RESULTS OF LEAD TRACK NO. 6
SOIL INVESTIGATION

Sunnyside Yard
Queens, New York

October 1, 1997

ROUX Associates, Inc.
ENVIRONMENTAL CONSULTING & MANAGEMENT

RESULTS OF LEAD TRACK NO. 6 SOIL INVESTIGATION

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Queens, New York

October 1, 1997

Prepared for:

National Railroad Passenger Corporation
30th Street Station
4th Floor South
Philadelphia, Pennsylvania 19104

Prepared by:

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ROUX

CONTENTS

TABLES

FIGURES

1.0 INTRODUCTION

The National Railroad Passenger Corporation (Amtrak) owns a 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). Portions of the Yard have 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). Additionally, modifications to other areas of the Yard are required to accommodate the HSTF program including the removal of Lead Track No. 6, as discussed below in Section 1.1.

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, 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 throughout the Yard, including, but not limited to, remedial investigations and a risk assessment. Each of these investigations was performed by Roux Associates, Inc. (Roux Associates). 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. The operable units, shown in Figure 2, 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 lay down 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.

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:

- Semivolatile organic compounds (SVOCs) - 10 parts per million (ppm) for both surface and subsurface soil for total carcinogenic polycyclic aromatic hydrocarbons (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 address specific soil cleanup levels for volatile organic compounds (VOCs), since none were detected at the Yard above the RSCOs.

1.1 Project Description and Objectives

In order to allow normal Yard activities to continue during HSTF construction activities, track modifications, including the removal of Lead Track No. 6, located in OU-4, were required.

At Amtrak's request, Roux Associates prepared the 1997 Work Plan titled "Work Plan for the Delineation of Lead Track No. 6, Sunnyside Yard, Queens, New York" (Work Plan). The Work Plan was designed to delineate, in-situ, the vertical and horizontal extent of previously identified CPAH concentrations above the NYSDEC-recommended soil cleanup level prior to excavation

and removal of the track and ballast layer. In addition, at the NYSDEC's request, the soil in the Lead Track No. 6 work area was further characterized for the contaminants of concern at the Yard (PCBs, CPAHs, and lead). The Work Plan was approved by the NYSDEC on June 18, 1997 and was implemented on June 30, 1997. This report presents the results of the investigation.

2.0 PREVIOUS INVESTIGATIONS

During a previous investigation to support HSTF-related track modifications, three locations were identified on Lead Track No. 6 (L6-1, L6-3, and L6-4, as shown in Figure 3) where CPAH concentrations exceeded the Yard-specific soil cleanup level of 10 ppm. It is important to note that samples were collected from the 0 to 2 feet below land surface (bls) interval during this initial investigation and included the entire ballast layer. As shown in Table 2, CPAH exceedances ranged from 13.35 ppm to 50.82 ppm. No PCBs or lead concentrations exceeded their respective NYSDEC recommended soil cleanup levels.

3.0 METHODS OF INVESTIGATION

To achieve the objectives of the investigation, a total of 11 soil borings (L6-1 through L6-11, Figure 3) were completed and sampled. To ensure that the soil borings would not disrupt any unmapped utilities, Amtrak requested that at a minimum, the first three feet of all soil borings be advanced by hand. For this investigation, all soil borings were completed to 4 feet bls using hand tools (i.e., posthole digger and/or hand auger).

3.1 Soil Boring and Sampling Program

The Lead Track No. 6 soil boring and sampling program was completed on June 30, 1997. The soil borings were completed by Land, Air, Water Environmental Services, Inc., Center Moriches, New York under the supervision of Roux Associates. The soil sampling was performed by Roux Associates. All field work was completed in accordance with the scope of work as specified in the NYSDEC-approved Work Plan. The analytical program (PCBs, CPAHs and lead) was completed by AEN Laboratory, Monroe, Connecticut following 1995 NYSDEC Analytical Services Protocols CLP Methods with Category B deliverables.

All downhole equipment was decontaminated prior to beginning each soil boring and all sampling equipment was decontaminated prior to collecting each sample interval. Amtrak intends to excavate and properly dispose of the entire length of the Lead Track No. 6 work area to a depth of approximately 1 foot bls (i.e., to the bottom of existing ballast) in order to remove existing ties and rails. Therefore, for this investigation, sample collection at each location began at the bottom of existing ballast. Previously sampled locations (L6-1 through L6-5) were resampled adjacent to the original borehole.

Three soil samples from consecutive 1 foot depth intervals beginning at the bottom of ballast were collected at each soil boring location. Excavated soil from each distinct sampling interval was placed on clean plastic sheeting, homogenized, and a representative sample collected. The lithology of all samples was recorded in the project field book. All samples were labeled and placed on ice immediately following collection and during transport to the laboratory.

4.0 DISCUSSION OF RESULTS

A total of 11 soil borings were completed for this investigation in accordance with the NYSDEC-approved Work Plan. The soil borings, as shown in Figure 3, were designated L6-1 through L6-11. Soil samples from three successive, distinct depth intervals (0 to 1 foot, 1 to 2 feet, and 2 to 3 feet below ballast) were collected from each boring location and analyzed in accordance with the Work Plan (i.e., successive depth intervals at each location would be analyzed until concentrations of the contaminants of concern were below NYSDEC recommended soil cleanup levels). However, in response to NYSDEC's concern regarding their interpretation of the analytical program, all three sample intervals were analyzed from Soil Borings L6-1, L6-3, L6-4, and L6-5 where previous data indicated CPAH concentrations approached or exceeded the NYSDEC-recommended cleanup level.

The lithology encountered generally consisted of approximately 1 foot of ballast with fine to coarse sand, gravel, coal ash and cinders overlying orange/brown fine to coarse sand with a trace of gravel.

The analytical data are presented in Tables 1 through 3 and are summarized below.

Polychlorinated Biphenyls - Results of the PCB analyses are presented in Table 1. As shown in the table, PCB concentrations range from not detected in two samples to 480 micrograms per kilogram (µg/kg) or 0.48 ppm in sample L6-4 (2-3), which is well below the NYSDEC recommended soil cleanup level for PCBs of 25 ppm.

Carcinogenic Polycyclic Aromatic Hydrocarbons - Results of the CPAH analyses are presented in Table 2. As shown in the table, CPAH concentrations range from not detected in four samples to a high of 1,430 µg/kg or 1.43 ppm in sample L6-1 (0-1), which is well below the NYSDEC recommended soil cleanup level for CPAHs of 10 ppm.

Lead - Results of the lead analyses are presented in Table 3. As shown in the table, lead concentrations range from 2 milligrams per kilogram (mg/kg) or 2 ppm in sample L6-3 (2-3) to 90.1 mg/kg or 90.1 ppm in sample L6-4 (1-2), which is well below the NYSDEC recommended soil cleanup level for lead of 1,000 ppm.

5.0 SUMMARY AND CONCLUSIONS

In summary, the analytical results for the Lead Track No. 6 soil indicate that no NYSDEC recommended soil cleanup levels for the contaminants of concern at the Yard were exceeded in any soil sample collected at a depth greater than 1-foot bls (i.e., below the ballast interval).

In conclusion, based on the results of this investigation, it is Amtrak's position that the CPAH contamination above the NYSDEC-recommended soil cleanup level is limited to the 0 to 1-foot bls (ballast layer) interval at locations L6-1, L6-3, and L6-4. Because Amtrak will be excavating and properly disposing of the ballast layer (approximately 1 foot bls) for the entire Lead Track No. 6 work area, Roux Associates, on behalf of Amtrak, is requesting that the NYSDEC confirm in writing that no further action (other than excavation and disposal of the ballast layer) will be required for the Lead Track No. 6 work area.

Respectfully Submitted,

ROUX ASSOCIATES, INC.

Harry Gregory
Project Hydrogeologist/
Project Manager

Joseph D. Duminuco
Principal Hydrogeologist/
Office Manager

TABLES

Table 1. Summary of Polychlorinated Biphenyl Compounds Detected in Soil Samples Collected from Lead Track No. 6, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC Recommended Soil Cleanup Level	Sample Designation: L6-1 Sample Depth (ft bls): 0-2 Sample Date: 4/7/97	L6-1 0-1 6/30/97	L6-1 1-2 6/30/97	L6-1 2-3 6/30/97	L6-2 0-2 4/7/97	L6-2 0-1 6/30/97	L6-3 0-2 4/7/97	L6-3 0-1 6/30/97
Aroclor-1016	--	1900 U	36 U	35 U	35 U	75 U	34 U	740 U	37 U
Aroclor-1221	--	3900 U	73 U	72 U	72 U	150 U	70 U	1500 U	74 U
Aroclor-1232	--	1900 U	36 U	35 U	35 U	75 U	34 U	740 U	37 U
Aroclor-1242	--	1900 U	36 U	35 U	35 U	75 U	34 U	740 U	37 U
Aroclor-1248	--	1900 U	36 U	35 U	35 U	75 U	34 U	740 U	37 U
Aroclor-1254	--	**2600**	**36**	**140**	**130**	**67 J**	34 U	**690 J**	**15 J**
Aroclor-1260	--	**2800**	**150**	**110**	**180**	**290**	34 U	**1400**	**19 J**
Total Aroclors	25,000	**5400**	**186**	**250**	**310**	**357**	0	**2090**	**34**

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
U - Compound was analyzed for but not detected
J - Estimated value

Table 1. Summary of Polychlorinated Biphenyl Compounds Detected in Soil Samples Collected from Lead Track No. 6, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC Recommended Soil Cleanup Level	**Sample Designation:** L6-3	L6-3	L6-4	L6-4	L6-4	L6-4	L6-5	L6-5
		Sample Depth (ft bls): 1-2	2-3	0-2	0-1	1-2	2-3	0-2	0-1
		Sample Date: 6/30/97	6/30/97	4/7/97	6/30/97	6/30/97	6/30/97	4/7/97	6/30/97
Aroclor-1016	--	34 U	34 U	760 U	35 U	36 U	180 U	370 U	35 U
Aroclor-1221	--	70 U	69 U	1500 U	72 U	73 U	360 U	740 U	70 U
Aroclor-1232	--	34 U	34 U	760 U	35 U	36 U	180 U	370 U	35 U
Aroclor-1242	--	34 U	34 U	760 U	35 U	36 U	180 U	370 U	35 U
Aroclor-1248	--	34 U	34 U	760 U	35 U	36 U	180 U	370 U	35 U
Aroclor-1254	--	**4.4 J**	34 U	**1000**	**31 J**	**15 J**	**140 J**	**580**	**7.1**
Aroclor-1260	--	**4.9 J**	34 U	**3300**	**380**	**45**	**340**	**1600**	**33 J**
Total Aroclors	25,000	**9.3**	0	**4300**	**411**	**60**	**480**	**2180**	**40.1**

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
U - Compound was analyzed for but not detected
J - Estimated value

Table 1. Summary of Polychlorinated Biphenyl Compounds Detected in Soil Samples Collected from Lead Track No. 6, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC Recommended Soil Cleanup Level	L6-5 1-2 6/30/97	L6-5 2-3 6/30/97	L6-6 0-1 6/30/97	L6-7 0-1 6/30/97	L6-8 0-1 6/30/97	L6-9 0-1 6/30/97	L6-10 0-1 6/30/97	L6-11 0-1 6/30/97
Sample Designation:		**L6-5**	**L6-5**	**L6-6**	**L6-7**	**L6-8**	**L6-9**	**L6-10**	**L6-11**
Sample Depth (ft bls):		**1-2**	**2-3**	**0-1**	**0-1**	**0-1**	**0-1**	**0-1**	**0-1**
Sample Date:		**6/30/97**	**6/30/97**	**6/30/97**	**6/30/97**	**6/30/97**	**6/30/97**	**6/30/97**	**6/30/97**
Aroclor-1016	--	34 U	34 U	34 U	35 U	36 U	34 U	34 U	34 U
Aroclor-1221	--	69 U	70 U	70 U	71 U	73 U	70 U	69 U	70 U
Aroclor-1232	--	34 U	34 U	34 U	35 U	36 U	34 U	34 U	34 U
Aroclor-1242	--	34 U	34 U	34 U	35 U	36 U	34 U	34 U	34 U
Aroclor-1248	--	34 U	34 U	34 U	35 U	36 U	34 U	34 U	34 U
Aroclor-1254	--	**18 J**	**12 J**	**24 J**	**34 J**	**15 J**	34 U	**6.3 J**	**27 J**
Aroclor-1260	--	**47**	**22 J**	**43**	**75**	**170**	**8.2 J**	**18 J**	**97**
Total Aroclors	25,000	**65**	**34**	**67**	**109**	**185**	**8.2**	**24.3**	**124**

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
U - Compound was analyzed for but not detected
J - Estimated value

Table 2. Summary of Carcinogenic Polycyclic Aromatic Hydrocarbons Detected in Soil Samples Collected from Lead Track No. 6, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC Recommended Soil Cleanup Level	**Sample Designation:** **L6-1** **Top of Interval:** **0-2** **Sample Date:** **4/7/97**	**L6-1** **0-1** **6/30/97**	**L6-1** **1-2** **6/30/97**	**L6-1** **2-3** **6/30/97**	**L6-2** **0-2** **4/7/97**	**L6-2** **0-1** **6/30/97**	**L6-3** **0-2** **4/7/97**	**L6-3** **0-1** **6/30/97**	**L6-3** **1-2** **6/30/97**
Benzo(a)anthracene	--	**2000**	**160 J**	**31 J**	**100 J**	**450**	**55 J**	**14000**	**190 J**	340 U
Benzo(a)pyrene	--	**1900**	**160 J**	**23 J**	**87 J**	**460**	**54 J**	**8500**	**170 J**	340 U
Benzo(b)fluoranthene	--	**4000**	**330 J**	**73 J**	**220 J**	**850**	**50 J**	**6000 J**	**140 J**	340 U
Benzo(k)fluoranthene	--	**2900**	**280 J**	**39 J**	**120 J**	**450**	**65 J**	7600 U	**180 J**	340 U
Chrysene	--	**3900**	**260 J**	350 U	350 U	**840**	**66 J**	**21000**	**190 J**	340 U
Dibenzo(a,h)anthracene	--	**230 J**	360 U	350 U	350 U	**38 J**	340 U	**410 J**	370 U	340 U
Indeno(1,2,3-cd)pyrene	--	**700 J**	**240 J**	**220 J**	**300 J**	**100 J**	**45 J**	**910 J**	**140 J**	340 U
Total CPAHs	10,000	**15630**	**1430**	**386**	**827**	**3188**	**335**	**50820**	**1010**	0

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
U - Compound was analyzed for but not detected
J - Estimated value

Table 2. Summary of Carcinogenic Polycyclic Aromatic Hydrocarbons Detected in Soil Samples Collected from Lead Track No. 6, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC Recommended Soil Cleanup Level	Sample Designation: L6-3 Top of Interval: 2-3 Sample Date: 6/30/97	L6-4R 0-2 4/7/97	L6-4 0-1 6/30/97	L6-4 1-2 6/30/97	L6-4 2-3 6/30/97	L6-5 0-2 4/7/97	L6-5 0-1 6/30/97	L6-5 1-2 6/30/97	L6-5 2-3 6/30/97
Benzo(a)anthracene	--	340 U	1400	220 J	31 J	120 J	1200	80 J	35 J	13 J
Benzo(a)pyrene	--	340 U	1400	230 J	31 J	180 J	1100	56 J	35 J	26 J
Benzo(b)fluoranthene	--	340 U	3800	320 J	64 J	330 J	2700	87 J	79 J	34 J
Benzo(k)fluoranthene	--	340 U	3200	290 J	37 J	220 J	1600	68 J	70 J	23 J
Chrysene	--	340 U	3200	320 J	360 U	350 U	2400	110 J	340 U	340 U
Dibenzo(a,h)anthracene	--	340 U	770 U	350 U	360 U	350 U	180 J	350 U	340 U	340 U
Indeno(1,2,3-cd)pyrene	--	340 U	350 J	45 J	240 J	280 J	550	50 J	210 J	190 J
Total CPAHs	10,000	0	13350	1425	403	1130	8130	451	429	286

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
U - Compound was analyzed for but not detected
J - Estimated value

Table 2. Summary of Carcinogenic Polycyclic Aromatic Hydrocarbons Detected in Soil Samples Collected from Lead Track No. 6, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC Recommended Soil Cleanup Level	**Sample Designation:** **L6-6**	**L6-7**	**L6-8**	**L6-9**	**L6-10**	**L6-11**
		Top of Interval: **0-1**	**0-1**	**0-1**	**0-1**	**0-1**	**0-1**
		Sample Date: **6/30/97**	**6/30/97**	**6/30/97**	**6/30/97**	**6/30/97**	**6/30/97**
Benzo(a)anthracene	--	340 U	**58 J**	**70 J**	340 U	**23 J**	**26 J**
Benzo(a)pyrene	--	340 U	**45 J**	**69 J**	340 U	340 U	**61 J**
Benzo(b)fluoranthene	--	340 U	**120 J**	**110 J**	340 U	**36 J**	**66 J**
Benzo(k)fluoranthene	--	340 U	**63 J**	**97 J**	340 U	**43 J**	**59 J**
Chrysene	--	340 U	**92 J**	**100 J**	340 U	**36 J**	**52 J**
Dibenzo(a,h)anthracene	--	340 U	350 U	360 U	340 U	340 U	340 U
Indeno(1,2,3-cd)pyrene	--	340 U	**79 J**	**100 J**	340 U	340 U	**41 J**
Total CPAHs	10,000	0	**457**	**546**	0	**138**	**305**

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
U - Compound was analyzed for but not detected
J - Estimated value

Table 3. Summary of Lead Concentrations Detected in Soil Collected from Lead Track No. 6, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in mg/kg)	NYSDEC Recommended Soil Cleanup Level	L6-1 0-2 4/7/97	L6-1 0-1 6/30/97	L6-1 1-2 6/30/97	L6-1 2-3 6/30/97	L6-2 0-2 4/7/97	L6-2 0-1 6/30/97	L6-3 0-2 4/7/97	L6-3 0-1 6/30/97
Sample Designation:		**L6-1**	**L6-1**	**L6-1**	**L6-1**	**L6-2**	**L6-2**	**L6-3**	**L6-3**
Sample Depth (ft bls):		**0-2**	**0-1**	**1-2**	**2-3**	**0-2**	**0-1**	**0-2**	**0-1**
Sample Date:		**4/7/97**	**6/30/97**	**6/30/97**	**6/30/97**	**4/7/97**	**6/30/97**	**4/7/97**	**6/30/97**
Lead	1,000	**745**	**45.6**	**19.2**	**38.1**	**198**	**17.6**	**159**	**25.3**

mg/kg - Milligrams per kilogram
ft bls - Feet below land surface

Table 3. Summary of Lead Concentrations Detected in Soil Collected from Lead Track No. 6, Sunnyside Yard, Queens, New York.

	Sample Designation:	L6-3	L6-3	L6-4	L6-4	L6-4	L6-4	L6-5	L6-5
	Sample Depth (ft bls):	1-2	2-3	0-2	0-1	1-2	2-3	0-2	0-1
	Sample Date:	6/30/97	6/30/97	4/7/97	6/30/97	6/30/97	6/30/97	4/7/97	6/30/97
Parameter (Concentrations in mg/kg)	NYSDEC Recommended Soil Cleanup Level								
Lead	1,000	4.8	2	273	66.5	90.1	78.6	151	9.8

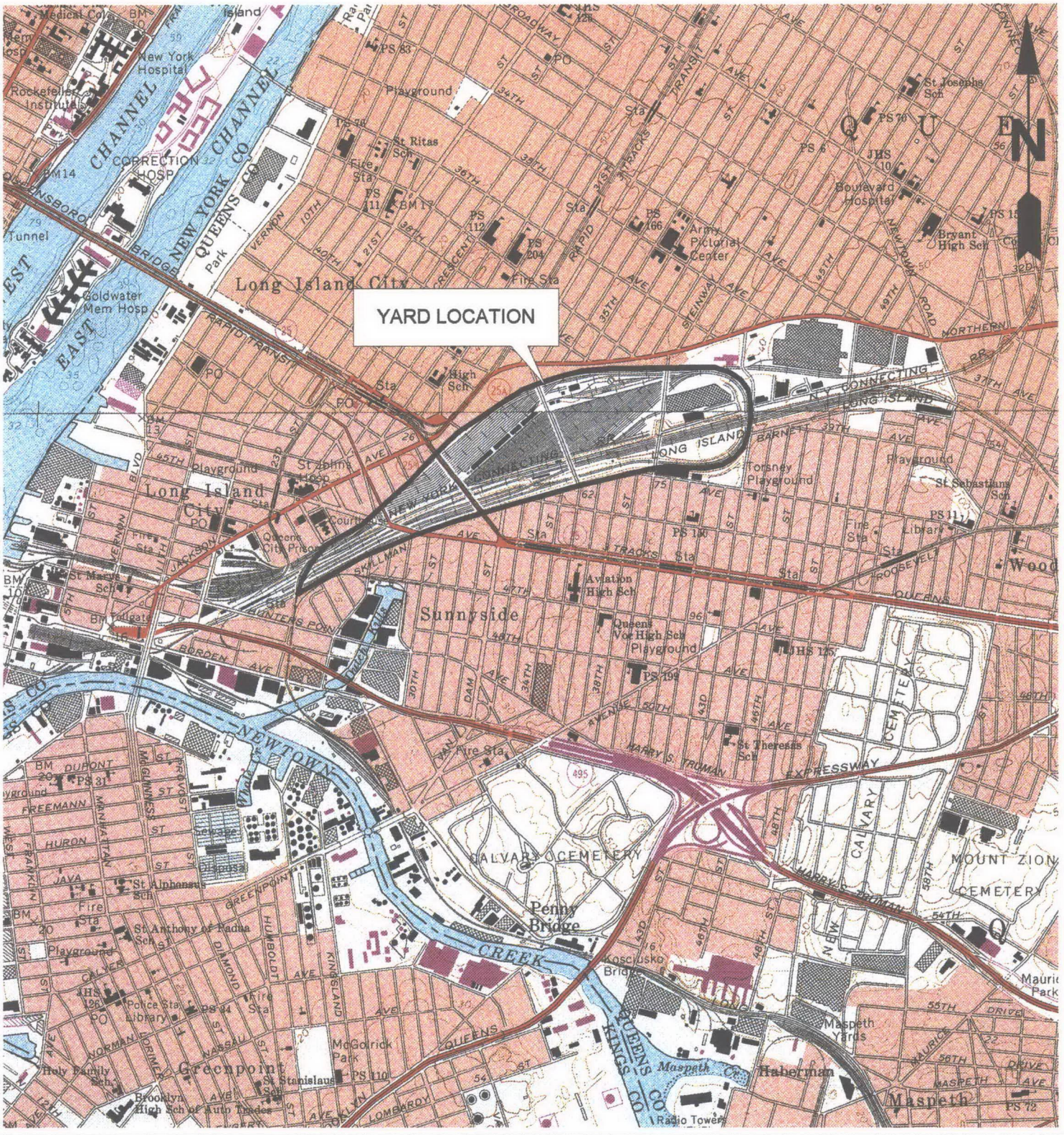
mg/kg - Milligrams per kilogram
ft bls - Feet below land surface

Table 3. Summary of Lead Concentrations Detected in Soil Collected from Lead Track No. 6, Sunnyside Yard, Queens, New York.

	Sample Designation:	L6-5	L6-5	L6-6	L6-7	L6-8	L6-9	L6-10	L6-11
	Sample Depth (ft bls):	1-2	2-3	0-1	0-1	0-1	0-1	0-1	0-1
	Sample Date:	6/30/97	6/30/97	6/30/97	6/30/97	6/30/97	6/30/97	6/30/97	6/30/97
Parameter (Concentrations in mg/kg)	NYSDEC Recommended Soil Cleanup Level								
Lead	1,000	**10.1**	**6.6**	**4.5**	**22.4**	**25.3**	**3.3**	**6.6**	**10.8**

mg/kg - Milligrams per kilogram
ft bls - Feet below land surface

FIGURES



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

Title:

YARD LOCATION MAP

SUNNYSIDE YARD
QUEENS, NEW YORK

Prepared For:

AMTRAK

ROUX ASSOCIATES INC
Environmental Consulting & Management

Compiled by:	J.D.	Date:	9/97	FIGURE 1
Prepared by:	R.R.	Scale:	1"=2,000'	
Project Mgr:	J.D.	Status:	Final	
File No:	A5214601	Project:	05552Y04	

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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-5, GROUND WATER BENEATH THE YARD, IS NOT SHOWN.

Title:

LOCATION OF OPERABLE UNITS

SUNNYSIDE YARD, QUEENS, NEW YORK

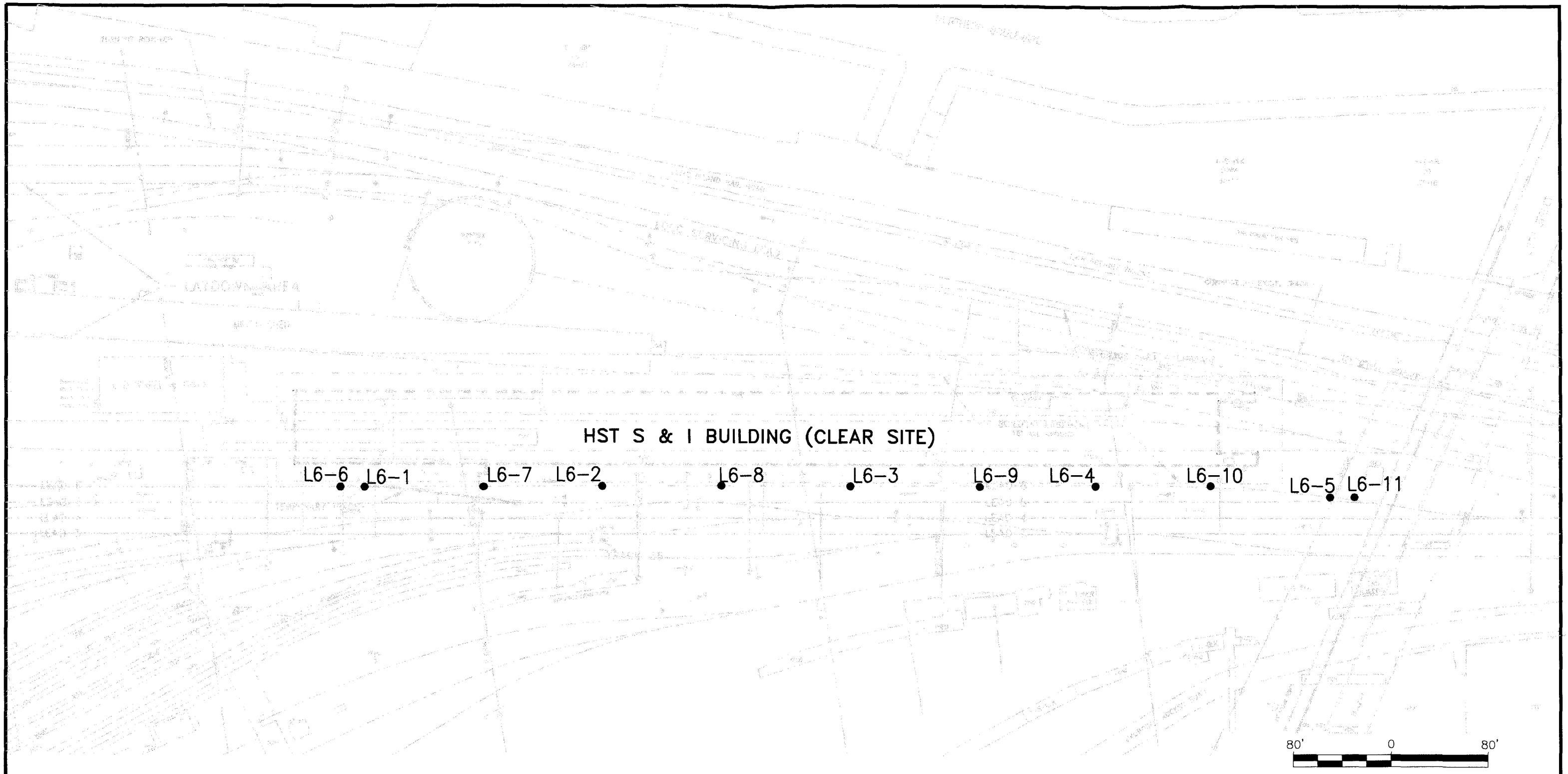
Prepared For:

AMTRAK

ROUX ASSOCIATES INC
Environmental Consulting & Management

Compiled by: H.G.	Date: 9/97	FIGURE
Prepared by: R.K.	Scale: AS SHOWN	2
Project Mgr: H.G.	Status: FINAL	
File No: A5214603	Project: 05552Y04	

N:\AM055Y\AM52Y\119\52123011.DWG



LEGEND

L6-1 ● SOIL BORING LOCATION AND DESIGNATION

LEAD TRACK NO.6 SAMPLE LOCATION MAP

SUNNYSIDE YARD
QUEENS, NY

Prepared For: AMTRAK

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Compiled by: H.C.	Date: 9/97	FIGURE
Prepared by: R.K.	Scale: As Shown	3
Project Mgr: H.C.	Status: FINAL	
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