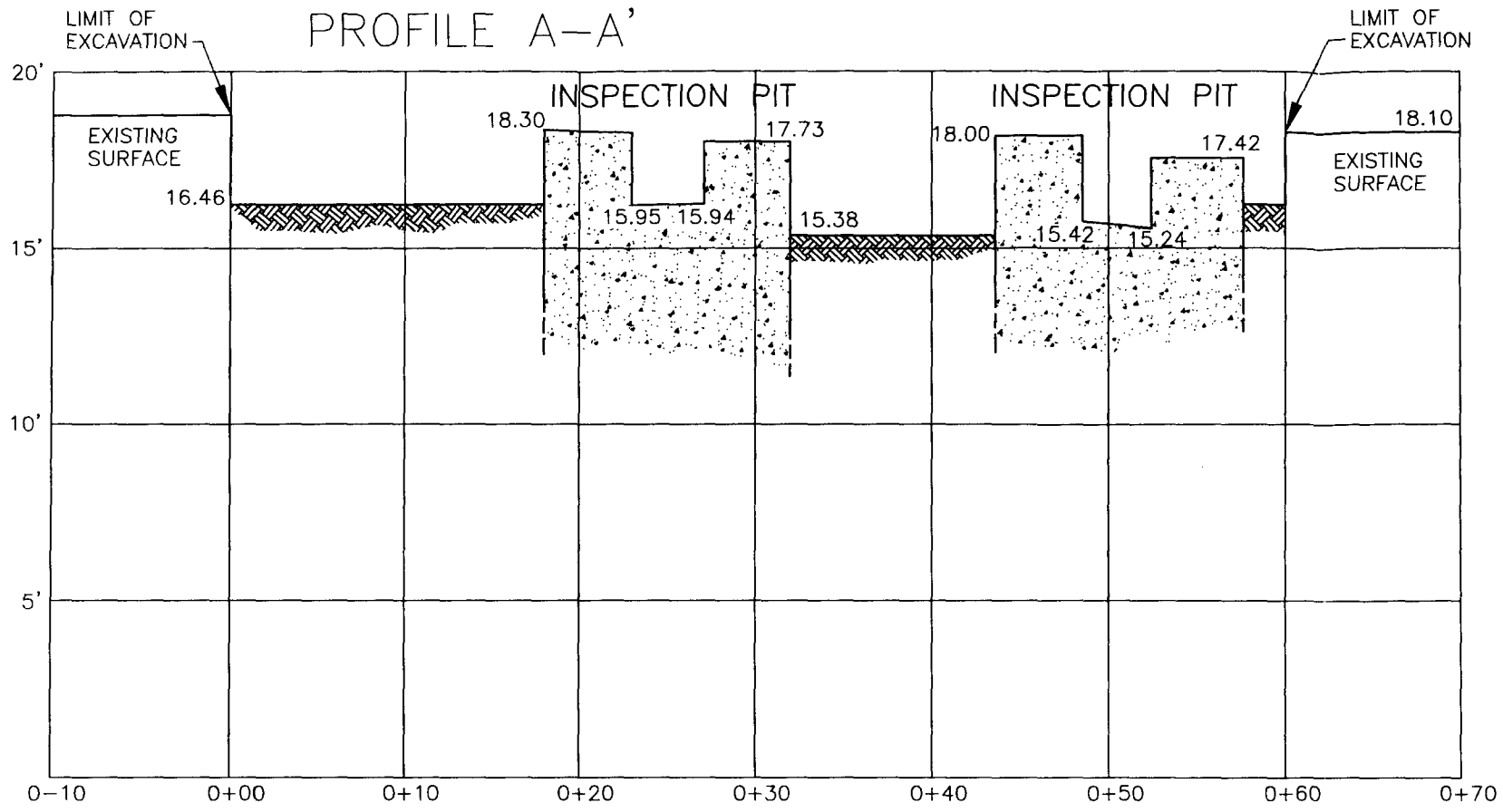

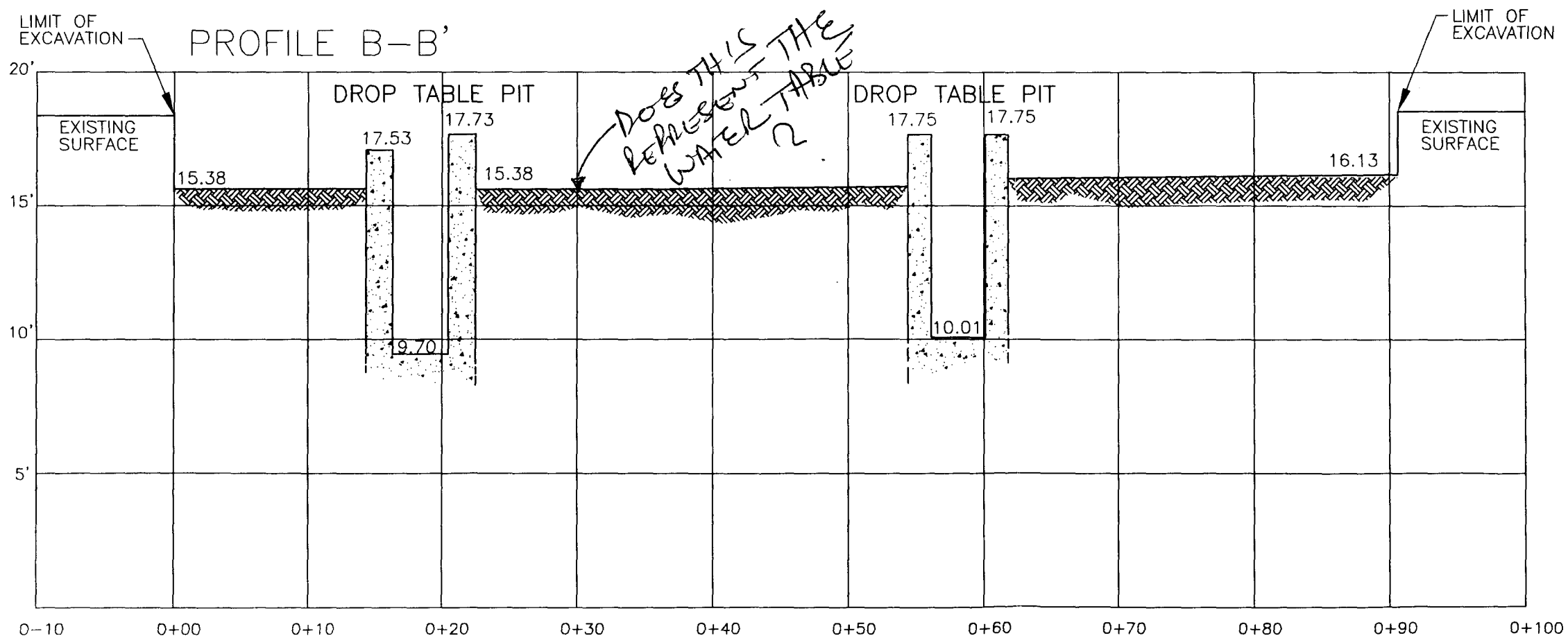

SCALE
VERTICAL: 1"=5'
HORIZONTAL: 1"=10'

LEGEND

CONCRETE STRUCTURES

EXISTING SOIL

NOTE:

1. LOCATION OF EXCAVATION PROFILES ARE REPRESENTED ON DRAWING 1.
2. EXCAVATION DEPTHS BASED ON SURVEY PREPARED BY TOPO–METRICS, INC.

Title:

EXCAVATION DEPTHS

SUNNYSIDE YARD, QUEENS, NEW YORK

Prepared For:
AMTRAK

REMEDIAL ENGINEERING, P.C. *ENVIRONMENTAL ENGINEERS*	Compiled by: J.P.	Date: 3/98	FIGURE 3
	Prepared by: R.K.	Scale: As Shown	
	Project Mgr: J.D.D.	Status: FINAL	
	File No: A5214005	Project: 05552E05	

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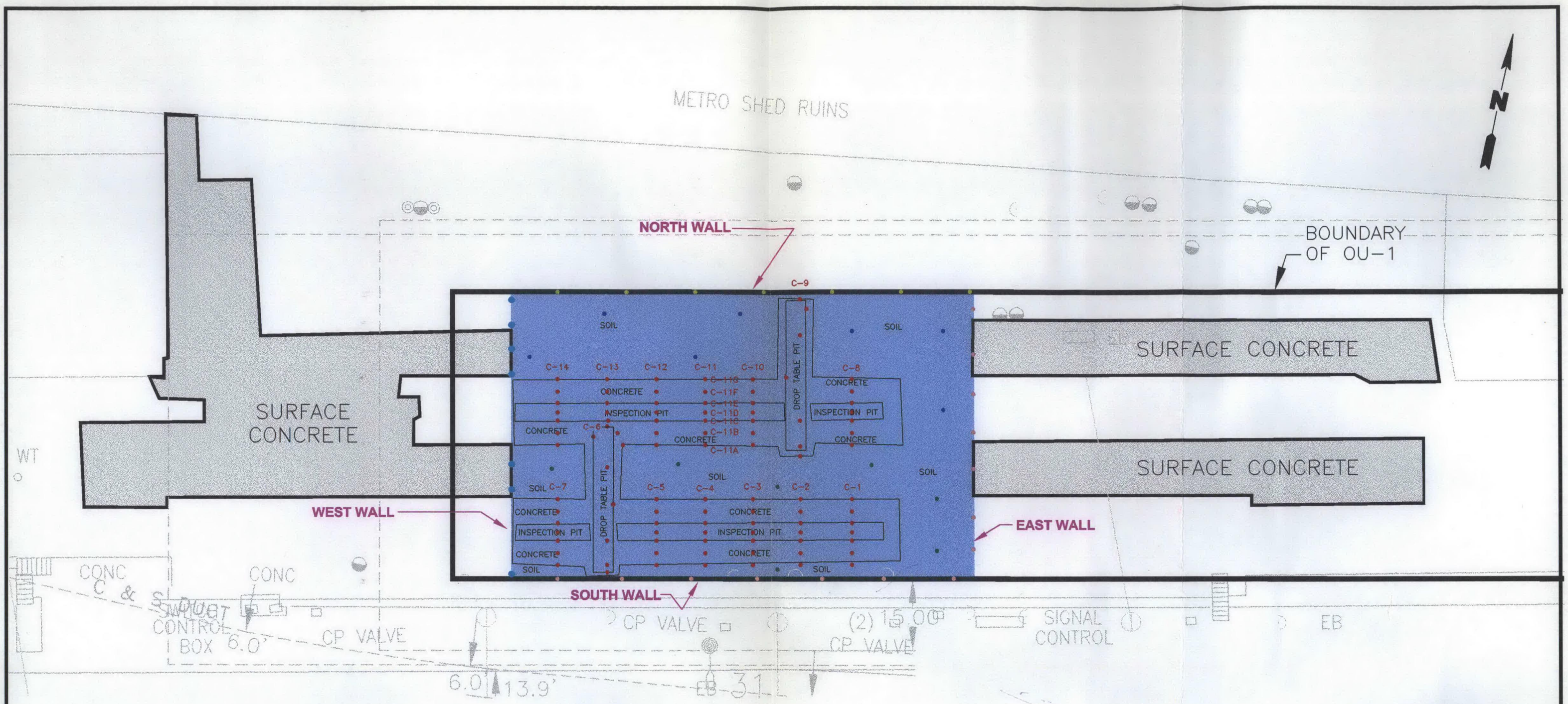


LEGEND

- SOIL GRAB SAMPLE LOCATION–NORTH WALL COMPOSITE
- SOIL GRAB SAMPLE LOCATION–EAST WALL COMPOSITE
- SOIL GRAB SAMPLE LOCATION–SOUTH WALL COMPOSITE
- SOIL GRAB SAMPLE LOCATION–WEST WALL COMPOSITE
- SOIL GRAB SAMPLE LOCATION–NORTH BOTTOM COMPOSITE
- SOIL GRAB SAMPLE LOCATION–SOUTH BOTTOM COMPOSITE

C-5 CONCRETE COMPOSITE SAMPLE DESIGNATION

• DISCRETE CONCRETE CHIP SAMPLE LOCATION

C-11A • ADDITIONAL CONCRETE CHIP SAMPLE LOCATION AND DESIGNATION (RESAMPLE C-11 LOCATIONS FOR PCBs ONLY)

LIMIT OF ASPHALT, CONCRETE AND SOIL REMOVAL BASED ON SURVEY PREPARED BY TOPO-METRICS, INC.

NOTES:

EACH COMPOSITE SOIL SAMPLE CONSISTS OF CO-MINGLED SOIL FROM SEVEN DISCRETE GRAB LOCATIONS

EACH COMPOSITE CONCRETE SAMPLE CONSISTS OF CO-MINGLED CONCRETE CHIPS FROM SEVEN DISCRETE LOCATIONS, ONE FROM EACH EXPOSED CONCRETE FACE

20' 0 20'

Title:

SOIL AND CONCRETE POST-EXCAVATION SAMPLE LOCATIONS

SUNNYSIDE YARD, QUEENS, NEW YORK

Prepared For: AMTRAK

REMEDIAL ENGINEERING, P.C. *ENVIRONMENTAL ENGINEERS*

Compiled by: D.L.	Date: 3/98	FIGURE
Prepared by: G.M.	Scale: As Shown	4
Project Mgr: P.G.	Status: FINAL	
File No: A5216404	Project: 05552E05	

APPENDICES

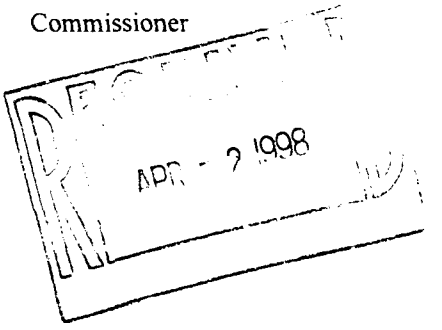
APPENDIX A

APPENDIX A

March 31, 1998 NYSDEC Letter to Roux Associates, Inc. and
April 6, 1998 Letter to the NYSDEC

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-40 21st Street
Long Island City, New York 11101
(718) 482-4995 Fax: (718) 482-6358

John P. Cahill
Commissioner



March 31, 1998

Mr. Joseph Duminuco
Principal Hydrogeologist
Roux Associates, Inc.
1377 Motor Parkway
Islandia, New York 11788

Re: Amtrak, Sunnyside Yard, Queens, New York Work Plan
Operable Unit 1 Remedial Design Completion Report

Dear Mr. Duninuco:

The Department has completed its review of the above referenced report, and has a few questions and concerns that must be resolved before the Report can be accepted by the Department. These are as follows:

1. The Record of Decision for OU 1 called for excavation of PAHs contaminated soils down to water table in a 95 ft. X 60 ft. area within the foot-print of the proposed High Speed Trainset Facility (HSTF) building. Prior to the commencement of fieldwork, the Department was not aware of the presence of any subsurface inspection pits and drop pits in this area. These pits, we understand, were excavated and cleaned to their concrete base. The cleanup involved excavation of saturated soils down to 8 ft. below surface and removal of 2450 gallons of contaminated water, both of which were found to be non-hazardous wastes. Since none of this work was planned or even anticipated, the Department would like the Report to clarify the following for the record:

   i) What was the past use of these pits, and during what period were these pits in operation?
   ii) When and why were these pits abandoned in place?
   iii) The Report indicates that these pits were anticipated, why were then these pits not investigated during the Phase I or the Phase II RI, or as part of the OU 1 focused investigation?
   iv) Was there ever a known problem of oil and/ or PCBs seeping into these pits, like the problem that existed in the Engine House pit or the Metro Shop pit?
   v) Please discuss how many other pits existed at any time.

2. Please provide a map of sampling locations for all chip and soil sampling.

3. Please provide results of the recent confirmatory chip sampling.

4. Please provide the Land Surveyor's certification as to the surveyed locations.

5. Please include a sketch of the buried sewer pipe traversing the footprint of OU 1, show sampling locations, and include and discuss sampling results.

6. As we discussed, the title of the Report is a misnomer. We suggest calling it "Operable Unit 1 Remedial Action Report" would be more appropriate.

A quick resolution of the above comments and concerns will greatly expedite the Department's acceptance of the above referenced Report. If you have any questions, please contact me at 718 - 482-4909 or Mr. Richard Gardineer at 718 - 482- 4895 immediately.

Sincerely,

Hari O. Agrawal, P.E.
Environmental Engineer

CC: Rosalie Rusinko
Richard Gardineer / file
Sal Ervolina, DER, Albany, 7010
Steve Bates, NYSDOH, Albany

REMEDIAL ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERS

1377 MOTOR PARKWAY
SUITE 403
ISLANDIA, NEW YORK 11788
TEL (516) 232-2600
FAX (516) 232-9898

April 6, 1998

Hari O. Agrawal, P.E.
Environmental Engineer
New York State Department of Environmental Conservation
47-40 21st Street
Long Island City, New York 11101

Re: Response to the NYSDEC's March 31, 1998 Letter Regarding the Operable Unit 1 Remedial Design Completion Report
Sunnyside Yard, Queens, New York

Dear Mr. Agrawal:

Roux Associates, Inc., on behalf of Amtrak, has reviewed the New York State Department of Environmental Conservation's (NYSDEC) March 31, 1998 letter to Joseph Duminuco of Roux Associates regarding the Operable Unit 1 Remedial Design Completion Report. This letter presents Amtrak's responses to the NYSDEC's comments. The format of this response letter consists of the NYSDEC's comment in italicized text, followed by Amtrak's response in standard text format. If you are in agreement with the responses in this letter we will incorporate them into the Completion Report and forward it to you immediately.

1. *The Record of Decision for OU-1 called for excavation of PAHs contaminated soils down to water table in a 95 ft. X 60 ft. area within the foot-print of the proposed High Speed Trainset Facility (HSTF) building. Prior to the commencement of fieldwork, the Department was not aware of the presence of any subsurface inspection pits and drop pits in this area. These pits, we understand, were excavated and cleaned to their concrete base. The cleanup involved excavation of saturated soils down to 8 ft. below surface and removal of 2450 gallons of contaminated water, both of which were found to be non-hazardous wastes. Since none of this work was planned or even anticipated, the Department would like the Report to clarify the following for the record.*

It is important to note that at least three documents reviewed by the NYSDEC before the commencement of the OU-1 remediation discussed the existence of the inspection pits. These documents include the Phase 2 Environmental Site Assessment Report, the OU-1 Feasibility Study Report, and the Remedial Design Report (RDR). A review of historical information did not document the existence of the droptable pits.

The NYSDEC's letter indicated that they understood the pits to contain saturated soil down to 8 feet below land surface, and 2450 gallons of contaminated water. It is important to note that the saturated soil was a result of surface runoff, not ground-water seepage and was only found in the deeper droptable pits. Once pumping of the droptable pits was accomplished, seepage of ground water did not occur. In addition, analysis of the water for disposal parameters did not detect any contamination. Off-site disposal of the clean dewatering effluent was performed to avoid any delays that might have resulted from seeking discharge to sewer approvals from NYSDEC and the New York City Department of Environmental Protection (NYCDEP).

The NYSDEC's letter also required clarification of the following five issues relating to the pits in OU-1:

i) *What was the past use of these pits, and during what period were these pits in operation?*

Historically, the performance of service and inspection (S&I) of railroad equipment at the Yard occurred in both the inspection and droptable pits. The function of the droptable pits was for changing the trucks (the wheel assembly) of railroad equipment. A determination of the period of use of the pits could not be made since there is no documentation of the start-up date. Only one of the inspection/droptable pits was in operation when Amtrak acquired the property in 1976.

ii) *When and why were these pits abandoned in place?*

Apparently, one inspection/droptable pit was abandoned prior to 1976. Abandonment of the remaining pit occurred in 1985 because it was no longer needed as a result of the construction of a new indoor running repair building on the south side of the Yard. Abandonment in place was the most economical option since the pits were of sufficient structural integrity for the intended future use (i.e., storage tracks).

iii) *The Report indicates that these pits were anticipated, why then were these pits not investigated during the Phase I or the Phase II RI, or as part of the OU-1 focused investigation?*

The RI/FS process at the Yard commenced in 1990 and followed a NYSDEC-approved work plan. A review of historical information, aerial photo reviews and interviews with Yard personnel, determined 16 Areas of Concern (AOCs). Initial observations resulted in identification of a 17th AOC. As it is impractical to investigate every portion of any site, our efforts focused on the AOCs but contained other facility-wide sampling as well. There was no indication during scoping or initial field

observations by Roux Associates or the NYSDEC representative that these pits were AOCs. As stated in the RDR, the location of soil boring HST-2 was within one of the pits and the locations of several others were in the immediate vicinity of the pits.

iv) *Was there ever a known problem of oil and/or PCBs seeping into these pits, like the problem that existed in the Engine House pit or the Metro Shop pit?*

There is no evidence of known or suspected releases in these pits. In contrast to the Engine House and Metro Shop pits, the pits in OU-1 are located outside the separate-phase petroleum accumulation were also observed during the remediation to be water-tight. In addition, the soil and stormwater removed from the pits in OU-1 did not display evidence of petroleum compounds.

v) *Please discuss how many other pits existed at any time.*

Amtrak knows of no other pits in OU-1.

2. *Please provide a map of sampling locations for all chip and soil sampling.*

The revised report will include a map of concrete chip and soil sampling locations.

3. *Please provide results of the recent confirmatory chip sampling.*

The revised report will also include the results of recent confirmatory concrete chip samples.

4. *Please provide the Land Surveyor's certification as to the surveyed locations.*

The revised report will include the Land Surveyor's certification.

5. *Please include a sketch of the buried sewer pipe traversing the footprint of OU 1, show sampling locations, and include and discuss sampling results.*

As we discussed, due to the time-critical relationship between the completion of this report and the loan closing date on May 1, 1998, Amtrak considers the sewer pipe beneath the footprint of OU-1 a separate issue and will be submitting a letter report to the NYSDEC relating to that issue shortly.

6. *As we discussed, the title of the Report is a misnomer. We suggest calling it "Operable Unit 1 Remedial Action Report" would be more appropriate.*

The "Operable Unit 1 Remedial Action Report" will be the new title.

We appreciate your prompt attention to the initial review and trust that the responses presented above are to the NYSDEC's satisfaction and will result in an expedited approval of the report. If you have any questions or require additional information, please call.

Sincerely,

ROUX ASSOCIATES, INC.

Joseph D. Duminuco
Principal Hydrogeologist

REMEDIAL ENGINEERING, P.C.

Peter J. Gerbasi, P.E.
Principal Engineer

cc: R. Gardineer, P.E., NYSDEC
R. Rusinko, Esq., NYSDEC
S. Ervolina, P.E., NYSDEC
S. Bates, NYSDOH
J. Matthews, Amtrak
R. Mohlenhoff, P.E., Amtrak
C. Warren, Esq., Robinson, Silverman, et al
C. Rosenthal, Esq., Kalkines, Arky et al.

APPENDIX B

APPENDIX B

December 18, 1997 Letter to the NYSDEC

REMEDIAL ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERS

1377 MOTOR PARKWAY
SUITE 403
ISLANDIA, NEW YORK 11788
TEL (516) 232-2600
FAX (516) 232-9898

December 18, 1997

Richard Gardineer, P.E.
Regional Remediation Engineer
New York State Department of Environmental Conservation
47-40 21st Street
Long Island City, New York 11101

Re: Operable Unit 1 Remedial Design Report
Sunnyside Yard, Queens, New York

Dear Mr. Gardineer:

Roux Associates, Inc. and Remedial Engineering, P.C., on behalf of the National Railroad Passenger Corporation (Amtrak), is writing this letter to notify you of a site condition which we believe represents a significant change to the remedial design currently being implemented as part of the Operable Unit 1 (OU-1) remedial action at the Sunnyside Yard (Yard). The condition that we have identified involves two large concrete channels that run through the OU-1 excavation area. It is our intention to leave these channels in place within OU-1 due to their large size (approximately 10 feet across by 4 feet deep) and the significant time delay and expense that Amtrak would incur should their removal be necessary.

Several factors that we have identified during the excavation activities support our request. These include:

- the channels extend into the water table, and no OU-1 soils exist beneath them;
- the material within the channels has been completely excavated within the OU-1 area;
- the channels are intact and were not found to have visible staining or other signs of contamination.

We acknowledge that Section 2.4 of the Operable Unit 1 Remedial Design Report states that if subsurface concrete is encountered, the Contractor would be directed to remove and stage this material prior to its disposal off-site. It must be noted, however, that our intent in this regard was to remove and dispose of any concrete that was contaminated, or prevented us from excavating contaminated soils, specifically, those soils within the unsaturated zone and any grossly contaminated soils within the

saturated zone. One additional point is that the subject soils below these channels are saturated while the surrounding soils are clean in appearance, therefore, any residual contamination would be addressed by OU-6 at the site.

We hope that this letter will allow the NYSDEC to approve our request to leave these channels in place. If necessary, we will have our field staff show you the area so that you may verify the site conditions. Furthermore, as you requested, we are preparing a sampling plan for concrete chip samples from each channel which will be submitted to you under separate cover.

Please call if you have any questions or comments.

Sincerely,

REMEDIAL ENGINEERING, P.C.

Peter J. Gerbasi

Peter J. Gerbasi, P.E.
Principal Engineer

ROUX ASSOCIATES, INC.

Joseph D. Duminuco
Principal Hydrogeologist

cc: H. Agrawal, NYSDEC
R. Mohlenhoff, P.E., Amtrak
C. Warren, Esq., Robinson, et al.
H. Gregory, Roux Associates, Inc.

APPENDIX C

APPENDIX C

December 19, 1997 Letter to the NYSDEC

REMEDIAL ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERS

1377 MOTOR PARKWAY
SUITE 403
ISLANDIA, NEW YORK 11788
TEL (516) 232-2600
FAX (516) 232-9898

December 19, 1997

Richard Gardineer, P.E.
Regional Remediation Engineer
New York State Department of Environmental Conservation
47-40 21st Street
Long Island City, New York 11101

Re: Protocol for Concrete Chip Samples in Operable Unit 1, Sunnyside Yard, Queens, New York

Dear Mr. Gardineer:

Roux Associates, Inc. and Remedial Engineering, P.C., on behalf of the National Railroad Passenger Corporation (Amtrak), has prepared the following protocols to collect concrete samples from two existing concrete channels located in the excavation area of Operable Unit 1 (OU-1), Sunnyside Yard, Queens, New York. As described in the December 18, 1997 correspondence from Remedial Engineering, P.C., these channels are intact and were not found to have visible staining or other signs of contamination.

The protocols described below include only the collection of concrete chip samples from the existing concrete channels. The guidelines and procedures for field and laboratory personnel to be followed to verify that the field activities undertaken are of sufficient quality (i.e., decontamination, sample custody and handling, etc.) are included in the approved "General Sampling And Analysis Plan to Support High Speed Trainset Facility Activities In Operable Unit 4" (August 6, 1997).

Concrete chip samples will be collected at 10 feet intervals in each of the two concrete channels (including the two drop pits). The concrete channels are approximately 10 feet wide by 4 feet deep and 70 feet long. The initial excavation into these channels will result in some of the concrete being removed; therefore, it is estimated that composite samples will be collected from six locations (every 10 feet) in each of the two channels, resulting in 12 composite samples submitted for analysis. The composite samples will be derived from seven sample points (each face) at every sampling location.

The chip samples will be collected using a decontaminated hammer or chisel. An effort will be made to avoid scattering pieces out of the sampling area boundary. The area will be chipped to approximately 1/8 inch and placed directly into the sample bottle. The composite samples will be homogenized in the laboratory.

The laboratory analyses will be performed by a certified laboratory using the NYSDEC Analytical Services Protocols (ASP). Samples will be analyzed for polycyclic aromatic hydrocarbons (PAHs) using ASP 95-2, polychlorinated biphenyls (PCBs) using ASP 95-3, and lead (ILMO4.0). Quality control samples, consisting of one field duplicate per 20 samples collected, will be submitted for analysis. Matrix spike (MS)/ matrix spike duplicate (MSD)/matrix spike blanks (MSB) will not be collected based on the concrete matrix; however the laboratory mandated MS/MSD/MSB may be used for data evaluation purposes.

Upon completion of the field investigation, Roux Associates will submit a report which presents the data and includes our findings and recommendations regarding the sample results.

Should you have any comments or questions, please do not hesitate to call.

Sincerely,

ROUX ASSOCIATES, INC.

Joseph D. Duminuco
Principal Hydrogeologist

REMEDIAL ENGINEERING, P.C.

Peter J. Gerbasi, P.E.
Principal Engineer

APPENDIX D

APPENDIX D

Liquid Disposal Characterization
Sampling Data Package

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
FEBRUARY 4, 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 282486
Client: ROUX ASSOCIATES, INC.
Sample source: AMTRAK SUNNY SIDE/05552Y05
Sample ID: AMTRAK W-1
Sample date: 01/29/98
Sampled by: Customer
At lab date: 02/02/98
Matrix: AQUEOUS

Batch #:	QPC7521	Column used:	DB 1701/DB 608
Extraction date:	02/03/98	Analysis date:	02/04/98
Weight/Volume:	500ml	Final Volume:	10ml
Dilution Factor:	1		

ANALYTE NAME	RESULT UG/L	METHOD BLANK RESULT UG/L	PRACTICAL QUANTITATION LIMIT UG/L	MINIMUM DETECTION LIMIT UG/L
Aroclor-1016	U	U	2.0	1.0
Aroclor-1221	U	U	4.0	2.8
Aroclor-1232	U	U	2.0	1.6
Aroclor-1242	U	U	2.0	1.0
Aroclor-1248	U	U	2.0	1.2
Aroclor-1254	U	U	2.0	1.4
Aroclor-1260	U	U	2.0	1.6

UG/L = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.

DAV

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/l (ppm) unless otherwise stated.

Lab Number: 282486
Client: ROUX ASSOCIATES, INC.
Sample Source: AMTRAK SUNNY SIDE
Sample ID: AMTRAK W-1
Sample matrix: LIQUID (AQUEOUS)
Sample date: 01/29/98
Sampled by: Customer
At lab date: 02/02/98

PARAMETER	DILUTION FACTOR	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT	ANALYSIS DATE
Total Organic Halogen (TOX) as Cl	5	0.416	U	0.010	02/03/98

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.

ROB

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
973-584-0330
FEBRUARY 4, 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY ANALYSIS

Lab Number: 282486
Client: ROUX ASSOCIATES, INC.
Sample Source: AMTRAK SUNNY SIDE
Sample ID: AMTRAK W-1
Sampling Date: 01/29/98
Sampled by: Customer
At Lab Date: 02/02/98

Percent Moisture = 100%

REACTIVITY

Results reported in mg/kg wet weight basis.
Only the cyanide or sulfide gases released under test conditions are measured.

Parameter	Result	MDL	Method Blank	Analysis Date	Dilution Factor	Limit
Cyanide:	U*	0.25	U	02/03/98	1	250mg HCN/kg
Sulfide:	U*	25	U	02/03/98	1	500mg H2S/kg

* = Sample does not exhibit characteristics of Cyanide or Sulfide reactivity

CORROSIVITY (Measured in pH units)

Result	Analysis Date
8.06	02/03/98

IGNITABILITY

Flash point by Pensky Martens Closed Cup.

Result	Analysis Date: 02/03/98
Sample did not flash. Sample boiled @ 100 C	

U= Not detected

INDUSTRIAL CORROSION MANAGEMENT, Inc.
Thomas Mancuso, Lab Mgr.

ROB

APPENDIX E

APPENDIX E

Post-Excavation Soil Sampling Data Package

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-W

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279875

Sample wt/vol: 30.05 (g/ml) G Lab File ID: J1869.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 5.89 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/30/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.39

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	350	U
91-57-6	2-Methylnaphthalene	350	U
208-96-8	Acenaphthylene	350	U
83-32-9	Acenaphthene	350	U
132-64-9	Dibenzofuran	350	U
86-73-7	Fluorene	350	U
85-01-8	Phenanthrene	22	J
120-12-7	Anthracene	350	U
206-44-0	Fluoranthene	32	J
129-00-0	Pyrene	28	J
56-55-3	Benzo[a]anthracene	18	J
218-01-9	Chrysene	350	U
205-99-2	Benzo[b]fluoranthene	28	J
207-08-9	Benzo[k]fluoranthene	350	U
50-32-8	Benzo[a]pyrene	350	U
193-39-5	Indeno[1,2,3-cd]pyrene	350	U
53-70-3	Dibenz[a,h]anthracene	350	U
191-24-2	Benzo[g,h,i]perylene	350	U

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

E-W

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 280000

Sample wt/vol: 30.33 (g/ml) G Lab File ID: J1870.D

Level: (low/med) LOW Date Received: 12/23/97

% Moisture: 16.31 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/30/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.58

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	390	U
91-57-6	2-Methylnaphthalene	390	U
208-96-8	Acenaphthylene	390	U
83-32-9	Acenaphthene	390	U
132-64-9	Dibenzofuran	390	U
86-73-7	Fluorene	390	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
206-44-0	Fluoranthene	34	J
129-00-0	Pyrene	31	J
56-55-3	Benzo[a]anthracene	31	J
218-01-9	Chrysene	38	J
205-99-2	Benzo[b]fluoranthene	100	J
207-08-9	Benzo[k]fluoranthene	390	U
50-32-8	Benzo[a]pyrene	390	U
193-39-5	Indeno[1,2,3-cd]pyrene	39	J
53-70-3	Dibenz[a,h]anthracene	20	J
191-24-2	Benzo[g,h,i]perylene	41	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

N-B

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 280003

Sample wt/vol: 30.23 (g/ml) G Lab File ID: J1873.D

Level: (low/med) LOW Date Received: 12/23/97

% Moisture: 10.38 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/30/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.75

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	370	U
91-57-6	2-Methylnaphthalene	370	U
208-96-8	Acenaphthylene	370	U
83-32-9	Acenaphthene	370	U
132-64-9	Dibenzofuran	370	U
86-73-7	Fluorene	370	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
206-44-0	Fluoranthene	38	J
129-00-0	Pyrene	40	J
56-55-3	Benzo[a]anthracene	20	J
218-01-9	Chrysene	20	J
205-99-2	Benzo[b]fluoranthene	40	J
207-08-9	Benzo[k]fluoranthene	370	U
50-32-8	Benzo[a]pyrene	370	U
193-39-5	Indeno[1,2,3-cd]pyrene	370	U
53-70-3	Dibenz[a,h]anthracene	370	U
191-24-2	Benzo[g,h,i]perylene	370	U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

N-W

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 280001

Sample wt/vol: 30.43 (g/ml) G Lab File ID: J1871.D

Level: (low/med) LOW Date Received: 12/23/97

% Moisture: 6.29 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/30/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	350	U
91-57-6	2-Methylnaphthalene	350	U
208-96-8	Acenaphthylene	350	U
83-32-9	Acenaphthene	350	U
132-64-9	Dibenzofuran	350	U
86-73-7	Fluorene	350	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
56-55-3	Benzo[a]anthracene	350	U
218-01-9	Chrysene	350	U
205-99-2	Benzo[b]fluoranthene	350	U
207-08-9	Benzo[k]fluoranthene	350	U
50-32-8	Benzo[a]pyrene	350	U
193-39-5	Indeno[1,2,3-cd]pyrene	350	U
53-70-3	Dibenz[a,h]anthracene	350	U
191-24-2	Benzo[g,h,i]perylene	350	U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-W

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279874

Sample wt/vol: 30.11 (g/ml) G Lab File ID: J1868.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 6.62 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/30/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	360	U
91-57-6	2-Methylnaphthalene	360	U
208-96-8	Acenaphthylene	360	U
83-32-9	Acenaphthene	360	U
132-64-9	Dibenzofuran	360	U
86-73-7	Fluorene	360	U
85-01-8	Phenanthrene	100	J
120-12-7	Anthracene	28	J
206-44-0	Fluoranthene	180	J
129-00-0	Pyrene	150	J
56-55-3	Benzo[a]anthracene	79	J
218-01-9	Chrysene	70	J
205-99-2	Benzo[b]fluoranthene	110	J
207-08-9	Benzo[k]fluoranthene	360	U
50-32-8	Benzo[a]pyrene	45	J
193-39-5	Indeno[1,2,3-cd]pyrene	32	J
53-70-3	Dibenz[a,h]anthracene	360	U
191-24-2	Benzo[g,h,i]perylene	33	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W-W

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 280002

Sample wt/vol: 30.13 (g/ml) G Lab File ID: J1872.D

Level: (low/med) LOW Date Received: 12/23/97

% Moisture: 8.77 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/30/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.39

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	280	J
91-57-6	2-Methylnaphthalene	200	J
208-96-8	Acenaphthylene	110	J
83-32-9	Acenaphthene	410	
132-64-9	Dibenzofuran	250	J
86-73-7	Fluorene	390	
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	430	
206-44-0	Fluoranthene	600	
129-00-0	Pyrene	1300	
56-55-3	Benzo[a]anthracene	960	
218-01-9	Chrysene	840	
205-99-2	Benzo[b]fluoranthene	1600	
207-08-9	Benzo[k]fluoranthene	360	U
50-32-8	Benzo[a]pyrene	790	
193-39-5	Indeno[1,2,3-cd]pyrene	360	J
53-70-3	Dibenz[a,h]anthracene	170	J
191-24-2	Benzo[g,h,i]perylene	300	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W-WRE

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 280002RE

Sample wt/vol: 30.13 (g/ml) G Lab File ID: J2021.D

Level: (low/med) LOW Date Received: 12/23/97

% Moisture: 8.77 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/10/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.39

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	270	J
91-57-6	2-Methylnaphthalene	190	J
208-96-8	Acenaphthylene	110	J
83-32-9	Acenaphthene	410	
132-64-9	Dibenzofuran	250	J
86-73-7	Fluorene	360	J
85-01-8	Phenanthrene	820	
120-12-7	Anthracene	970	
206-44-0	Fluoranthene	750	
129-00-0	Pyrene	2200	
56-55-3	Benzo[a]anthracene	1700	
218-01-9	Chrysene	1700	
205-99-2	Benzo[b]fluoranthene	1800	
207-08-9	Benzo[k]fluoranthene	360	U
50-32-8	Benzo[a]pyrene	720	
193-39-5	Indeno[1,2,3-cd]pyrene	430	
53-70-3	Dibenz[a,h]anthracene	210	J
191-24-2	Benzo[g,h,i]perylene	410	

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK32

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: SBLK32

Sample wt/vol: 30.03 (g/ml) G Lab File ID: J1867.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/30/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	330	U
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
205-99-2	Benzo[b]fluoranthene	330	U
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK36

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: SBLK36

Sample wt/vol: 30.01 (g/ml) G Lab File ID: J1874.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/30/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	330	U
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
205-99-2	Benzo[b]fluoranthene	330	U
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E-WMS

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 280000MS

Sample wt/vol: 30.01 (g/ml) G Lab File ID: J1911.D

Level: (low/med) LOW Date Received: 12/23/97

% Moisture: 16.31 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/04/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.58

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	400	U
91-57-6	2-Methylnaphthalene	400	U
208-96-8	Acenaphthylene	400	U
83-32-9	Acenaphthene	1800	
132-64-9	Dibenzofuran	400	U
86-73-7	Fluorene	400	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	2000	
56-55-3	Benzo[a]anthracene	59	J
218-01-9	Chrysene	72	J
205-99-2	Benzo[b]fluoranthene	290	J
207-08-9	Benzo[k]fluoranthene	400	U
50-32-8	Benzo[a]pyrene	100	J
193-39-5	Indeno[1,2,3-cd]pyrene	55	J
53-70-3	Dibenz[a,h]anthracene	29	J
191-24-2	Benzo[g,h,i]perylene	47	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E-WMSD

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 280000MSD

Sample wt/vol: 30.09 (g/ml) G Lab File ID: J1912.D

Level: (low/med) LOW Date Received: 12/23/97

% Moisture: 16.31 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/04/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.58

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	400	U
91-57-6	2-Methylnaphthalene	400	U
208-96-8	Acenaphthylene	400	U
83-32-9	Acenaphthene	1800	
132-64-9	Dibenzofuran	400	U
86-73-7	Fluorene	400	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	1900	
56-55-3	Benzo[a]anthracene	27	J
218-01-9	Chrysene	35	J
205-99-2	Benzo[b]fluoranthene	99	J
207-08-9	Benzo[k]fluoranthene	400	U
50-32-8	Benzo[a]pyrene	29	J
193-39-5	Indeno[1,2,3-cd]pyrene	400	U
53-70-3	Dibenz[a,h]anthracene	400	U
191-24-2	Benzo[g,h,i]perylene	400	U

APPENDIX F

APPENDIX F

Post-Excavation Concrete Sampling Data Package

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C1

ab Name: ICM_LABS Contract:

ab Code: ICM Case No.: SAS No.: SDG No.: C1

atrix (soil/water): SOIL Lab Sample ID: 279859

evel (low/med): LOW Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	14.6			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: GREY Clarity Before: YELLOW Texture:

Color After: CLOUDY Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C1DUP

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: C1____

Matrix (soil/water): SOIL_ Lab Sample ID: 279860

Level (low/med): LOW__ Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_		_		NR
7440-36-0	Antimony_		_		NR
7440-38-2	Arsenic__		_		NR
7440-39-3	Barium___		_		NR
7440-41-7	Beryllium		_		NR
7440-43-9	Cadmium__		_		NR
7440-70-2	Calcium__		_		NR
7440-47-3	Chromium_		_		NR
7440-48-4	Cobalt___		_		NR
7440-50-8	Copper___		_		NR
7439-89-6	Iron_____		_		NR
7439-92-1	Lead_____	27.8	_		P_
7439-95-4	Magnesium		_		NR
7439-96-5	Manganese		_		NR
7439-97-6	Mercury__		_		NR
7440-02-0	Nickel___		_		NR
7440-09-7	Potassium		_		NR
7782-49-2	Selenium_		_		NR
7440-22-4	Silver___		_		NR
7440-23-5	Sodium___		_		NR
7440-28-0	Thallium_		_		NR
7440-62-2	Vanadium_		_		NR
7440-66-6	Zinc_____		_		NR
_____	Cyanide__		_		NR
_____	_____		_		__

Color Before: GREY_____ Clarity Before: YELLOW Texture: _____

Color After: CLOUDY___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C2

Lab Name: ICM_LABS Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C1

Matrix (soil/water): SOIL Lab Sample ID: 279861

Level (low/med): LOW Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	48.9			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: GREY Clarity Before: YELLOW Texture:

Color After: CLOUDY Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C3

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: C1____

Matrix (soil/water): SOIL_ Lab Sample ID: 279862

Level (low/med): LOW__ Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	17.3			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
_____	Cyanide				NR
_____	_____				__

Color Before: GREY_____ Clarity Before: YELLOW Texture: _____

Color After: CLOUDY___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C4

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: C1____

Matrix (soil/water): SOIL_ Lab Sample ID: 279863

Level (low/med): LOW__ Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_		_		NR
7440-36-0	Antimony_		_		NR
7440-38-2	Arsenic__		_		NR
7440-39-3	Barium___		_		NR
7440-41-7	Beryllium		_		NR
7440-43-9	Cadmium__		_		NR
7440-70-2	Calcium__		_		NR
7440-47-3	Chromium_		_		NR
7440-48-4	Cobalt___		_		NR
7440-50-8	Copper___		_		NR
7439-89-6	Iron_____		_		NR
7439-92-1	Lead_____	11.5	_		P_
7439-95-4	Magnesium		_		NR
7439-96-5	Manganese		_		NR
7439-97-6	Mercury__		_		NR
7440-02-0	Nickel___		_		NR
7440-09-7	Potassium		_		NR
7782-49-2	Selenium_		_		NR
7440-22-4	Silver___		_		NR
7440-23-5	Sodium___		_		NR
7440-28-0	Thallium_		_		NR
7440-62-2	Vanadium_		_		NR
7440-66-6	Zinc_____		_		NR
_____	Cyanide__		_		NR
_____	_____		_		__

Color Before: GREY_____ Clarity Before: YELLOW Texture: _____

Color After: CLOUDY___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C5

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: C1____

Matrix (soil/water): SOIL_ Lab Sample ID: 279864

Level (low/med): LOW__ Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	7.3			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: GREY_____ Clarity Before: YELLOW Texture: _____

Color After: CLOUDY___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C6

Lab Name: ICM_LABS Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C1

Matrix (soil/water): SOIL Lab Sample ID: 279865

Level (low/med): LOW Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	10.7			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: GREY Clarity Before: YELLOW Texture:

Color After: CLOUDY Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C7

Lab Name: ICM_LABS_____ Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: C1____

Matrix (soil/water): SOIL_ Lab Sample ID: 279866

Level (low/med): LOW__ Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_		_		NR
7440-36-0	Antimony_		_		NR
7440-38-2	Arsenic__		_		NR
7440-39-3	Barium___		_		NR
7440-41-7	Beryllium		_		NR
7440-43-9	Cadmium__		_		NR
7440-70-2	Calcium__		_		NR
7440-47-3	Chromium_		_		NR
7440-48-4	Cobalt___		_		NR
7440-50-8	Copper___		_		NR
7439-89-6	Iron_____		_		NR
7439-92-1	Lead_____	10.8	_		P_
7439-95-4	Magnesium		_		NR
7439-96-5	Manganese		_		NR
7439-97-6	Mercury__		_		NR
7440-02-0	Nickel___		_		NR
7440-09-7	Potassium		_		NR
7782-49-2	Selenium_		_		NR
7440-22-4	Silver___		_		NR
7440-23-5	Sodium___		_		NR
7440-28-0	Thallium_		_		NR
7440-62-2	Vanadium_		_		NR
7440-66-6	Zinc_____		_		NR
_____	Cyanide__		_		NR
_____	_____		_		__

Color Before: GREY_____ Clarity Before: YELLOW Texture: _____

Color After: CLOUDY___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C8

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: C1____

Matrix (soil/water): SOIL_ Lab Sample ID: 279867

Level (low/med): LOW__ Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	16.1			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: GREY_____ Clarity Before: YELLOW Texture: _____

Color After: CLOUDY___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C9

Lab Name: ICM_LABS Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C1

Matrix (soil/water): SOIL Lab Sample ID: 279868

Level (low/med): LOW Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	50.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: GREY Clarity Before: YELLOW Texture:

Color After: CLOUDY Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C10

ab Name: ICM_LABS Contract:

ab Code: ICM Case No.: SAS No.: SDG No.: C1

Matrix (soil/water): SOIL Lab Sample ID: 279869

evel (low/med): LOW Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	8.3			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: GREY Clarity Before: YELLOW Texture:

Color After: CLOUDY Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C11

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: C1____

Matrix (soil/water): SOIL_ Lab Sample ID: 279870

Level (low/med): LOW__ Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	29.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: GREY_____ Clarity Before: YELLOW Texture: _____

Color After: CLOUDY___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C12

Lab Name: ICM_LABS Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C1

Matrix (soil/water): SOIL Lab Sample ID: 279871

Level (low/med): LOW Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	57.1			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: GREY Clarity Before: YELLOW Texture:

Color After: CLOUDY Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C13

Lab Name: ICM_LABS Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C1

Matrix (soil/water): SOIL Lab Sample ID: 279872

Level (low/med): LOW Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	195			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: GREY Clarity Before: YELLOW Texture:

Color After: CLOUDY Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C14

Lab Name: ICM_LABS Contract: _____

Lab Code: ICM___ Case No.: _____ SAS No.: _____ SDG No.: C1____

Matrix (soil/water): SOIL_ Lab Sample ID: 279873

Level (low/med): LOW__ Date Received: 12/22/97

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	10.9			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: GREY_____ Clarity Before: YELLOW Texture: _____

Color After: CLOUDY___ Clarity After: CLEAR_ Artifacts: _____

Comments:

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279859

Sample wt/vol: 30.09 (g/ml) G Lab File ID: J1875.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/31/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	27	J
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	330	U
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	60	J
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	84	J
129-00-0	Pyrene	93	J
56-55-3	Benzo[a]anthracene	38	J
218-01-9	Chrysene	45	J
205-99-2	Benzo[b]fluoranthene	88	J
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	38	J
193-39-5	Indeno[1,2,3-cd]pyrene	17	J
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	17	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1DUP

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279860

Sample wt/vol: 30.07 (g/ml) G Lab File ID: J1876.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/31/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	50	J
91-57-6	2-Methylnaphthalene	29	J
208-96-8	Acenaphthylene	49	J
83-32-9	Acenaphthene	54	J
132-64-9	Dibenzofuran	50	J
86-73-7	Fluorene	55	J
85-01-8	Phenanthrene	220	J
120-12-7	Anthracene	52	J
206-44-0	Fluoranthene	230	J
129-00-0	Pyrene	280	J
56-55-3	Benzo[a]anthracene	98	J
218-01-9	Chrysene	110	J
205-99-2	Benzo[b]fluoranthene	240	J
207-08-9	Benzo[k]fluoranthene	48	J
50-32-8	Benzo[a]pyrene	110	J
193-39-5	Indeno[1,2,3-cd]pyrene	55	J
53-70-3	Dibenz[a,h]anthracene	23	J
191-24-2	Benzo[g,h,i]perylene	55	J

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

C-2

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279861

Sample wt/vol: 30.05 (g/ml) G Lab File ID: J1877.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/31/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	56	J
91-57-6	2-Methylnaphthalene	33	J
208-96-8	Acenaphthylene	19	J
83-32-9	Acenaphthene	61	J
132-64-9	Dibenzofuran	65	J
86-73-7	Fluorene	66	J
85-01-8	Phenanthrene	350	
120-12-7	Anthracene	67	J
206-44-0	Fluoranthene	280	J
129-00-0	Pyrene	270	J
56-55-3	Benzo[a]anthracene	91	J
218-01-9	Chrysene	85	J
205-99-2	Benzo[b]fluoranthene	150	J
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	55	J
193-39-5	Indeno[1,2,3-cd]pyrene	21	J
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	19	J

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

C-3

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279862

Sample wt/vol: 30.11 (g/ml) G Lab File ID: J1878.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/31/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	330	U
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	27	J
129-00-0	Pyrene	27	J
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
205-99-2	Benzo[b]fluoranthene	26	J
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-4

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279863

Sample wt/vol: 30.13 (g/ml) G Lab File ID: J1879.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/31/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	330	U
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
205-99-2	Benzo[b]fluoranthene	19	J
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-5

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279864

Sample wt/vol: 30.19 (g/ml) G Lab File ID: J1880.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/31/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	19	J
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	20	J
85-01-8	Phenanthrene	41	J
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	20	J
129-00-0	Pyrene	330	U
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
205-99-2	Benzo[b]fluoranthene	330	U
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

EPA SAMPLE NO.

C-6

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279865

Sample wt/vol: 30.2 (g/ml) G Lab File ID: J1881.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/31/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	17	J
83-32-9	Acenaphthene	24	J
132-64-9	Dibenzofuran	20	J
86-73-7	Fluorene	39	J
85-01-8	Phenanthrene	150	J
120-12-7	Anthracene	34	J
206-44-0	Fluoranthene	150	J
129-00-0	Pyrene	150	J
56-55-3	Benzo[a]anthracene	59	J
218-01-9	Chrysene	56	J
205-99-2	Benzo[b]fluoranthene	100	J
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	41	J
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-7

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279866

Sample wt/vol: 30.07 (g/ml) G Lab File ID: J1882.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/31/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	400	
91-57-6	2-Methylnaphthalene	310	J
208-96-8	Acenaphthylene	59	J
83-32-9	Acenaphthene	670	
132-64-9	Dibenzofuran	760	
86-73-7	Fluorene	690	
85-01-8	Phenanthrene	2600	
120-12-7	Anthracene	380	
206-44-0	Fluoranthene	1400	
129-00-0	Pyrene	1300	
56-55-3	Benzo[a]anthracene	440	
218-01-9	Chrysene	340	
205-99-2	Benzo[b]fluoranthene	470	
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	170	J
193-39-5	Indeno[1,2,3-cd]pyrene	50	J
53-70-3	Dibenz[a,h]anthracene	27	J
191-24-2	Benzo[g,h,i]perylene	37	J

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

C-8

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279867

Sample wt/vol: 30.09 (g/ml) G Lab File ID: J1883.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/31/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	28	J
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	22	J
83-32-9	Acenaphthene	17	J
132-64-9	Dibenzofuran	16	J
86-73-7	Fluorene	15	J
85-01-8	Phenanthrene	84	J
120-12-7	Anthracene	28	J
206-44-0	Fluoranthene	100	J
129-00-0	Pyrene	150	J
56-55-3	Benzo[a]anthracene	72	J
218-01-9	Chrysene	80	J
205-99-2	Benzo[b]fluoranthene	170	J
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	77	J
193-39-5	Indeno[1,2,3-cd]pyrene	31	J
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	31	J

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

C-8RE

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279867RE

Sample wt/vol: 30.09 (g/ml) G Lab File ID: J2023.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/10/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	28	J
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	21	J
83-32-9	Acenaphthene	17	J
132-64-9	Dibenzofuran	16	J
86-73-7	Fluorene	13	J
85-01-8	Phenanthrene	84	J
120-12-7	Anthracene	26	J
206-44-0	Fluoranthene	92	J
129-00-0	Pyrene	230	J
56-55-3	Benzo[a]anthracene	66	J
218-01-9	Chrysene	75	J
205-99-2	Benzo[b]fluoranthene	190	J
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	72	J
193-39-5	Indeno[1,2,3-cd]pyrene	40	J
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	42	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-9

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279868

Sample wt/vol: 30.11 (g/ml) G Lab File ID: J1914.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/04/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	35	J
83-32-9	Acenaphthene	330	U
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	45	J
120-12-7	Anthracene	33	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	160	J
56-55-3	Benzo[a]anthracene	77	J
218-01-9	Chrysene	120	J
205-99-2	Benzo[b]fluoranthene	290	J
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	22	J
193-39-5	Indeno[1,2,3-cd]pyrene	39	J
53-70-3	Dibenz[a,h]anthracene	18	J
191-24-2	Benzo[g,h,i]perylene	30	J

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

C-10

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279869

Sample wt/vol: 30.02 (g/ml) G Lab File ID: J1888.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/01/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	31	J
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	330	U
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	49	J
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	63	J
129-00-0	Pyrene	45	J
56-55-3	Benzo[a]anthracene	20	J
218-01-9	Chrysene	21	J
205-99-2	Benzo[b]fluoranthene	33	J
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	15	J
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-11

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279870

Sample wt/vol: 30.06 (g/ml) G Lab File ID: J1889.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/01/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	97	J
91-57-6	2-Methylnaphthalene	74	J
208-96-8	Acenaphthylene	55	J
83-32-9	Acenaphthene	130	J
132-64-9	Dibenzofuran	110	J
86-73-7	Fluorene	130	J
85-01-8	Phenanthrene	470	
120-12-7	Anthracene	110	J
206-44-0	Fluoranthene	370	
129-00-0	Pyrene	390	
56-55-3	Benzo[a]anthracene	180	J
218-01-9	Chrysene	210	J
205-99-2	Benzo[b]fluoranthene	380	
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	55	J
193-39-5	Indeno[1,2,3-cd]pyrene	88	J
53-70-3	Dibenz[a,h]anthracene	43	J
191-24-2	Benzo[g,h,i]perylene	88	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-12

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279871

Sample wt/vol: 30.04 (g/ml) G Lab File ID: J1890.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/01/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	17	J
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	34	J
83-32-9	Acenaphthene	22	J
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	19	J
85-01-8	Phenanthrene	140	J
120-12-7	Anthracene	48	J
206-44-0	Fluoranthene	200	J
129-00-0	Pyrene	190	J
56-55-3	Benzo[a]anthracene	89	J
218-01-9	Chrysene	86	J
205-99-2	Benzo[b]fluoranthene	170	J
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	84	J
193-39-5	Indeno[1,2,3-cd]pyrene	65	J
53-70-3	Dibenz[a,h]anthracene	23	J
191-24-2	Benzo[g,h,i]perylene	79	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-13

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279872

Sample wt/vol: 30 (g/ml) G Lab File ID: J1891.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/01/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	29	J
91-57-6	2-Methylnaphthalene	22	J
208-96-8	Acenaphthylene	26	J
83-32-9	Acenaphthene	88	J
132-64-9	Dibenzofuran	60	J
86-73-7	Fluorene	92	J
85-01-8	Phenanthrene	360	
120-12-7	Anthracene	75	J
206-44-0	Fluoranthene	370	
129-00-0	Pyrene	410	
56-55-3	Benzo[a]anthracene	160	J
218-01-9	Chrysene	160	J
205-99-2	Benzo[b]fluoranthene	310	J
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	44	J
193-39-5	Indeno[1,2,3-cd]pyrene	59	J
53-70-3	Dibenz[a,h]anthracene	27	J
191-24-2	Benzo[g,h,i]perylene	61	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-14

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279873

Sample wt/vol: 30.3 (g/ml) G Lab File ID: J1892.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/01/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	770	
91-57-6	2-Methylnaphthalene	340	
208-96-8	Acenaphthylene	78	J
83-32-9	Acenaphthene	500	
132-64-9	Dibenzofuran	460	
86-73-7	Fluorene	630	
85-01-8	Phenanthrene	1600	
120-12-7	Anthracene	330	
206-44-0	Fluoranthene	1200	
129-00-0	Pyrene	990	
56-55-3	Benzo[a]anthracene	410	
218-01-9	Chrysene	300	J
205-99-2	Benzo[b]fluoranthene	500	
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	160	J
193-39-5	Indeno[1,2,3-cd]pyrene	72	J
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	63	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1MS

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279859MS

Sample wt/vol: 30.04 (g/ml) G Lab File ID: J1895.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/01/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	50	J
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	21	J
83-32-9	Acenaphthene	1700	
132-64-9	Dibenzofuran	21	J
86-73-7	Fluorene	18	J
85-01-8	Phenanthrene	120	J
120-12-7	Anthracene	24	J
206-44-0	Fluoranthene	140	J
129-00-0	Pyrene	1800	
56-55-3	Benzo[a]anthracene	61	J
218-01-9	Chrysene	71	J
205-99-2	Benzo[b]fluoranthene	130	J
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	58	J
193-39-5	Indeno[1,2,3-cd]pyrene	33	J
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	35	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1MSD

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: 279859MSD

Sample wt/vol: 30.1 (g/ml) G Lab File ID: J1896.D

Level: (low/med) LOW Date Received: 12/22/97

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/01/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	1600	
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	22	J
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	1700	
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	19	J
205-99-2	Benzo[b]fluoranthene	41	J
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	17	J
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLANK SPIKE

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: BLANK SPIKE

Sample wt/vol: 30 (g/ml) G Lab File ID: J1910.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/04/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	1400	
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	1600	
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
205-99-2	Benzo[b]fluoranthene	330	U
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLANK SPIKE

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: BLANK SPIKE

Sample wt/vol: 30 (g/ml) G Lab File ID: J1894.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/01/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	330	U
91-57-6	2-Methylnaphthalene	330	U
208-96-8	Acenaphthylene	330	U
83-32-9	Acenaphthene	1700	
132-64-9	Dibenzofuran	330	U
86-73-7	Fluorene	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	1600	
56-55-3	Benzo[a]anthracene	330	U
218-01-9	Chrysene	330	U
205-99-2	Benzo[b]fluoranthene	330	U
207-08-9	Benzo[k]fluoranthene	330	U
50-32-8	Benzo[a]pyrene	330	U
193-39-5	Indeno[1,2,3-cd]pyrene	330	U
53-70-3	Dibenz[a,h]anthracene	330	U
191-24-2	Benzo[g,h,i]perylene	330	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

QA/QC

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: QA/QC

Sample wt/vol: 30 (g/ml) G Lab File ID: J1913.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/04/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	700	
91-57-6	2-Methylnaphthalene	700	
208-96-8	Acenaphthylene	730	
83-32-9	Acenaphthene	730	
132-64-9	Dibenzofuran	750	
86-73-7	Fluorene	760	
85-01-8	Phenanthrene	660	
120-12-7	Anthracene	650	
206-44-0	Fluoranthene	660	
129-00-0	Pyrene	790	
56-55-3	Benzo[a]anthracene	730	
218-01-9	Chrysene	680	
205-99-2	Benzo[b]fluoranthene	1000	
207-08-9	Benzo[k]fluoranthene	940	
50-32-8	Benzo[a]pyrene	820	
193-39-5	Indeno[1,2,3-cd]pyrene	450	
53-70-3	Dibenz[a,h]anthracene	470	
191-24-2	Benzo[g,h,i]perylene	360	

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

QA/QC

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOIL Lab Sample ID: QA/QC

Sample wt/vol: 30 (g/ml) G Lab File ID: J1893.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: 0 decanted:(Y/N) N Date Extracted: 12/26/97

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/01/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	780	
91-57-6	2-Methylnaphthalene	770	
208-96-8	Acenaphthylene	790	
83-32-9	Acenaphthene	790	
132-64-9	Dibenzofuran	790	
86-73-7	Fluorene	830	
85-01-8	Phenanthrene	720	
120-12-7	Anthracene	720	
206-44-0	Fluoranthene	740	
129-00-0	Pyrene	800	
56-55-3	Benzo[a]anthracene	820	
218-01-9	Chrysene	790	
205-99-2	Benzo[b]fluoranthene	1100	
207-08-9	Benzo[k]fluoranthene	900	
50-32-8	Benzo[a]pyrene	860	
193-39-5	Indeno[1,2,3-cd]pyrene	600	
53-70-3	Dibenz[a,h]anthracene	620	
191-24-2	Benzo[g,h,i]perylene	530	

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) SOLID Lab Sample ID: 279859

ample wt/vol: 30.1 (g/mL) G Lab File ID: HA2863

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	70.	
11096-82-5	Aroclor-1260	140.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1DUP

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) SOLID Lab Sample ID: 279860

ample wt/vol: 30.1 (g/mL) G Lab File ID: HA2864

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	55.	
11096-82-5	Aroclor-1260	140.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-2

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) SOLID Lab Sample ID: 279861

ample wt/vol: 30.1 (g/mL) G Lab File ID: HA2865

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	91.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-3

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) SOLID Lab Sample ID: 279862

ample wt/vol: 30.0 (g/mL) G Lab File ID: HA2866

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-4

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) SOLID Lab Sample ID: 279863

ample wt/vol: 30.0 (g/mL) G Lab File ID: HA2867

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-6

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) SOLID Lab Sample ID: 279865

ample wt/vol: 30.0 (g/mL) G Lab File ID: HA2869

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-7

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) SOLID Lab Sample ID: 279866

ample wt/vol: 30.1 (g/mL) G Lab File ID: HA2870

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-8

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) SOLID Lab Sample ID: 279867

ample wt/vol: 30.1 (g/mL) G Lab File ID: HA2871

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-9

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) SOLID Lab Sample ID: 279868

ample wt/vol: 30.1 (g/mL) G Lab File ID: HA2872

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-10

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

..atrix: (soil/water) SOLID Lab Sample ID: 279869

ample wt/vol: 30.1 (g/mL) G Lab File ID: HA2873

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-11

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) SOLID Lab Sample ID: 279870

ample wt/vol: 30.1 (g/mL) G Lab File ID: HA2874

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	8400.	E

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-11	DL

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) SOLID Lab Sample ID: 279870

ample wt/vol: 30.1 (g/mL) G Lab File ID: HA2881

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

njection Volume: 1.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	1700.	U
11104-28-2	Aroclor-1221	1700.	U
11141-16-5	Aroclor-1232	1700.	U
53469-21-9	Aroclor-1242	1700.	U
12672-29-6	Aroclor-1248	1700.	U
11097-69-1	Aroclor-1254	1700.	U
11096-82-5	Aroclor-1260	13000.	D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-11A

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-11A

atrix: (soil/water) SOIL Lab Sample ID: 285748

ample wt/vol: 30.4 (g/mL) G Lab File ID: HA3605

% Moisture: 0. decanted: (Y/N) N Date Received: 03/17/98

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/17/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/26/98

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-11B

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-11A

atrix: (soil/water) SOIL Lab Sample ID: 285749

ample wt/vol: 30.0 (g/mL) G Lab File ID: HA3606

% Moisture: 0. decanted: (Y/N) N Date Received: 03/17/98

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/17/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/26/98

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-11C

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-11A

atrix: (soil/water) SOIL Lab Sample ID: 285750

ample wt/vol: 30.2 (g/mL) G Lab File ID: HA3607

% Moisture: 0. decanted: (Y/N) N Date Received: 03/17/98

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/17/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/26/98

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-11D

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-11A

atrix: (soil/water) SOIL Lab Sample ID: 285751

ample wt/vol: 30.2 (g/mL) G Lab File ID: HA3610

Moisture: 0. decanted: (Y/N) N Date Received: 03/17/98

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/17/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/27/98

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	69.	

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-11E

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-11A

atrix: (soil/water) SOIL Lab Sample ID: 285752

ample wt/vol: 30.1 (g/mL) G Lab File ID: HA3611

% Moisture: 0. decanted: (Y/N) N Date Received: 03/17/98

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/17/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/27/98

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	54.	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-11F

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-11A

atrix: (soil/water) SOIL Lab Sample ID: 285753

ample wt/vol: 30.1 (g/mL) G Lab File ID: HA3612

% Moisture: 0. decanted: (Y/N) N Date Received: 03/17/98

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/17/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/27/98

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-11G

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-11A

atrix: (soil/water) SOIL Lab Sample ID: 285754

ample wt/vol: 30.4 (g/mL) G Lab File ID: HA3618

% Moisture: 0. decanted: (Y/N) N Date Received: 03/17/98

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/17/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/27/98

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-12

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) SOLID Lab Sample ID: 279871

ample wt/vol: 30.1 (g/mL) G Lab File ID: HA2878

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	99.	

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-13

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOLID Lab Sample ID: 279872

Sample wt/vol: 30.1 (g/mL) G Lab File ID: HA2879

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-14

ab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) SOLID Lab Sample ID: 279873

ample wt/vol: 30.1 (g/mL) G Lab File ID: HA2880

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: PBLK41

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOLID Lab Sample ID: PBLK41

Sample wt/vol: 30.0 (g/mL) G Lab File ID: HA2884

% Moisture: 0. decanted: (Y/N) N Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/~~30~~26/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK01

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK01

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2599

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/15/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK02

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK02

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2612

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

PIBLK03

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK03

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2621

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK04

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK04

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2634

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/17/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK05

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK05

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2637

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/17/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK06

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK06

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2651

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/18/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK07

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK07

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2664

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/18/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK08

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK08

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2676

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/19/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK09

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK09

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2690

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/19/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

PIBLK10

Lab Name: ICM Contract:

ab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK10

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2692

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

xtraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK11

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK11

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2706

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/22/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK12

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK12

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2719

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/22/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK14

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK14

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2739

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/23/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK15

Lab Name: ICM Contract:

ab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK15

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2742

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

xtraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/24/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK16

Lab Name: ICM Contract:

ab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK16

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2756

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

xtraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/25/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK17

Lab Name: ICM Contract:

ab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK17

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2770

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

xtraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/25/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK18

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK18

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2782

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/26/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK19

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK19

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2787

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK20

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK20

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2801

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK21

ab Name: ICM Contract:

ab Code: ICM Case No.: SAS No.: SDG No.: C-1

atrix: (soil/water) WATER Lab Sample ID: PIBLK21

ample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2815

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

xtraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/97

njection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK22

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK22

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2823

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/29/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK23

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK23

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2833

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/29/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK24

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK24

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2847

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK25

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK25

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2861

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK26

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK26

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2875

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK27

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK27

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2889

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK28

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK28

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2896

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/01/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK29

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK29

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2899

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/12/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK30

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) WATER Lab Sample ID: PIBLK30

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: HA2911

% Moisture: _____ decanted: (Y/N)___ Date Received: 00/00/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 00/00/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/12/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	.025	U
319-85-7	beta-BHC	.025	U
319-86-8	delta-BHC	.025	U
58-89-9	gamma-BHC (Lindane)	.025	U
76-44-8	Heptachlor	.025	U
309-00-2	Aldrin	.025	U
1024-57-3	Heptachlor epoxide	.025	U
959-98-8	Endosulfan I	.025	U
60-57-1	Dieldrin	.050	U
72-55-9	4,4'-DDE	.050	U
72-20-8	Endrin	.050	U
33213-65-9	Endosulfan II	.050	U
72-54-8	4,4'-DDD	.050	U
1031-07-8	Endosulfan Sulfate	.050	U
50-29-3	4,4'-DDT	.050	U
72-43-5	Methoxychlor	.25	U
53494-70-5	Endrin ketone	.050	U
7421-93-4	Endrin aldehyde	.050	U
5103-71-9	alpha-Chlordane	.025	U
5103-74-2	gamma-Chlordane	.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	.50	U
11096-82-5	Aroclor-1260	.50	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1 MS

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOLID Lab Sample ID: 279859

Sample wt/vol: 30.0 (g/mL) G Lab File ID: HA2909

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/~~30~~/97 (handwritten correction above, partly legible)

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/12/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
58-89-9	gamma-BHC (Lindane)	13.	
76-44-8	Heptachlor	13.	
309-00-2	Aldrin	15.	
60-57-1	Dieldrin	32.	
72-20-8	Endrin	38.	
50-29-3	4,4'-DDT	39.	P
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	140.	
11096-82-5	Aroclor-1260	290.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C-1 MSD

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOLID Lab Sample ID: 279859

Sample wt/vol: 30.0 (g/mL) G Lab File ID: HA2910

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/~~30~~29/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/12/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
58-89-9	gamma-BHC (Lindane)	11.	
76-44-8	Heptachlor	12.	
309-00-2	Aldrin	12.	
60-57-1	Dieldrin	26.	
72-20-8	Endrin	31.	
50-29-3	4,4'-DDT	32.	
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	78.	P
11096-82-5	Aroclor-1260	170.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLK_SP

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOLID Lab Sample ID: BLK_SP

Sample wt/vol: 30.0 (g/mL) G Lab File ID: HA2901

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/~~30~~26/97 26 01/01/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/12/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
58-89-9	gamma-BHC (Lindane)	19.	
76-44-8	Heptachlor	18.	
309-00-2	Aldrin	17.	
60-57-1	Dieldrin	39.	
72-20-8	Endrin	45.	
50-29-3	4,4'-DDT	40.	
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

QA_QC

Lab Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: C-1

Matrix: (soil/water) SOLID Lab Sample ID: QA_QC

Sample wt/vol: 30.1 (g/mL) G Lab File ID: HA2886

% Moisture: 0. decanted: (Y/N) N Date Received: 12/22/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/~~30~~ 31/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/31/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	340.	
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	400.	

APPENDIX G

APPENDIX G

APPENDIX G

Soil Disposal Characterization Sampling Data Package

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 30, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 279880
Client: ROUX ASSOCIATES, INC.
Sample source: AMTRAK OU-1/05552Y05
Sample ID: SP-1
Sample date: 12/19/97
Sampled by: Customer
At lab date: 12/22/97
Matrix: SOIL

Batch #:	QPC7445	Column used:	DB 1701/DB 608
Extraction date:	12/26/97	Analysis date:	12/30/97
Weight/Volume:	20g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	15.69%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	300	150
Aroclor-1221	U	U	590	420
Aroclor-1232	U	U	300	240
Aroclor-1242	U	U	300	150
Aroclor-1248	U	U	300	180
Aroclor-1254	U	U	300	210
Aroclor-1260	4900	U	300	240

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.

DAV

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 30, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 279881
Client: ROUX ASSOCIATES, INC.
Sample source: AMTRAK OU-1/05552Y05
Sample ID: SP-2
Sample date: 12/19/97
Sampled by: Customer
At lab date: 12/22/97
Matrix: SOIL

Batch #:	QPC7445	Column used:	DB 1701/DB 608
Extraction date:	12/26/97	Analysis date:	12/29/97
Weight/Volume:	20g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	6.88%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	54	27
Aroclor-1221	U	U	110	75
Aroclor-1232	U	U	54	43
Aroclor-1242	U	U	54	27
Aroclor-1248	U	U	54	32
Aroclor-1254	U	U	54	38
Aroclor-1260	950	U	54	43

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.

DAV

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
Leachate Analysis

Lab Number: 279882
Client: ROUX ASSOCIATES, INC.
Sample source: AMTRAK OU-1/05552Y05
Sample ID: SP-(1-2)
Sample date: 12/19/97
Sampled by: Customer
At lab date: 12/22/97
TCLP Ext. Date: 12/24/97
Results in mg/L.

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Dilution Factor	Analysis Date
Cadmium	0.081	U	0.010	1	12/26/97
Chromium	0.022	U	0.010	1	12/26/97
Lead	0.388	U	0.050	1	12/26/97

U = Not Detected

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.

ROB

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/kg (ppm) dry weight basis unless otherwise stated.

Lab Number: 279882
Client: ROUX ASSOCIATES, INC.
Sample Source: AMTRAK OU-1/05552Y05
Sample ID: SP-(1-2)
Sample matrix: SOIL
Sample date: 12/19/97
Sampled by: Customer
At lab date: 12/22/97
% Moisture: 9.61%

PARAMETER	DILUTION FACTOR	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT	ANALYSIS DATE
Oil & Grease	1	1700	U	280	12/24/97

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.

GEE

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 31, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 280004
Client: ROUX ASSOCIATES, INC.
Sample source: Amtrack S Syd/05552Y05
Sample ID: SP-3
Sample date: 12/22/97
Sampled by: Customer
At lab date: 12/23/97
Matrix: SOIL

Batch #:	QPC7443	Column used:	DB 1701/DB 608
Extraction date:	12/29/97	Analysis date:	12/30/97
Weight/Volume:	30g	Final Volume:	100ml
Dilution Factor:	10	Sample Moisture:	18.97%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	410	200
Aroclor-1221	U	U	820	580
Aroclor-1232	U	U	410	330
Aroclor-1242	U	U	410	200
Aroclor-1248	U	U	410	250
Aroclor-1254	U	U	410	290
Aroclor-1260	4400	U	410	330

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.

ROB

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 30, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 280005
Client: ROUX ASSOCIATES, INC.
Sample source: Amtrack S Syd/05552Y05
Sample ID: SP-4
Sample date: 12/22/97
Sampled by: Customer
At lab date: 12/23/97
Matrix: SOIL

Batch #:	QPC7443	Column used:	DB 1701/DB 608
Extraction date:	12/29/97	Analysis date:	12/29/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	7.23%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	36	18
Aroclor-1221	U	U	72	50
Aroclor-1232	U	U	36	29
Aroclor-1242	U	U	36	18
Aroclor-1248	U	U	36	22
Aroclor-1254	U	U	36	25
Aroclor-1260	24J	U	36	29

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.

DAV

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
Leachate Analysis

Lab Number: 280006
Client: ROUX ASSOCIATES, INC.
Sample source: Amtrack OU-1/05552Y05
Sample ID: SP-(3,4)
Sample date: 12/22/97
Sampled by: Customer
At lab date: 12/23/97
TCLP Ext. Date: 12/24/97
Results in mg/L.

Parameter	Sample Result	Method Blank Analysis	Minimum Detection Limit	Dilution Factor	Analysis Date
Cadmium	0.068	U	0.010	1	12/26/97
Chromium	U	U	0.010	1	12/26/97
Lead	2.18	U	0.050	1	12/26/97

U = Not Detected

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.

ROB

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY ANALYSIS
All results are reported in mg/kg (ppm) dry weight basis unless otherwise stated.

Lab Number: 280006
Client: ROUX ASSOCIATES, INC.
Sample Source: Amtrack OU-1/05552Y05
Sample ID: SP-(3,4)
Sample matrix: SOIL
Sample date: 12/22/97
Sampled by: Customer
At lab date: 12/23/97
% Moisture: 15.75%

PARAMETER	DILUTION FACTOR	RESULT	METHOD BLANK	MINIMUM DETECTION LIMIT	ANALYSIS DATE
Oil & Grease	1	3840	U	300	12/24/97

< = Less than
> = Greater than
U= Not detected, NA= Not applicable.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.

GEE

APPENDIX H

APPENDIX H

Soil Disposal Records

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25918

NON-HAZARDOUS WASTE MANIFEST

MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No:) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178M

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/30/98 A/C Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.

COMPANY NAME: TSD

ADDRESS: WAYNE N.J.

Pick-up Date: 1/30/98 Truck No. 31 Vehicle Lic. No. TYE225

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title: RBaun

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1-30-98 (DISPOSAL DATE)

Signature of authorized agent and title:

CUSTOMER SERVICE 1-800-778-5797

914378
DATE: 01/30/98
TIME: 14:29-15:08

CUSTOMER: 665
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 0031 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25918
CONTAM. SOIL/SITE CLEA

PCT	WGT/VOL
100	65600

GROSS: 100160 LBS

TARE: 34560 LBS

NET: 65600 LBS = 32.80 TONS

$

TONS DUMPED TODAY: 56.40

0015566 REMARKS P Baum SIGN _____ I E

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25923

NON-HAZARDOUS WASTE MANIFEST

MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/27/98 As Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.

COMPANY NAME: Coast Line (GW43)

ADDRESS: Bristol Pa

Pick-up Date: 1/27/98 Truck No. 03 Vehicle Lic. No. AC 3195

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title:

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1-27-98 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

S. R. O. B. S., INC.
CUSTOMER SERVICE 1-800-778-9797

913419
DATE: 01/27/98
TIME: 11:21-12:05

CUSTOMER: 865
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 00C3 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25923
CONTAM. SOIL/SITE CLEA

PCT	WGT/VOL
100	48400

GROSS: 76140 LBS

TARE: 27740 LBS

NET: 48400 LBS = 24.20 TONS

TONS DUMPED TODAY: 162.04

0015566 REMARKS _____ SIGN _____ E L

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25914

NON-HAZARDOUS WASTE MANIFEST MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

As Agent for Amtrak

Date: 1/27/98 Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.

COMPANY NAME: Coast Inc (NJD)

ADDRESS: Bristol Pa

Pick-up Date: 1/27-98 Truck No. 04 Vehicle Lic. No. AC 133E

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title:

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1-27-98 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

D. & D. W. S., INC.
CUSTOMER SERVICE 1-800-778-4797

913416
DATE: 01/27/98
TIME: 11:18-12:03

CUSTOMER: 665
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 0004 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25914
CONTAM. SOIL/SITE CLEA

PCT	WGT/VOL
100	5242

GROSS: 80520 LBS

TARE: 28100 LBS

NET: 52420 LBS = 26.21 TONS

$

TONS DUMPED TODAY: 137.84

0015566 REMARKS _____ SIGN _____ E

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25920

NON-HAZARDOUS WASTE MANIFEST

MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/29/98 As Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.

COMPANY NAME: Coastline

ADDRESS: Bristol Pa

Pick-up Date: 1/30/98 Truck No. 04 Vehicle Lic. No. AC132E

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title:

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1/30/98. (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

G. R. O. W. S., INC.
CUSTOMER SERVICE 1-800-778-9797

914244
DATE: 01/30/98
TIME: 10:20-10:47

CUSTOMER: 665
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 0004 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25920
CONTAM. SOIL/SITE CLEA

PCT	WGT/V
100	472

GROSS: 75160 LBS

TARE: 27960 LBS

NET: 47200 LBS = 23.60 TONS

$

TONS DUMPED TODAY: 23.60

0015566 REMARKS _____ SIGN _____ H

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25931

NON-HAZARDOUS WASTE MANIFEST

MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/28/98 As Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No. JA-448

COMPANY NAME: WM Mapleton & Sons

ADDRESS: Washington NJ

Pick-up Date: 1/28/97 Truck No. #9 Vehicle Lic. No. AB 464-T

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title: Rich McGuire

3. ~~Disposer of~~ Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

~~Waste subject to~~ this manifest was delivered by the above hauler to this disposal facility and accepted on 1/28/98 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

CUSTOMER SERVICE 1-800-778-

DATE: 01/23/90
TIME: 11:07-11:22

CUSTOMER: 365
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 728178N

TRUCK: 3009 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25931

CONTAM. SOIL/SITE CLEA	PCT	WGT/VOL
	100	6380

GROSS: 89800 LBS

TARE: 26000 LBS

NET: 63800 LBS = 31.90 TONS

$

TONS DUMPED TODAY: 92.16

0015566 REMARKS _____ SIGN Ricky H

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25927

NON-HAZARDOUS WASTE MANIFEST MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No. _____

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: _____ Other (Specify): _____

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/28/98 As Agent for AMTRAK Signature: Karl McGowan (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No. _____

COMPANY NAME: HAGGERTY

ADDRESS: WASHINGTON, N.J.

Pick-up Date: 1/28/98 Truck No. 7 Vehicle Lic. No. T202KG

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title: George D. Tuthill

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1/28/98 (DISPOSAL DATE)

Signature of authorized agent and title: _____

LANDFILL (MAIL TO GENERATOR)

CUSTOMER SERVICE 1-800-778-[illegible] INC.

013746
DATE: 01/29/98
TIME: 13:36-13:29

CUSTOMER: [illegible]
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 0007 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25927
CONTAM. SOIL/SITE CLEA

PCT	WGT/VOL
100	49140

GROSS: 81520 LBS

TARE: 32380 LBS

NET: 49140 LBS = 24.57 TONS

TONS DUMPED TODAY: 270.96

$

0015566 REMARKS _____ SIGN George F. L I

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25930

NON-HAZARDOUS WASTE MANIFEST HS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/28/98 As Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No. JA448

COMPANY NAME: Hegarty Trucking

ADDRESS: Washington NJ

Pick-up Date: 1/28/98 Truck No. 197 Vehicle Lic. No. T174HKA

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title:

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste ~~subject to~~ this manifest was delivered by the above hauler to this disposal facility and accepted on 1/28/98 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

CUSTOMER SERVICE 1-800-775-

110703
DATE: 01/28/98
TIME: 11:32-12:09

CUSTOMER: 585
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338173N

TRUCK: 0197 WASTE: CON CONTAMINATED SOIL - MANIFEST: 25930
NATIONAL RAILROAD PASSENGER CONTAM. SOIL/SITE CLEA
ORIGIN
NEW JERSEY

PCT	WGT/VOL
100	49200

GROSS: 81860 LBS

TARE: 32660 LBS

NET: 49200 LBS = 24.60 TONS

$

TONS DUMPED TODAY: 197.45

0015566 REMARKS ______________ SIGN Tony Rosa ______ H L

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25929

NON-HAZARDOUS WASTE MANIFEST MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/28/98 As Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.

COMPANY NAME: S,S,K Trucking T.A.K.

ADDRESS: Lodi N.J.

Pick-up Date: 1/28/98 Truck No. 11 Vehicle Lic. No. AC401B

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title: Dan Scott

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1/28/98 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

913710
DATE: 01/28/98
TIME: 11:40-12:08

CUSTOMER: 663
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338176N

TRUCK: 0011 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 35929
CONTAM. SOIL/SITE CLEA
PCT 100 WGT/VOL 60860

GROSS: 87520 LBS

TARE: 26660 LBS

NET: 60860 LBS = 30.43 TONS

TONS DUMPED TODAY: 146.57

0015566 REMARKS _____ SIGN D Sicko E L

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25928

NON-HAZARDOUS WASTE MANIFEST MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/28/98 Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.

COMPANY NAME: TAK Trucking

ADDRESS: Lodi NJ

Pick-up Date: 1/28/98 Truck No. 3 Vehicle Lic. No. AD 809B

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title:

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1/28/98 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

G. R. O. W. S., INC.
CUSTOMER SERVICE 1-800-778-9797

913709
DATE: 01/28/98
TIME: 11:38-12:08

CUSTOMER: 665
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 0RLS

WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25928
CONTAM. SOIL/SITE CLEA

PCT	WGT/VOL
100	52560

GROSS: 78800 LBS

TARE: 26240 LBS

NET: 52560 LBS = 26.28 TONS

TONS DUMPED TODAY: 172.85

0015566 REMARKS _____ SIGN _____ H I

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25917

NON-HAZARDOUS WASTE MANIFEST MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/28/98 As Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.

COMPANY NAME: Coast Line

ADDRESS: Bristol Pa

Pick-up Date: 1/28/98 Truck No. 03 Vehicle Lic. No. AC3190

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title:

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1/28/98 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

B. F. O. W. S., INC.
CUSTOMER SERVICE 1-800-778-9797

913693
DATE: 01/28/98
TIME: 11:09-11:40

CUSTOMER: 665
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 0003 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25917
CONTAM. SOIL/SITE CLEA

PCT	WGT/VOL
100	47960

GROSS: 76220 LBS

TARE: 28260 LBS

NET: 47960 LBS = 23.98 TONS

TONS DUMPED TODAY: 116.14

0015566 REMARKS _____ SIGN _____ H L

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25913

NON-HAZARDOUS WASTE MANIFEST MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/27/98 As Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.

COMPANY NAME: TAK Trucking

ADDRESS: Lodi NJ

Pick-up Date: 1/27/98 Truck No. 3 Vehicle Lic. No. AD 389B

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title:

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.B.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1-27-98 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

G. R. O. W. S., INC.
CUSTOMER SERVICE 1-800-778-9797

913415
DATE: 01/27/98
TIME: 11:17-12:02

CUSTOMER: 665
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 0003 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25913
CONTAM. SOIL/SITE CLEA

PCT	WGT/VOL
100	46400

GROSS: 72600 LBS

TARE: 26200 LBS

NET: 46400 LBS = 23.20 TONS

TONS DUMPED TODAY: 111.63

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0015566 REMARKS _____ SIGN _____ E E

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25932

NON-HAZARDOUS WASTE MANIFEST MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 (No.) Honeywell St. (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/27/98 As Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No. JA-445

COMPANY NAME: TAK/DASH Trucking

ADDRESS: Lodi, N.J.

Pick-up Date: 1-27-98 Truck No. #2 Vehicle Lic. No. AC254T/N

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title: Driver

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1-27-98 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

CUSTOMER SERVICE 1-800-778-5797

913414
DATE: 01/27/98
TIME: 11:16-12:02

CUSTOMER: 665
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 0002 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25932
CONTAM. SOIL/SITE CLEA

PCT	WGT/VOL
100	54760

GROSS: 85720 LBS

TARE: 30960 LBS

NET: 54760 LBS = 27.38 TONS

TONS DUMPED TODAY: 88.43

0015566 REMARKS _____ SIGN _____ I L

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25916

NON-HAZARDOUS WASTE MANIFEST MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 (No.) Honeywell St. (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/27/98 As Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No. J#448

COMPANY NAME: Haggerty Trucking

ADDRESS: Washington NJ

Pick-up Date: 1/27/98 Truck No. 197 Vehicle Lic. No. T174 HK NJ

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title: Tony Rossi

3. Disposer of Waste (must be filled-in by disposer) · CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1-27-98 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

CUSTOMER SERVICE G. P. O. W. S., INC. 1-800-778-9787

913403
DATE: 01/27/98
TIME: 10:57-11:27

CUSTOMER: 665
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

TRUCK: 0197

WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

PROFILE: 338178N

MANIFEST: 25916
CONTAM. SOIL/SITE CLEA

PCT	WGT/VOL
100	56600

GROSS: 89080 LBS

TARE: 32480 LBS

NET: 56600 LBS = 28.30 TONS

TONS DUMPED TODAY: 61.05

0015566 REMARKS _____ SIGN _____ $ E L

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1090 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25926

NON-HAZARDOUS WASTE MANIFEST MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/29/98 As Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.

COMPANY NAME: TSD

ADDRESS: WAYNE N.J.

Pick-up Date: 1/29/98 Truck No. 37 Vehicle Lic. No. AB18ON

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title:

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1-29-98 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

G. R. O. W. S., INC.
CUSTOMER SERVICE 1-800-778-9797

914020
DATE: 01/29/98
TIME: 12:18-12:49

CUSTOMER: 665
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 0037 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25926
CONTAM. SOIL/SITE CLEA

PCT	WGT/VOL
100	50100

GROSS: 75400 LBS

TARE: 25300 LBS

NET: 50100 LBS = 25.05 TONS

TONS DUMPED TODAY: 229.75

0015566 REMARKS _____ SIGN _____ I L

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25924

NON-HAZARDOUS WASTE MANIFEST MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/29/98 Signature: As Agent for Amtrak (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.

COMPANY NAME: TSD

ADDRESS: WAYNE N.J

Pick-up Date: 1/29/98 Truck No. Vehicle Lic. No. T938YL

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title: (DRIVER)

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1-29-98 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

B. R. O. W. S., INC.
CUSTOMER SERVICE 1-800-778-9797

914063
DATE: 01/29/98
TIME: 13:31-14:11

CUSTOMER: 665
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 0417 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25924
CONTAM. SOIL/SITE CLEA

PCT	WGT/VOL
100	44900

GROSS: 75940 LBS

TARE: 31040 LBS

NET: 44900 LBS = 22.45 TONS

TONS DUMPED TODAY: 278.26

0015566 REMARKS _____ SIGN _____ I

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25915

NON-HAZARDOUS WASTE MANIFEST MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/28 As Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.

COMPANY NAME: Coastline (NHD)

ADDRESS: Bristol Pa

Pick-up Date: 1/28/99 Truck No. 041 Vehicle Lic. No. AC 1335

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title:

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

95

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1-28-99 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

G. R. I. D. W. S., INC.
CUSTOMER SERVICE 1-800-778-9797

913691
DATE: 01/28/98
TIME: 11:04-11:27

CUSTOMER: 665
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 0004 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 259156
CONTAM. SOIL/SITE CLEA

PCT	WGT/VOL
100	56660

GROSS: 84840 LBS

TARE: 28180 LBS

NET: 56660 LBS 28.33 TONS

$

TONS DUMPED TODAY: 60.26

0015566 REMARKS _____ SIGN _____ H L

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25925

NON-HAZARDOUS WASTE MANIFEST MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 (No.) Honeywell St. (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: 22 Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/29/98 As Agent For Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.

COMPANY NAME: T.S.D

ADDRESS: WAYNE N.J.

Pick-up Date: 1/29/98 Truck No. 114 Vehicle Lic. No. AC457J

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title:

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1-29-98 (DISPOSAL DATE)

Signature of authorized agent and title:

LANDFILL (MAIL TO GENERATOR)

S. R. O. W. S., INC.
CUSTOMER SERVICE 1-800-778-9797

914019
DATE: 01/29/98
TIME: 12:17-12:49

CUSTOMER: 665
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 0114 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25925
CONTAM. SOIL/SITE CLEA
PCT WGT/VO
100 4928

GROSS: 75600 LBS

TARE: 26320 LBS

NET: 49280 LBS = 24.64 TONS

TONS DUMPED TODAY: 204.70

0015566 REMARKS _____ SIGN _____ E

WASTE MANAGEMENT OF PENNSYLVANIA, INC.
1000 New Ford Mill Road
Morrisville, PA 19067

(215) 736-9400
(215) 736-9475 Laboratory

Document Refer No. 97 25921

NON-HAZARDOUS WASTE MANIFEST MS4931

1. Generator of Waste (must be filled in by producer) EPA I.D. No. NYD078516895

Company Name: (Print or Type) Amtrak National Railroad Passenger Corp.

Pick-up Address 39-29 Honeywell St. (No.) (Street) Long Island City (City) NY (State)

Telephone Number: 212 630-7695 SIC No.

Waste Stream Identification: This manifest represents a non-hazardous waste as per E.P.A. and PA D.E.R. regulations.

Tons: Cubic Yards: Other (Specify):

Name of Waste NON HAZARDOUS SOIL, NON D.O.T. REGULATED

Special Handling Instructions, if any: OPS PILE

PROFILE/WASTE STREAM I.D. NUMBER: 338178N

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 1/29/98 As Agent for Amtrak Signature: (Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.

COMPANY NAME: TSO

ADDRESS: WAYNE N.J.

Pick-up Date: 1/29/98 Truck No. 126 Vehicle Lic. No. TF 179

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.
Signature of authorized agent and title: Robert Bell

3. Disposer of Waste (must be filled-in by disposer) CIRCLE ONE:

G.R.O.W.S., INC.
1513 Bordentown Road
Morrisville, PA 19067
Permit #100148

T.R.R.F.
200 Bordentown Road
Tullytown, PA 19007
Permit #101494 /

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on 1-29-98 (DISPOSAL DATE)

Signature of authorized agent and title: Lou Fazio Jr.

LANDFILL (MAIL TO GENERATOR)

S. P. C. W. S., INC.
CUSTOMER SERVICE 1-800-778-9797

914107
DATE: 01/29/98
TIME: 14:48-15:27

CUSTOMER: 665
CLEAN HARBORS ENVIRONMENTAL-EDISON

HAULER:

PROFILE: 338178N

TRUCK: 0126 WASTE: CON CONTAMINATED SOIL - NATIONAL RAILROAD PASSENGER ORIGIN NEW JERSEY

MANIFEST: 25921
CONTAM. SOIL/SITE CLEA

PCT	WGT/VOL
100	47980

GROSS: 82540 LBS

TARE: 34560 LBS

NET: 47980 LBS = 23.99 TONS

TONS DUMPED TODAY: 302.25

0015566 REMARKS _____ SIGN R Bann E E

APPENDIX I

APPENDIX I

Asphalt and Concrete Disposal Records

☐ Varick Ave. ☐ 73 Place

Waste Management of New York - Hauler Ticket

Date 12.22.97 Manifest # _____ No. 24216

Hauler WM of NY Broker CLEAN HARBORS

Amount Hauled 40 YDS Dump Site 73PL

Truck # 244 Trailer # 04 ☐ Van ☐ Flatbed

Time Arrived 2:26 Time Departed 3:50

Signature of Supervisor _____ Loaded Weight _____

Empty Weight _____

Signature of Driver _____ Net Weight _____

NON REDUCTION

☐ Varick Ave. ☐ 73 Place

Waste Management of New York - Hauler Ticket

Date 12-22-97 Manifest # _____ No. 24213

Hauler WM of NY Broker CLEAN HARBORS

Amount Hauled 40 YDS Dump Site 73PL

Truck # 241 Trailer # 04 ☐ Van ☐ Flatbed

Time Arrived 12:00 OH LUNCH Time Departed 2:10

Signature of Supervisor _____ Loaded Weight _____

Empty Weight _____

Signature of Driver _____ Net Weight _____

NON REDUCTION

Ave. ☐ 73 Place

Waste Management of New York - Hauler Ticket

Date 12-23-97 Manifest # _____ No. 24214

Hauler C.M. of NY Broker Clean Harbors

Amount Hauled 40.40 Dump Site 73 PL

Truck # 252 Trailer # D19 ☐ Van ☐ Flatbed

Time Arrived 705 Time Departed 810

Signature of Supervisor _____ Loaded Weight _____

Empty Weight _____

Signature of Driver J.L.B Net Weight _____

Bolden Concrete

☐ Varick Ave. ☐ 73 Place

Waste Management of New York - Hauler Ticket

Date 12-23-97 Manifest # _____ No. 24218

Hauler W.M. of N.Y. Broker CLEAN HARBORS C.I.C.

Amount Hauled 40.40 Dump Site 73 PL

Truck # 244 Trailer # 04 ☐ Van ☐ Flatbed

Time Arrived 9:00 Time Departed 9:25

Signature of Supervisor _____ Loaded Weight _____

Empty Weight _____

Signature of Driver _____ Net Weight _____

NON REDUCTION

☐ Varick Ave. ☐ 73 Place

Waste Management of New York - Hauler Ticket

Date 12-22-97 Manifest # ____________ No. 24210

Hauler City of NY Broker Clean harbors

Amount Hauled 20 yds Dump Site 73 PL

Truck # 292 Trailer # 019 ☐ Van ☐ Flatbed

Time Arrived 234 Time Departed 300

Signature of Supervisor ____________ Loaded Weight ________

Empty Weight ________

Signature of Driver [signature] Net Weight ________

Broken concrete.

[illegible] Place

[illegible]agement of New York - Hauler [illegible]

[illegible] Manifest # ____________ No. 2[illegible]

Hauler [illegible] NY Broker CLEAN HARBORS

Amount [illegible] YDS Dump Site 73 PL

Truck # ________ Trailer # 04 ☐ Van ☐ Flatbed

Time Arrive[illegible] 5 Time Departed 7:50

Signature of [illegible] [signature] Loaded Weight ________

Empty Weight ________

Signature of [illegible] Net Weight ________

[illegible]N REDUCTION

☐ 73 Place

...nt of New York - Hauler Ticket

17 Manifest # No. 24211

Hauler WM of NY Broker Clan Harbors

Amount Hauled 40 YDs Dump Site 73 PL

Truck # 252 Trailer # 719 ☐ Van ☐ Flatbed

Time Arrived 200 Time Departed 135

Signature of Supervisor Loaded Weight

Empty Weight

Signature of Driver Net Weight

Wait 15 min to start loading

APPENDIX J

APPENDIX J

Liquid Disposal Records

Attn: Larry from: Jeff

WORK ORDER NO. MS4931

DOCUMENT NO. 36301

STRAIGHT BILL OF LADING

TXL # 321

TRANSPORTER 1 Clean Harbors Env. Services, Inc

VEHICLE ID # ME 614111

EPA ID # MAD039322250

TRANS. 1 PHONE 781-849-1800

TRANSPORTER 2

VEHICLE ID #

EPA ID #

TRANS. 2 PHONE

Mail to:National Railroad Passenger Corp.
400 W. 31St. St.,4th floor,NY,NY,10002

Attn: Rich Mohlenhoff (212) 630-6215

DESIGNATED FACILITY			SHIPPER		
Lancaster Oil			National Railroad Passenger Corp.		
FACILITY EPA ID # PAD987266749			SHIPPER EPA ID # NJD078516895		
ADDRESS 1062 Old Manheim Pike			ADDRESS 39-29 Honeywell St.		
CITY Lancaster	STATE PA	ZIP 17601	CITY Long Island City	STATE NY	ZIP 11101

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
01 x 6000	TT		A. USED OIL AND WATER (NON D.O.T. REGULATED)	Est. X2450	G
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS

IN CASE OF SPILL, DIKE AND CONTAIN.
IN CASE OF EMERGENCY, CALL: 1-800-645-8265.
~~NJDEP:~~ DECAL#

Stick reading 51 1/4 - 31 1/4

Shipped with BL36304 Amtrak NY E112 RE NYMA006

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER	As Agent for Amtrak [illegible]	[signature]	2/1/98
TRANSPORTER 1	Richard Engel	Richard Engel	2/1/98
TRANSPORTER 2			
RECEIVED BY	Jeff Ewon	[signature]	2-1-98

1

CHI 107

APPENDIX K

APPENDIX K

Final Survey

E 1,004,200

E 1,004,250

E 1,004,300

N 212,900

N 212,850

N 212,800

1052 18.57 EP1

1053 19.05 EP1

1023 17.75 CONC1

1059 9.21 PIT

1000 17.79 CONC1

DIRT

× 15.89

× 16.46

× 16.60

× 16.04

DIRT

× 16.69

1022 18.31 CONC1

1001 17.90 CONC1

1021 18.30 CONC1

1002 18.02 CONC1

CONC

1047 15.64 CONC5

1027 15.30 CONC2

CONC

1024 15.79 CONC2

1046 15.95 CONC5

BOTTOM OF BOX TRENCH

BOX TRENCH

× 16.16

1045 15.94 CONC5

CONC

1057 9.70 PIT

CONC

1048 15.67 CONC5

1058 10.01 PIT

1026 15.42 CONC2

CONC

1025 15.82 CONC2

1020 17.64 CONC1

1019 17.53 CONC1

1008 17.73 CONC1

1007 17.75 CONC1

1004 17.75 CONC1

1003 18.10 CONC1

× 15.36

× 15.38

1006 17.70 CONC1

1005 17.73 CONC1

15.86 ×

DIRT

× 16.13

DIRT

× 15.83

1018 17.98 CONC1

1009 18.00 CONC1

1017 18.07 CONC1

DIRT

1010 18.10 CONC1

1040 15.46 CONC4

1039 15.42 CONC3

CONC

1036 15.89 CONC3

1043 15.77 CONC4

CONC

BOX TRENCH

BOTTOM OF BOX TRENCH

× 15.35

1042 15.89 CONC4

1041 15.54 CONC4

1056 9.22 PIT

1038 15.24 CONC3

1037 15.92 CONC3

1016 17.90 CONC1

CONC

CONC

1011 17.51 CONC1

DIRT

1055 18.10 EP1

1015 17.52 CONC1

1014 17.26 CONC1

1013 17.15 CONC1

1012 17.42 CONC1

DIRT

1054 18.62 EP1

LEGEND	
EP	EDGE OF PAVEMENT
CONC	CONCRETE
× 15.35	SPOT ELEVATION
1054	POINT #
× 18.62	ELEVATION
EP1	DESCRIPTION

EXCAVATION SURVEY @ AMTRAK
SUNNYSIDE YARDS
QUEENS, NEW YORK

0 10 20 30 40 50 60

SCALE 1" = 10'

N

Topographic Map Prepared by
TOPO-METRICS, INC.
60 Enter Lane
HAUPPAUGE, NY 11788

STATE OF NEW YORK
WILLIAM DOUGLAS MITCHELL
No. 49834
LICENSED LAND SURVEYOR

SURVEYED BY:
WILLIAM D. MITCHELL, RLS
NY LIC. NO. 49834

REVISIONS		
REVISION #	DATE	INITIALS
#1	4-7-98	JRM

APPENDIX L

APPENDIX L

Analytical Data Quality and Usability Evaluation

DATA QUALITY AND USABILITY

An evaluation of the overall quality and usability of the data generated by Industrial Corrosion Management, Inc. (ICM) of Randolph, New Jersey for Operable Unit 1 at Sunnyside Yard, Queens, New York, is addressed below. Fifteen composited concrete chip samples (including one duplicate), seven discrete concrete chip samples, six composited post-remediation soil samples, and six composited stockpile samples were collected. The composited concrete chip samples were analyzed for polycyclic aromatic hydrocarbons (PAHs) (New York State Department of Environmental Conservation [NYSDEC] Analytical Services protocol 'ASP] 95-2), polychlorinated biphenyls (PCBs) (NYSDEC ASP 95-3), and lead (USEPA Contract Laboratory Statement of Work). The discrete concrete chip samples were analyzed for PCBs only (NYSDEC ASP 95-3). The soil samples were analyzed for PAHs using NYSDEC ASP 95-2.

1.0 DATA REVIEW

The data review is presented by sampling parameter and evaluates the following criteria based on the laboratory documentation provided:

- holding times;
- Gas Chromatograph/Mass Spectroscopy (GC/MS) instrument performance check;
- initial calibration;
- continuing calibration;
- blanks;
- surrogate spikes;
- matrix spikes/matrix spike duplicates (MS/MSD) and matrix spike blanks;
- sample duplicates (inorganics);
- laboratory control samples; and
- internal standards.

Data were reviewed for laboratory precision, accuracy, and completeness in accordance with the National Functional Guidelines for Organic Data Review, and the National Functional Guidelines for Inorganic Data Review, as well as the NYSDEC Standard Operating Procedures.

1.1 Polycyclic Aromatic Hydrocarbons

Holding times were met for all sample processing. Initial and continuing calibration standards were within the required limits. Sample matrix spikes and duplicates were performed on samples C-1 and E.W. All recoveries and duplicate correlation values were within recommended limits. The matrix spike blanks were also within the recommended limits. Method blanks and instrument performance checks were compliant with the protocol requirements. Surrogate recoveries and standard area responses/retention times were within the recommended limits with the exceptions noted below.

Sample Number	Compound (Surrogate)	% Recovery	Control Limits
C-12	2,4,6-tribromophenol	6	19-122
C-13	2,4,6-tribromophenol	1	19 -122
C-14	2,4,6-tribromophenol	12	19-122
C-8RE	2,4,6-tribromophenol	3305	19-122
W.WRE	terphenyl-d14	148	18-137
C-1DupRE	terphenyl-d14	192	18-137
C-8RE	terphenyl-d14	184	18-137

Data are not qualified with respect to surrogate recovery unless two or more semivolatile surrogates within the same fraction are out of specification. However, because 2,4,6-tribromophenol was recovered at less than 10 percent in samples C-12 and C-13, only the acid extractable compounds need to be qualified. As the acid extractable compounds are not required for this project, no action is required.

The semivolatile analysis of samples W.W, C-1Dup and C-8 produced depressed responses for internal standards indicating a matrix effect. These samples were reanalyzed and produced the same depressed responses. Detected values for these samples should be qualified as estimated and reported detection limits for these samples should be considered estimated, possibly biased low.

1.2 Polychlorinated Biphenyls

Holding times were met for all sample processing. Method blank, initial and continuing calibration standards were compliant with protocol requirements. Sample matrix spikes and duplicates were performed on samples C-1 and C-11C. All recoveries and duplicate correlation values were within recommended limits in sample C-1. In C-11C, all recoveries and duplicate correlation values were within recommended limits with the following exceptions.

Sample Number	Analyte	Percent Recovery	Control Units
C-11C	Aldrin	135 (MS)	34-132
C-11C	Endrin	30 (MS)	42-139
C-11C	4,4'-DDT	136 (MS)	23-134
C-11C	Heptachlor	34 (MSD)	35-130

Matrix spike blank and quality control check standard recoveries were within the required range. Surrogate standard recoveries met protocol requirements with the exceptions provided below.

Sample	Compound	% Recovery	Control Limits
C-4	Tetrachloro-m-xylene (TCX)	189	30-150
	Decachlorobiphenyl (DCB)	158	30-150
C-9	TCX	158	30-150
C-11DL	DCB	0/4410*	30-150
C-13	DCB	163/153*	30-150
	TCX	173/184*	30-150

* Both columns

The high recoveries of these surrogates indicates a high bias due to co-eluting interferences. All detected PCBs in the samples listed above are qualified as estimated; nondetects are not qualified.

1.3 Lead

All protocol requirements for sample processing and quality control were evaluated and were found to be compliant and acceptable.

2.0 OVERALL DATA QUALITY/USABILITY ASSESSMENT

Based upon the evaluation of the data, and a review of laboratory and field quality assurance/quality control, the chemical data generated have generally met the data quality objectives established for the sampling.

2.1 Precision

The overall precision review was based upon laboratory and field duplicate samples. It should be noted that the results are expected to exhibit variability due to the difficulty in collecting identical field samples based on the concrete chips being intact. A review of laboratory duplicate samples, as measured by the sample duplicate (lead) and MS/MSD results demonstrates adequate reproduction of all sample results when detectable concentrations of analytes were present.

A review of field duplicate results demonstrates that acceptable precision was determined where sample concentration exceeded five times the Contract Required Quantitation/Detection Limit. For PCBs, the Relative Percent Difference for duplicate sample C-1 was 24% for Aroclor-1254 which indicates adequate duplication.

2.2 Accuracy

The accuracy of the chemical data generated was reviewed based on the results for holding times, laboratory control samples, calibration criteria, spiked samples, and surrogate standards. Based upon this review, the accuracy of the chemical analyses is acceptable.

2.3 Completeness

The data completeness as measured by the percentage of overall usable data is considered acceptable based on the data review.