

March 11, 2026

Christopher Allan, PE
Professional Engineer 1
Region 2 - Division of Environmental Remediation
New York State Department of Environmental Conservation
47-40 21st Street, Long Island City, New York 11101

Re: SPH Monitoring/Recovery Plan
Sunnyside Yard
39-29 Honeywell Street, Queens, New York

Dear Mr. Allan:

Roux Environmental Engineering and Geology, D.P.C. (Roux), on behalf of National Railroad Passenger Corporation (Amtrak), has prepared this Separate Phase Hydrocarbon (SPH) Monitoring/Recovery Plan (Plan) for Sunnyside Yard to address SPH encountered at monitoring well SISB-13 during spill delineation activities for the Acela Ready Tracks project. Sunnyside Yard (the "Yard") is located at 39-29 Honeywell Street, Queens, NY and is currently in the New York State Inactive Hazardous Waste Disposal Site Remedial Program, Site No. 241006, which is administered by the New York State Department of Environmental Conservation (NYSDEC). This work was completed in relation to NYSDEC Spill #2209440 and Spill #2406650. This Plan provides a background of delineation activities and findings completed at the Yard and describes the frequency, duration, and modes of the proposed monitoring and recovery of SPH.

NYSDEC Spill #2209440 and #2406550

On February 23, 2023, and March 8, 2023, petroleum contamination (stained/odorous soil and SPH) was encountered at approximately 10 feet below grade during Acela Ready Tracks project related excavation activities in the areas shown on Figure 1. As a result, and in consultation with Amtrak, Roux called in a spill to NYSDEC, and Spill #2209440 was assigned. Roux oversaw initial delineation test pits conducted by Amtrak's contractor, Railroad Construction Company (RCC) on April 6, 2023, and May 25, 2023, in an attempt to delineate the stained/odorous soil and SPH. After completing 12 test pits, the spill area was not able to be fully delineated in all directions.

In September 2024, petroleum contamination was encountered approximately 2 feet below grade during Acela Ready Tracks project related excavation activities in the area shown on Figure 1. As a result, and in consultation with Amtrak, Roux called in a spill to NYSDEC, and Spill #2406650 was assigned.

Spill Investigation Scope of Work and Results

The investigation was completed in accordance with the Spill Investigation Work Plan dated May 16, 2025 and approved by NYSDEC on June 9, 2025. All investigative work was completed from September 8 to 30, 2025 and December 1 to 3, 2025. Proposed soil borings SISB-6 through SISB-8 could not be installed due to the proximity of railroad tracks. Because of this, a total of 16 soil borings were completed during field work out of the initially proposed 19 soil borings. Reports detailing the

investigation and summarizing the community air monitoring plan results were submitted to NYSDEC daily.

Monitoring wells were installed at a soil boring if evidence of impact (grossly contaminated soils, photoionization device [PID] readings, odors, etc.) were encountered during soil boring advancement. A total of six monitoring wells (SISB-1, SISB-2, SISB-3, SISB-10, SISB-13, SISB-14) were installed during the investigation of Spill #2209440 due to evidence of impact. However, SISB-1 was inadvertently damaged during construction operations and could not be reinstalled due to the proximity of newly installed railroad tracks. Although no evidence of impact was encountered at soil borings completed around Spill #2406650, a monitoring well was installed at SISB-15. Additionally, four soil samples were collected from soil boring intervals displaying evidence of impact and one soil sample was collected from SISB-18. The location of the soil borings and monitoring wells are shown on the attached Figure 1. Soil boring logs are included as Attachment 1.

During the investigation, five soil samples were collected from the following soil borings and depth intervals: SISB-1 (9-11 feet below land surface [ft bls]), SISB-2 (8-10 ft bls), SISB-2 (12-14 ft bls), SISB-13 (8-10 ft bls), and SISB-18 (5.5-7.5 ft bls). Soil samples were collected from intervals displaying evidence of impact, except for the sample collected from SISB-18. The sample from SISB-18 was collected to ensure soil was analyzed from both NYSDEC Spill areas. Collected samples were submitted for laboratory analysis of semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs) and metals, which are the constituents of concern (COCs) for Sunnyside Yard. Samples were submitted to Eurofins TestAmerica of Edison, NJ (NYSDOH National Environmental Laboratory Approval Program [NELAP] and ELAP #11452). All sample results were below the Site-Specific action soil cleanup levels (lead $\leq 3,900$ milligrams per kilogram (mg/kg), PCBs ≤ 25 mg/kg), and total SVOCs ≤ 500 mg/kg) and are included as Tables 1 through 3.

The installed monitoring wells were gauged on December 3, 2025 and the results are detailed in the table below.

Well Number	Corresponding NYSDEC Spill	Elevation of Grade (ft msl)	Elevation of Measuring Point (ft msl)	Depth of Well (ft below measuring point)	December 3, 2025			
					Depth of Water (ft below measuring point)	Depth to Product (ft below measuring point)	Product Thickness (ft)	Groundwater Elevation (ft msl)
SISB-2	#2209440	19.05	22.97	18.18	14.05	--	--	8.92
SISB-3	#2209440	16.45	19.39	17.00	9.85	--	--	9.54
SISB-10	#2209440	16.23	16.01	14.00	7.05	--	--	8.96
SISB-13	#2209440	16.60	19.60	17.89	10.89	10.62	0.27	8.71
SISB-14	#2209440	16.36	21.04	15.89	6.95	--	--	14.09
SISB-15	#2406650	16.93	16.20	11.10	5.36	--	--	10.84

Note: Elevations refer to North American Vertical Datum of 1988 (NAVD88).

SPH Monitoring/Recovery Plan

Based on these gauging and laboratory results, Roux recommends closing Spill #2406650 as there was no evidence of impact encountered during the investigation, no sample results above the Site-Specific action soil cleanup levels, and no product observed in the installed monitoring well.

Regarding Spill #2209440, only one of the five monitoring wells were identified with measurable separate phase product. As such, the spill area appears to be horizontally delineated. In response to the measurable product, Roux proposes to initially utilize a vacuum truck to remove the measurable product from monitoring well SISB-13. Following the extraction event, Roux will then complete monthly gauging of all monitoring wells in the vicinity of Spill 2209440 and, if there is greater than 0.1 foot of

product detected during gauging, Roux will complete subsequent vacuum events of the respective monitoring wells. If product is not measured within any monitoring well over three months of gauging, Roux will recommend closing Spill #2209440 to NYSDEC.

Sincerely,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.



Jack Rusk
Project Geologist



Matthew Smith
Senior Scientist



Jeff Wills, P.G.
Principal Geologist/Operations Manager

Attachments

Separate Phase Hydrocarbon (SPH) Monitoring/Recovery Plan
Sunnyside Yard - 39-29 Honeywell Street, Queens, New York

TABLES

1. Summary of Semivolatile Organic Compounds in Soil
2. Summary of Metals in Soil
3. Summary of Polychlorinated Biphenyls in Soil

Notes Utilized Throughout Tables	
Soil Tables	
J -	Estimated value
U -	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit
T -	Indicates that a quality control parameter has exceeded laboratory limits
ft bls -	Feet below land surface
mg/kg -	Milligrams per kilogram
NYSDEC -	New York State Department of Environmental Conservation
SCO -	Soil Cleanup Objectives
--	No SCO available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use SCO	

Table 1. Summary of Semivolatile Organic Compounds in Soil, Sunnyside Yard, Long Island City, New York

Sample Designation:			SISB-1	SISB-2	SISB-2	SISB-13	SISB-18
Sample Date:			09/15/2025	09/10/2025	09/11/2025	09/17/2025	09/09/2025
Sample Depth (ft bls):			9 - 11	8 - 10	12 - 14	8 - 10	5.5 - 7.5
Parameter	NYSDEC Part 375 Industrial SCO	Units					
1,2,4,5-Tetrachlorobenzene	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
1,4-Dioxane (P-Dioxane)	36	MG/KG	0.037 U	0.037 U	0.035 U	0.036 U	0.038 U
2,3,4,6-Tetrachlorophenol	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
2,4,5-Trichlorophenol	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
2,4,6-Trichlorophenol	--	MG/KG	0.15 U	0.15 U	0.14 U	0.15 U	0.15 U
2,4-Dichlorophenol	--	MG/KG	0.15 U	0.15 U	0.14 U	0.15 U	0.15 U
2,4-Dimethylphenol	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
2,4-Dinitrophenol	--	MG/KG	0.29 U	0.29 U	0.28 U	0.29 U	0.31 U
2,4-Dinitrotoluene	--	MG/KG	0.074 U	0.074 U	0.071 U	0.073 U	0.078 U
2,6-Dinitrotoluene	--	MG/KG	0.074 U	0.074 U	0.071 U	0.073 U	0.078 U
2-Chloronaphthalene	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
2-Chlorophenol	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
2-Methylnaphthalene	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
2-Methylphenol (O-Cresol)	1000	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
2-Nitroaniline	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
2-Nitrophenol	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
3,3'-Dichlorobenzidine	--	MG/KG	0.15 U	0.15 U	0.14 U	0.15 U	0.15 U
3-Nitroaniline	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
4,6-Dinitro-2-Methylphenol	--	MG/KG	0.29 U	0.29 U	0.28 U	0.29 U	0.31 U
4-Bromophenyl Phenyl Ether	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
4-Chloro-3-Methylphenol	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
4-Chloroaniline	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
4-Chlorophenyl Phenyl Ether	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
4-Methylphenol (P-Cresol)	1000	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
4-Nitroaniline	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
4-Nitrophenol	--	MG/KG	0.74 U	0.74 U	0.71 U	0.73 U	0.78 U
Acenaphthene	1000	MG/KG	0.14 J	0.22 J	0.21 J	0.53	0.38 U
Acenaphthylene	1000	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Acetophenone	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Anthracene	1000	MG/KG	0.48	0.11 J	0.35 U	0.31 J	0.38 U
Atrazine	--	MG/KG	0.15 U	0.15 U	0.14 UT	0.15 U	0.15 UT
Benzaldehyde	--	MG/KG	0.37 U	0.37 U	0.35 UT	0.36 U	0.38 UT
Benzo(A)Anthracene	37	MG/KG	0.82	0.043	0.093	0.1	0.038 U
Benzo(A)Pyrene	3.7	MG/KG	0.72	0.037	0.073	0.059	0.038 U
Benzo(B)Fluoranthene	37	MG/KG	0.86	0.046	0.092	0.073	0.038 U

Table 1. Summary of Semivolatile Organic Compounds in Soil, Sunnyside Yard, Long Island City, New York

Sample Designation:			SISB-1	SISB-2	SISB-2	SISB-13	SISB-18
Sample Date:			09/15/2025	09/10/2025	09/11/2025	09/17/2025	09/09/2025
Sample Depth (ft bls):			9 - 11	8 - 10	12 - 14	8 - 10	5.5 - 7.5
Parameter	NYSDEC Part 375 Industrial SCO	Units					
Benzo(G,H,I)Perylene	78	MG/KG	0.37	0.028 J	0.047 J	0.031 J	0.38 U
Benzo(K)Fluoranthene	78	MG/KG	0.29	0.017 J	0.033 J	0.025 J	0.038 U
Benzyl Butyl Phthalate	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Biphenyl (Diphenyl)	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Bis(2-Chloroethoxy) Methane	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	--	MG/KG	0.037 U	0.037 U	0.035 U	0.036 U	0.038 U
Bis(2-Chloroisopropyl) Ether	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Bis(2-Ethylhexyl) Phthalate	--	MG/KG	0.021 J	0.026 J	0.055 J	0.045 J	0.38 U
Caprolactam	--	MG/KG	0.37 U	0.37 U	0.35 UT	0.36 U	0.38 UT
Carbazole	--	MG/KG	0.037 J	0.37 U	0.35 U	0.36 U	0.38 U
Chrysene	78	MG/KG	0.73	0.047 J	0.078 J	0.16 J	0.38 U
Cresols, M & P	1000	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Dibenz(A,H)Anthracene	3.7	MG/KG	0.093	0.037 U	0.035 U	0.036 U	0.038 U
Dibenzofuran	290	MG/KG	0.12 J	0.13 J	0.13 J	0.41	0.38 U
Diethyl Phthalate	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Dimethyl Phthalate	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Di-N-Butyl Phthalate	--	MG/KG	0.036 J	0.37 U	0.35 U	0.36 U	0.058 J
Di-N-Octylphthalate	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Fluoranthene	1000	MG/KG	2	0.13 J	0.27 J	0.25 J	0.38 U
Fluorene	1000	MG/KG	0.22 J	0.45	0.37	0.98	0.38 U
Hexachlorobenzene	2.9	MG/KG	0.037 U	0.037 U	0.035 U	0.036 U	0.038 U
Hexachlorobutadiene	--	MG/KG	0.074 U	0.074 U	0.071 U	0.073 U	0.078 U
Hexachlorocyclopentadiene	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Hexachloroethane	--	MG/KG	0.037 U	0.037 U	0.035 U	0.036 U	0.038 U
Indeno(1,2,3-C,D)Pyrene	37	MG/KG	0.44	0.028 J	0.048	0.043	0.038 U
Isophorone	--	MG/KG	0.15 U	0.15 U	0.14 U	0.15 U	0.15 U
Naphthalene	1000	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Nitrobenzene	8.9	MG/KG	0.037 U	0.037 U	0.035 U	0.036 U	0.038 U
N-Nitrosodi-N-Propylamine	--	MG/KG	0.037 U	0.037 U	0.035 U	0.036 U	0.038 U
N-Nitrosodiphenylamine	--	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Pentachlorophenol	7	MG/KG	0.29 U	0.29 U	0.28 U	0.29 U	0.31 U
Phenanthrene	78	MG/KG	0.94	0.37 U	0.11 J	0.29 J	0.38 U
Phenol	1000	MG/KG	0.37 U	0.37 U	0.35 U	0.36 U	0.38 U
Pyrene	1000	MG/KG	1.7	0.21 J	0.34 J	0.65	0.38 U

Table 2. Summary of Metals in Soil, Sunnyside Yard, Long Island City, New York

Sample Designation:			SISB-1	SISB-2	SISB-2	SISB-13	SISB-18
Sample Date:			09/15/2025	09/10/2025	09/11/2025	09/17/2025	09/09/2025
Sample Depth (ft bls):			9 - 11	8 - 10	12 - 14	8 - 10	5.5 - 7.5
Parameter	NYSDEC Part 375 Industrial SCO	Units					
Aluminum	--	MG/KG	4210	8400	3430	3470	3620
Antimony	--	MG/KG	1 U	0.13 J	0.85 U	1 U	1.1 U
Arsenic	16	MG/KG	1.4	1.2	0.85	0.96 J	1.6
Barium	10000	MG/KG	21.2	31.1	19	19.7	141
Beryllium	750	MG/KG	0.29 J	0.36	0.19 J	0.2 J	0.23 J
Cadmium	4.4	MG/KG	1 U	0.83 U	0.85 U	1 U	0.87 J
Calcium	--	MG/KG	13100	1210	1220	6550	1500
Chromium, Total	2000	MG/KG	10.4	15.2	8.6	8	8.1
Cobalt	--	MG/KG	4.5	5.1	3.1	3	4.3
Copper	10000	MG/KG	12.4	9.7	8.6	10.1	10.1
Iron	--	MG/KG	9510	11600 B	8440	9560	9790
Lead	3900	MG/KG	5	6	2.5	2.9	3.3
Magnesium	--	MG/KG	4890	2300	1600	4940	2090
Manganese	10000	MG/KG	244	183	127	146	1640
Mercury	1.1	MG/KG	0.018 U	0.017 U	0.018 U	0.017 U	0.018 U
Nickel	5900	MG/KG	11.9	9.9	8	8.3	14
Potassium	--	MG/KG	743	825	676	728	672
Selenium	2000	MG/KG	0.22 J	1 U	1.1 U	1.3 U	1.3 U
Silver	2000	MG/KG	0.4 U	0.33 U	0.34 U	0.4 U	0.43 U
Sodium	--	MG/KG	227	160	167	176	162
Thallium	--	MG/KG	0.4 U	0.087 J	0.34 U	0.4 U	0.069 J
Vanadium	--	MG/KG	12.9	21.7	14.8	13.1	16.4
Zinc	10000	MG/KG	20.3	27.4	12.9	17.3	114

Table 3. Summary of Polychlorinated Biphenyls in Soil, Sunnyside Yard, Long Island City, New York

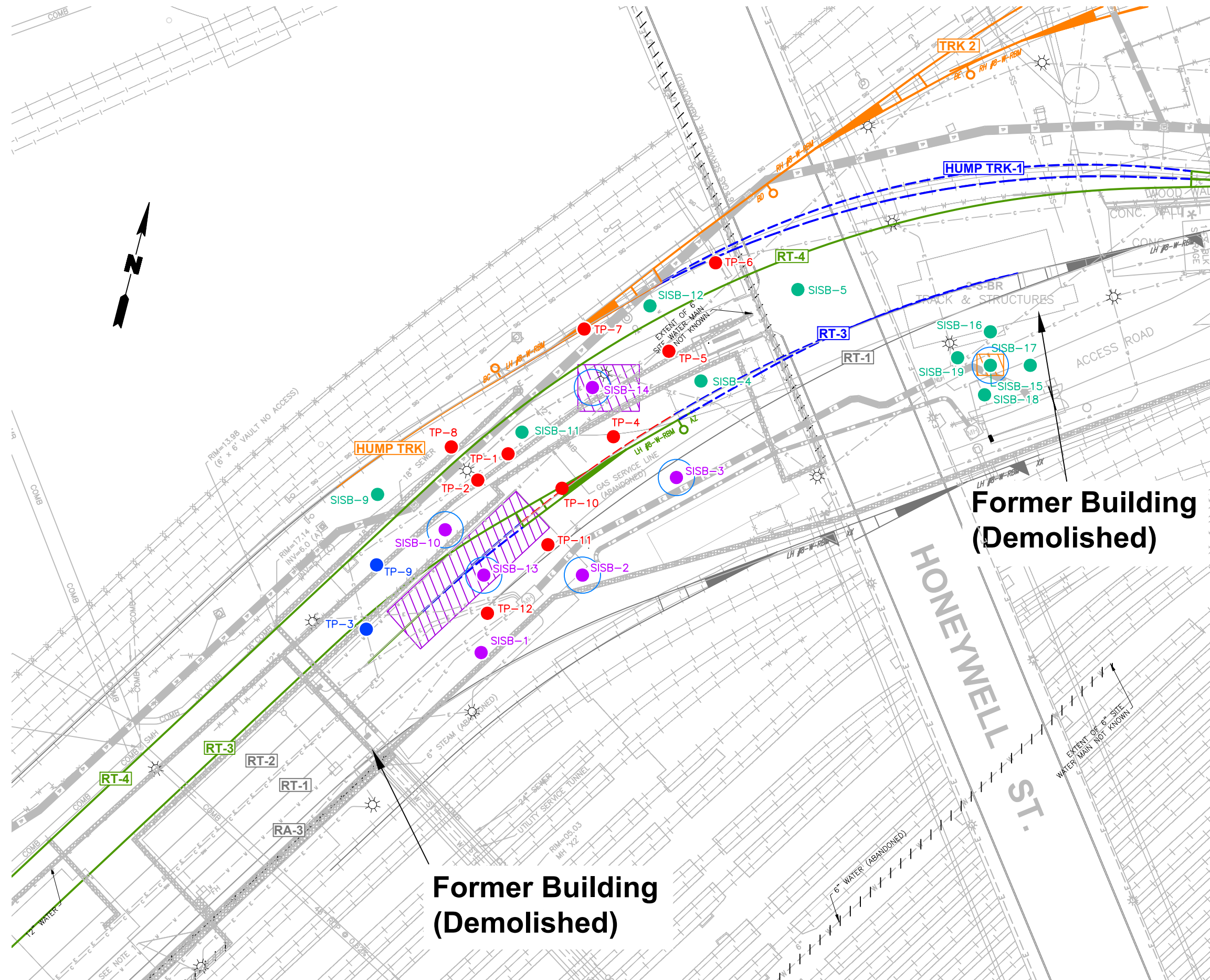
Sample Designation:			SISB-1	SISB-2	SISB-2	SISB-13	SISB-18
Sample Date:			09/15/2025	09/10/2025	09/11/2025	09/17/2025	09/09/2025
Sample Depth (ft bls):			9 - 11	8 - 10	12 - 14	8 - 10	5.5 - 7.5
Parameter	NYSDEC Part 375 Industrial SCO	Units					
PCB-1016 (Aroclor 1016)	--	MG/KG	0.075 U	0.074 U	0.071 U	0.074 U	0.079 U
PCB-1221 (Aroclor 1221)	--	MG/KG	0.075 U	0.074 U	0.071 U	0.074 U	0.079 U
PCB-1232 (Aroclor 1232)	--	MG/KG	0.075 U	0.074 U	0.071 U	0.074 U	0.079 U
PCB-1242 (Aroclor 1242)	--	MG/KG	0.075 U	0.074 U	0.071 U	0.074 U	0.079 U
PCB-1248 (Aroclor 1248)	--	MG/KG	0.075 U	0.074 U	0.071 U	0.074 U	0.079 U
PCB-1254 (Aroclor 1254)	--	MG/KG	0.075 U	0.074 U	0.071 U	0.074 U	0.079 U
PCB-1260 (Aroclor 1260)	--	MG/KG	0.075 U	0.074 U	0.12	0.074 U	0.079 U
PCB-1262 (Aroclor 1262)	--	MG/KG	0.075 U	0.074 U	0.071 U	0.074 U	0.079 U
PCB-1268 (Aroclor 1268)	--	MG/KG	0.075 U	0.074 U	0.071 U	0.074 U	0.079 U
Polychlorinated Biphenyl (PCBs)	25	MG/KG	0.075 U	0.074 U	0.12	0.074 U	0.079 U

Separate Phase Hydrocarbon (SPH) Monitoring/Recovery Plan
Sunnyside Yard - 39-29 Honeywell Street, Queens, New York

FIGURE

1. Delineation Test Pits and Soil Borings

V:\CAD\PROJECT\S0055Y0148Y126\0055.0148Y126.01.DWG GMLTON



LEGEND

- TP-1 ● APPROXIMATE LOCATION AND DESIGNATION OF TEST PIT WITH EVIDENCE OF SPH (APRIL/MAY 2023)
- TP-3 ● APPROXIMATE LOCATION AND DESIGNATION OF TEST PIT WITH NO EVIDENCE OF SPH
- SISB-4 ● LOCATION OF SPILL INVESTIGATION SOIL BORING WITH NO EVIDENCE OF SPH
- SISB-1 ● LOCATION OF SPILL INVESTIGATION SOIL BORING WITH EVIDENCE OF SPH
- LOCATION OF MONITORING WELL INSTALLED DURING SPILL INVESTIGATION
- [Purple Hatched Box] NYSDEC OPEN SPILL #2209440 – APPROXIMATE EXTENT OF EXCAVATION AREA WITH SPH ON GROUNDWATER
- [Orange Hatched Box] NYSDEC OPEN SPILL #2406650 – APPROXIMATE EXTENT OF EXCAVATION AREA WITH SPH ON GROUNDWATER
- SPH SEPARATE PHASE HYDROCARBONS

NOTE

GRAYSCALE FEATURES INCLUDE BOTH EXISTING INFRASTRUCTURE AND PROPOSED INFRASTRUCTURE AS PART OF THE ACELA READY TRACK PROJECT.

SOURCES

- AMTRAK INTERCITY TRAINSETS (ICT) PROGRAM, SUNNYSIDE YARD MAINTENANCE FACILITY, 100% TRACK DESIGN SUBMITTAL, APRIL 2024.
- AMTRAK, SUNNYSIDE YARD EXPANSION, READY TRACKS RA-3, RT-1, AND RT-2, NOVEMBER 2020.

Title: **DELINEATION TEST PITS AND SOIL BORINGS**

SPH MONITORING/RECOVERY PLAN

Prepared for: **AMTRAK**

ROUX	Compiled by: J.R.	Date: 1/13/2026	FIGURE 1
	Prepared by: G.M.	Scale: AS SHOWN	
	Project Mgr: J.R.	Project: 0055.0148Y006	
	File: 0055.0148Y126.01.DWG		

Separate Phase Hydrocarbon (SPH) Monitoring/Recovery Plan
Sunnyside Yard - 39-29 Honeywell Street, Queens, New York

ATTACHMENT 1

Soil Boring Logs



Client: Amtrak			Site: Sunnyside Yard			Project Number: 0055.0148Y006		
Address: 39-29 Honeywell Street			City/State: Queens, New York			Logged By: Z. Sat		
Start to Finish Date: 9/15/2025 - 9/16/2025		Contractor: ADT			Drill Type: Geoprobe		Sampler Type/Method: 2" Split Spoon	
Borehole Depth: 15 feet		Backfill: Cuttings			Borehole Diameter: 2-inches		DTW:	
Area: NM		Elevation: NM			Latitude: NM		Longitude: NM	
Well Depth: 15 feet	Well Dia./Materials: 4-inch PVC	Screen Interval: 5-15 feet		Screen Slot Size: 20-Slot		Sand/Filter Pack Size: Morie #2		Annular Seal: Bentonite

Depth (ft)	Well Diagram	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	Stick Up J Plug							
	Bentonite	BLDRCB		BALLAST STONE.				
				Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace brick (FILL); moist.			1.0	
		MIXD				5	1.2	Boring pre-cleared to 5 ft bls with hand tools for utility clearance.
	#2 Morie Sand						0.5	
	4" Sch. 40 PVC							
5				Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace brick (FILL); moist.			21.5	
		MIXD				2.5		
				Dark Grey, fine to coarse SAND, some fine to coarse Gravel, trace brick (FILL); wet.			211.5	Groundwater encountered at 9 ft bls.
10	4" Sch. 40 20-slot screen			Dark Grey, fine to coarse SAND, some fine to coarse Gravel, trace brick (FILL); wet.				
		MIXD					345.8	Staining encountered from 9 to 15 ft bls.
						2.5		
	Bottom Plug							

Bottom of borehole at 15 feet



Client: Amtrak		Site: Sunnyside Yard		Project Number: 0055.0148Y006	
Address: 39-29 Honeywell Street		City/State: Queens, New York		Logged By: Z. Sat	
Start to Finish Date: 9/10/2025 - 9/10/2025		Contractor: ADT		Drill Type: Geoprobe	
Borehole Depth: 15 feet		Backfill: Cuttings		Sampler Type/Method: 2" Split Spoon	
Area: NM		Elevation: NM		DTW:	
Well Depth: 15 feet		Screen Interval: 5-15 feet		Latitude: NM	
Well Dia./Materials: 4-inch PVC		Screen Slot Size: 20-Slot		Longitude: NM	
				Sand/Filter Pack Size: Morie #2	
				Annular Seal: Bentonite	

Depth (ft)	Well Diagram	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	Stick Up J Plug							
	Bentonite	BLDRCB		BALLAST STONE.				
		MIXD		Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); moist.			0.0	
		MIXD		Brown, fine to coarse SAND, little Brick, trace fine to coarse gravel (FILL); moist.			0.0	Boring pre-cleared to 5 ft bls with hand tools for utility clearance.
	#2 Morie Sand	MIXD		Brown, fine to coarse SAND, trace cobble, brick, fine to coarse gravel (FILL); moist.			1.5	
5		MIXD		Brown, fine to coarse SAND, little fine to coarse Gravel, trace brick (FILL); moist.			22.5	
	4" Sch. 40 PVC	MIXD					2.5	
		MIXD		Dark Grey, fine to coarse SAND, little fine to coarse SAND, little fine to coarse Gravel, trace brick (FILL); wet.			111.0	Groundwater encountered at 8 ft bls.
10	4" Sch. 40 20-slot screen	MIXD					52.3	Staining and odors encountered from 8 to 12 ft bls.
		MIXD		Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace brick (FILL); wet.				
	Bottom Plug							

Bottom of borehole at 15 feet



Client: Amtrak			Site: Sunnyside Yard			Project Number: 0055.0148Y006			
Address: 39-29 Honeywell Street			City/State: Queens, New York			Logged By: Z. Sat			
Start to Finish Date: 9/30/2025 - 9/30/2025		Contractor: ADT			Drill Type: Geoprobe			Sampler Type/Method: 2" Split Spoon	
Borehole Depth: 15 feet		Backfill: Cuttings			Borehole Diameter: 2-inches			DTW:	
Area: NM		Elevation: NM			Latitude: NM			Longitude: NM	
Well Depth: 15 feet	Well Dia./Materials: 4-inch PVC		Screen Interval: 5-15 feet		Screen Slot Size: 20-Slot		Sand/Filter Pack Size: Morie #2		Annular Seal: Bentonite

Depth (ft)	Well Diagram	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	Stick Up J Plug							
	Bentonite	BLDRCB		BALLAST STONE.				
				Dark Brown, fine to coarse SAND, some fine to coarse Gravel, little Cobble, Brick (FILL); moist.		2.2		
						2.5		
	#2 Morie Sand	MIXD				5		Boring pre-cleared to 5 ft bls with hand tools for utility clearance.
	4" Sch. 40 PVC					6.9		
5				Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace brick (FILL); moist.				
		MIXD						
				Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace brick (FILL); moist.				
		MIXD						
				Dark Grey, fine to coarse SAND, little fine to coarse Gravel, trace brick (FILL); wet.				
						89.2		
						4		
								Groundwater encountered at 8.5 ft bls.
10	4" Sch. 40 20-slot screen					535.0		
		MIXD						
						623.7		Staining and odors encountered from 6.5 to 15 ft bls.
						5		
	Bottom Plug							

Bottom of borehole at 15 feet



Client: Amtrak		Site: Sunnyside Yard		Project Number: 0055.0148Y006	
Address: 39-29 Honeywell Street		City/State: Queens, New York		Logged By: Z. Sat	
Start to Finish Date: 9/23/2025 - 9/23/2025		Contractor: ADT		Drill Type: Geoprobe	
Borehole Depth: 15 feet		Backfill: Cuttings		Sampler Type/Method: 2" Split Spoon	
Area: NM		Elevation: NM		Latitude: NM	
				Longitude: NM	

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	BLDRCB		BALLAST STONE.			0.0	
			Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace brick (FILL); moist.			0.0	
	MIXD				5	0.0	Boring pre-cleared to 5 ft bls with hand tools for utility clearance.
5			Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace cobble, brick (FILL); moist.			0.0	
	MIXD				3	0.0	
			Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace cobble, brick (FILL); wet.			0.0	
10						0.0	Groundwater encountered at 9 ft bls.
	MIXD				2.5	0.0	

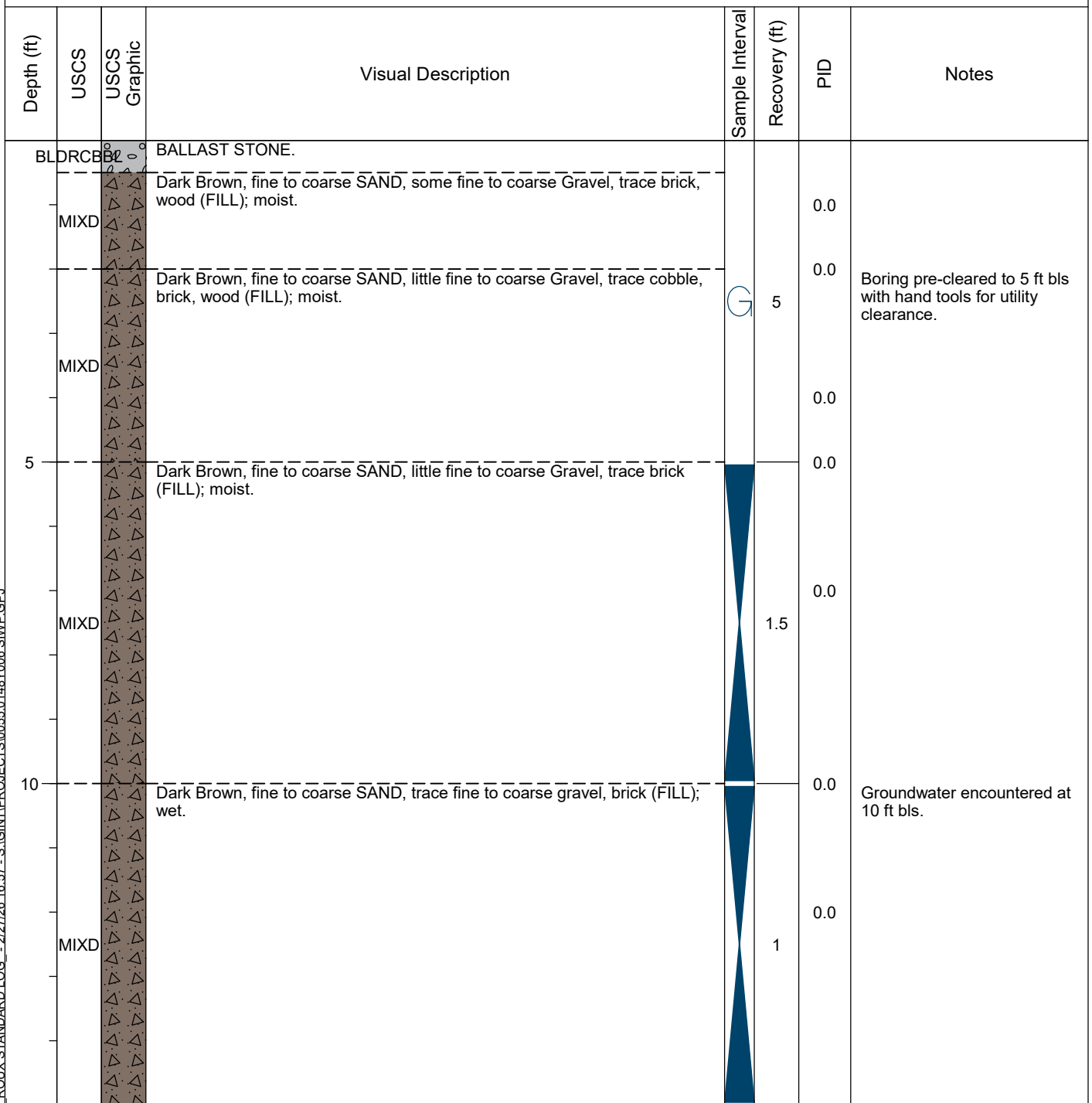
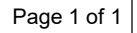
Bottom of borehole at 15 feet



Client: Amtrak		Site: Sunnyside Yard		Project Number: 0055.0148Y006	
Address: 39-29 Honeywell Street		City/State: Queens, New York		Logged By: Z. Sat	
Start to Finish Date: 9/26/2025 - 9/26/2025		Contractor: ADT		Drill Type: Geoprobe	
Borehole Depth: 15 feet		Backfill: Cuttings		Sampler Type/Method: 2" Split Spoon	
Area: NM		Elevation: NM		Latitude: NM	
				Longitude: NM	

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
0	BLDCBB		BALLAST STONE.				
0.0			Dark Brown, fine to coarse SAND, some fine to coarse Gravel, trace cobble, brick (FILL); moist.			0.0	
0.0						0.0	
5	MIXD				5		Boring pre-cleared to 5 ft bls with hand tools for utility clearance.
0.0						0.0	
0.0						0.0	
5			Dark Brown, fine to coarse SAND, little fine to coarse gravel, trace brick (FILL); moist.			0.0	
0.0						0.0	
0.0					2.5		
10			Dark Brown, fine to coarse SAND, little fine to coarse gravel, trace brick (FILL); wet.			0.0	
0.0						0.0	
0.0						0.0	
0.0					2		
0.0						0.0	
0.0						0.0	

Bottom of borehole at 15 feet





Client: Amtrak		Site: Sunnyside Yard		Project Number: 0055.0148Y006	
Address: 39-29 Honeywell Street		City/State: Queens, New York		Logged By: Z. Sat	
Start to Finish Date: 9/18/2025 - 9/19/2025		Contractor: ADT		Drill Type: Geoprobe	
Borehole Depth: 15 feet		Backfill: Cuttings		Sampler Type/Method: 2" Split Spoon	
Area: NM		Elevation: NM		DTW:	
Latitude: NM		Longitude: NM			
Well Depth: 15 feet	Well Dia./Materials: 4-inch PVC	Screen Interval: 5-15 feet	Screen Slot Size: 20-Slot	Sand/Filter Pack Size: Morie #2	Annular Seal: Bentonite

Depth (ft)	Well Diagram	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	Stick Up J Plug							
	Bentonite	BLDRCB		BALLAST STONE.				
				Dark Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); moist			0.0	
		MIXD			G	5	0.0	Boring pre-cleared to 5 ft bls with hand tools for utility clearance.
	#2 Morie Sand						0.0	
	4" Sch. 40 PVC							
5				Dark Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); moist.			50.2	
		MIXD				3		
10	4" Sch. 40 20-slot screen			Dark Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); moist.			342.5	Groundwater encountered at 10 ft bls.
		MIXD				4		Staining encountered from 10 to 12 ft bls.
								Odors encountered from 10 to 15 ft bls.
	Bottom Plug							

Bottom of borehole at 15 feet



Client: Amtrak		Site: Sunnyside Yard		Project Number: 0055.0148Y006	
Address: 39-29 Honeywell Street		City/State: Queens, New York		Logged By: Z. Sat	
Start to Finish Date: 9/22/2025 - 9/22/2025		Contractor: ADT		Drill Type: Geoprobe	
Borehole Depth: 15 feet		Backfill: Cuttings		Sampler Type/Method: 2" Split Spoon	
Borehole Diameter: 2-inches		DTW:			
Area: NM		Elevation: NM		Latitude: NM	
				Longitude: NM	

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
BL	DRCB		BALLAST STONE.				
	MIXD		Dark Brown, fine to coarse SAND, little fine to coarse Gravel and Cobble, trace brick (FILL); moist.			0.0	
			Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace brick (FILL); moist.			0.0	
	MIXD				5		Boring pre-cleared to 5 ft bls with hand tools for utility clearance.
			Dark Brown, fine to coarse SAND, some Cobble, fine to coarse Gravel, trace brick (FILL); moist.			0.0	
	MIXD		Dark Brown, fine to coarse SAND, some fine to coarse Gravel, trace cobble, brick (FILL); moist.			0.0	
5			Dark Brown, fine to coarse SAND, some fine to coarse Gravel, trace cobble, brick (FILL); moist.			0.0	
	MIXD				1		
			Dark Brown, COBBLE and fine to coarse GRAVEL, little fine to coarse SAND, trace brick (FILL); wet.			0.0	Groundwater encountered at 9 ft bls.
10	MIXD					0.0	
			Brown, fine to coarse SAND, some fine to coarse Gravel, trave cobble, brick (FILL); wet.		2.5	0.0	
	MIXD						

Bottom of borehole at 15 feet



Client: Amtrak		Site: Sunnyside Yard		Project Number: 0055.0148Y006	
Address: 39-29 Honeywell Street		City/State: Queens, New York		Logged By: Z. Sat	
Start to Finish Date: 9/23/2025 - 9/23/2025		Contractor: ADT		Drill Type: Geoprobe	
Borehole Depth: 15 feet		Backfill: Cuttings		Sampler Type/Method: 2" Split Spoon	
Area: NM		Elevation: NM		Latitude: NM	
				Longitude: NM	

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
0	BLDRCB		BALLAST STONE.			0.0	
0			Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace brick, cobble (FILL); moist			0.0	
5	MIXD		Dark Brown, fine to coarse SAND, some fine to coarse Gravel, trace cobble, brick (FILL); moist.			0.0	
10	MIXD		Dark Brown, fine to coarse SAND, some fine to coarse Gravel, trace cobble, brick (FILL); wet.			0.0	
10	MIXD		Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace cobble, brick (FILL); moist.			0.0	
	MIXD					0.0	

Bottom of borehole at 15 feet



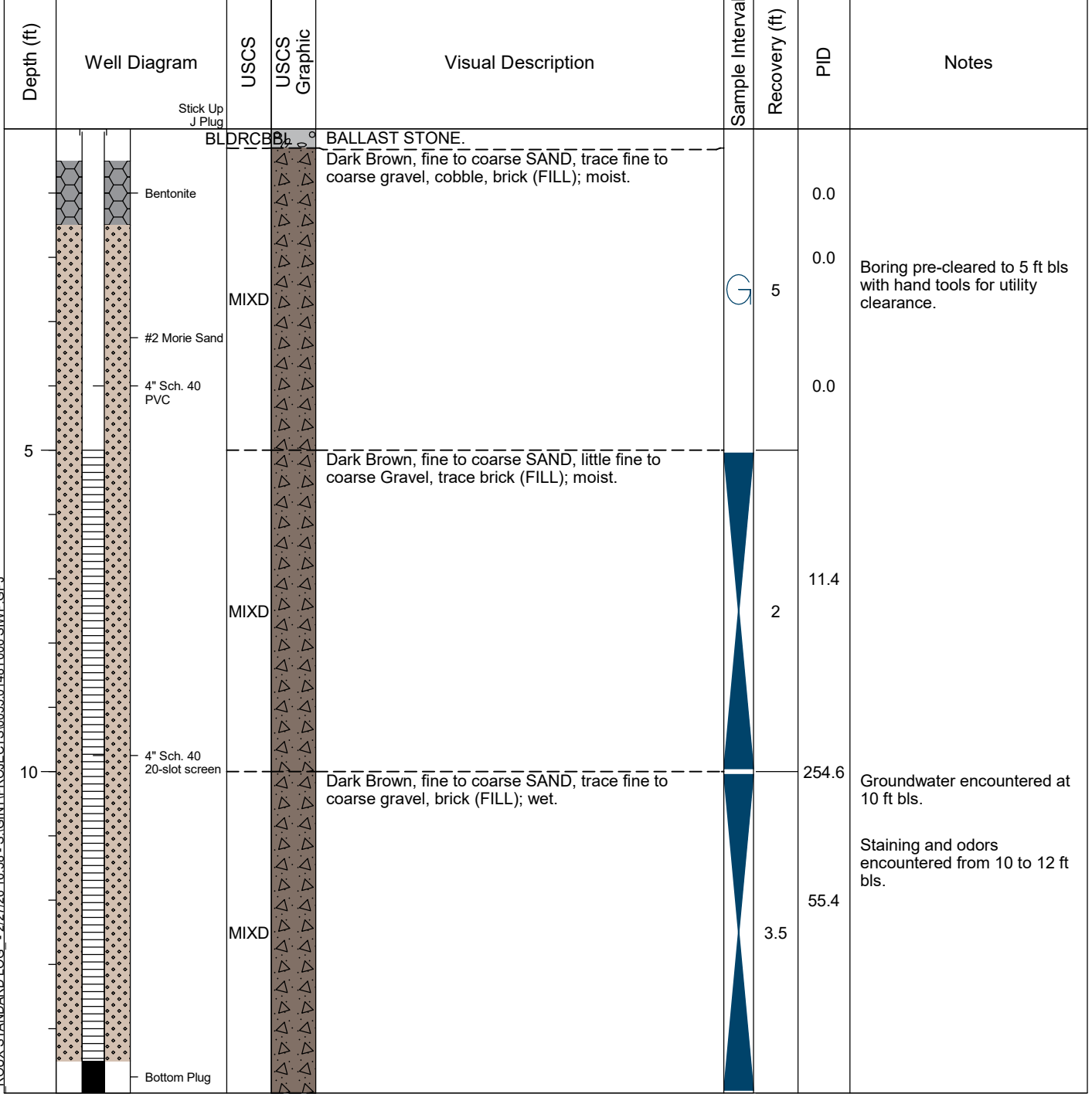
Client: Amtrak		Site: Sunnyside Yard		Project Number: 0055.0148Y006	
Address: 39-29 Honeywell Street		City/State: Queens, New York		Logged By: Z. Sat	
Start to Finish Date: 9/17/2025 - 9/18/2025		Contractor: ADT		Drill Type: Geoprobe	
Borehole Depth: 15 feet		Backfill: Cuttings		Sampler Type/Method: 2" Split Spoon	
Area: NM		Elevation: NM		DTW:	
Latitude: NM		Longitude: NM			
Well Depth: 15 feet	Well Dia./Materials: 4-inch PVC	Screen Interval: 5-15 feet	Screen Slot Size: 20-Slot	Sand/Filter Pack Size: Morie #2	Annular Seal: Bentonite

Depth (ft)	Well Diagram	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	Stick Up J Plug							
		BLDRCB		BALLAST STONE.				
	Bentonite			Dark Brown, fine to coarse SAND, some fine to coarse Gravel, trace cobble, brick (FILL); moist.			0.0	
		MIXD				5	1.0	Boring pre-cleared to 5 ft bls with hand tools for utility clearance.
	#2 Morie Sand						2.5	
	4" Sch. 40 PVC						10.0	
5		MIXD		Dark Brown, fine to coarse SAND, some fine to coarse Gravel, trace cobble, brick (FILL); moist.			235.6	
		MIXD		Dark Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); moist.		3		Groundwater encountered at 9 ft bls.
		MIXD		Dark Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); wet.			350.2	Staining encountered from 7 to 12 ft bls.
10	4" Sch. 40 20-slot screen	MIXD		Dark Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); wet.		4	125.3	Odor encountered from 9.5 to 15 ft bls.
	Bottom Plug							

Bottom of borehole at 15 feet



Client: Amtrak		Site: Sunnyside Yard		Project Number: 0055.0148Y006	
Address: 39-29 Honeywell Street		City/State: Queens, New York		Logged By: Z. Sat	
Start to Finish Date: 9/22/2025 - 9/24/2025		Contractor: ADT		Drill Type: Geoprobe	
Borehole Depth: 15 feet		Backfill: Cuttings		Sampler Type/Method: 2" Split Spoon	
Area: NM		Elevation: NM		Latitude: NM	
				Longitude: NM	
Well Depth: 15 feet		Well Dia./Materials: 4-inch PVC		Screen Interval: 5-15 feet	
				Screen Slot Size: 20-Slot	
				Sand/Filter Pack Size: Morie #2	
				Annular Seal: Bentonite	



Bottom of borehole at 15 feet

ROUX STANDARD LOG - 2/27/26 16:58 - S:\GINT\PROJECTS\0055.0148Y006\SWP.GPJ



Client: Amtrak			Site: Sunnyside Yard			Project Number: 0055.0148Y006					
Address: 39-29 Honeywell Street			City/State: Queens, New York			Logged By: Z. Sat					
Start to Finish Date: 9/9/2025 - 9/9/2025			Contractor: ADT			Drill Type: Geoprobe			Sampler Type/Method: 2" Split Spoon		
Borehole Depth: 15 feet			Backfill: Cuttings			Borehole Diameter: 2-inches			DTW:		
Area: NM			Elevation: NM			Latitude: NM			Longitude: NM		
Well Depth: 13 feet		Well Dia./Materials: 4-inch PVC		Screen Interval: 3-13 feet		Screen Slot Size: 20-Slot		Sand/Filter Pack Size: Morie #2		Annular Seal: Bentonite	

Depth (ft)	Well Diagram	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	Stick Up J Plug							
	Bentonite	BLDRCB		BALLAST STONE.				
	#2 Morie Sand 4" Sch. 40 PVC			Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace cobble, brick (FILL); moist.			0.0	
		MIXD				5	0.0	Boring pre-cleared to 5 ft bls with hand tools for utility clearance.
5							0.0	
		MIXD		Brownish Grey, fine to coarse SAND and fine to coarse GRAVEL, trace brick (FILL); moist.			0.1	
		MIXD		Dark Brown, fine to coarse SAND, trace fine to coarse gravel, cobble, brick (FILL); wet.			0.1	Groundwater encountered at 5.5 ft bls.
	4" Sch. 40 20-slot screen	MIXD		Brownish Grey, fine to coarse SAND and fine to coarse GRAVEL, trace brick (FILL); wet.		3	0.1	
				Dark brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); wet.			0.0	
10		MIXD					0.0	
						4.5	0.0	
	Bottom Plug							

Bottom of borehole at 15 feet



Client: Amtrak		Site: Sunnyside Yard		Project Number: 0055.0148Y006	
Address: 39-29 Honeywell Street		City/State: Queens, New York		Logged By: Z. Sat	
Start to Finish Date: 9/8/2025 - 9/8/2025		Contractor: ADT		Drill Type: Geoprobe	
Borehole Depth: 12 feet		Backfill: Cuttings		Sampler Type/Method: 2" Split Spoon	
Area: NM		Elevation: NM		Latitude: NM	
				Longitude: NM	

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	BLDRCB		BALLAST STONE.				
			Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace cobble, brick (FILL); moist.		0.0		
	MIXD		Dark Brown, fine to coarse SAND, trace cobble, fine to coarse gravel, brick (FILL); moist.		0.0		
			Dark Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); moist.		0.0		
5	MIXD		Dark Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); moist.		0.6		
			Dark Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); wet.		0.4		
					4.5		
10					0.0		
					1	0.0	
							Refusal hit at 12 ft bls.

Bottom of borehole at 12 feet



Client: Amtrak		Site: Sunnyside Yard		Project Number: 0055.0148Y006	
Address: 39-29 Honeywell Street		City/State: Queens, New York		Logged By: Z. Sat	
Start to Finish Date: 9/8/2025 - 9/8/2025		Contractor: ADT		Drill Type: Geoprobe	
Borehole Depth: 13 feet		Backfill: Cuttings		Sampler Type/Method: 2" Split Spoon	
Area: NM		Elevation: NM		Latitude: NM	
				Longitude: NM	

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
			BALLAST STONE.				
	BLDRCB						
					0.0		
	MIXD		Brown, fine to coarse SAND, little Cobble, fine to coarse Gravel, trace brick (FILL); moist.				
					0.0		
			Brown, fine to coarse SAND, some Cobble, fine to coarse Gravel, trace brick (FILL); moist.				
	MIXD			G	5		Boring pre-cleared to 5 ft bls with hand tools for utility clearance.
					0.0		
			Brown, fine to coarse SAND, trace cobble, fine to coarse gravel, brick (FILL); moist.				
5							
	MIXD						
					0.0		
					3		
10			Brown, fine to coarse SAND, trace fine to coarse gravel, cobble, brick (FILL); moist.				
	MIXD						
					0.0		
					2		
							Refusal hit at 13 ft bls.

Bottom of borehole at 13 feet



Client: Amtrak		Site: Sunnyside Yard		Project Number: 0055.0148Y006	
Address: 39-29 Honeywell Street		City/State: Queens, New York		Logged By: Z. Sat	
Start to Finish Date: 9/9/2025 - 9/9/2025		Contractor: ADT		Drill Type: Geoprobe	
Borehole Depth: 15 feet		Backfill: Cuttings		Sampler Type/Method: 2" Split Spoon	
Area: NM		Elevation: NM		Latitude: NM	
				Longitude: NM	

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	BLDRCB		BALLAST STONE.				
			Brown, fine to coarse SAND, little fine to coarse gravel, trace brick (FILL); moist.		0.0		Boring pre-cleared to 5 ft bls with hand tools for utility clearance.
	MIXD				0.0		
			Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); moist.		0.0		
5	MIXD				0.0		Collected sample SISB-18 (5.5-7.5) for analysis.
	MIXD		Dark Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); moist.		0.0		
			Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); wet.		3		Groundwater encountered at 7.5 ft bls.
10					0.0		
	MIXD				0.0		
					4.5		

Bottom of borehole at 15 feet



Client: Amtrak		Site: Sunnyside Yard		Project Number: 0055.0148Y006	
Address: 39-29 Honeywell Street		City/State: Queens, New York		Logged By: Z. Sat	
Start to Finish Date: 9/9/2025 - 9/9/2025		Contractor: ADT		Drill Type: Geoprobe	
Borehole Depth: 15 feet		Backfill: Cuttings		Sampler Type/Method: 2" Split Spoon	
Area: NM		Elevation: NM		Latitude: NM	
				Longitude: NM	

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
0	BLDCBB		BALLAST STONE.				
0.0			Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace cobble, brick (FILL); moist.			0.0	
0.0						0.0	
0.0	MIXD				5	0.0	Boring pre-cleared to 5 ft bls with hand tools for utility clearance.
5			Dark Brown, fine to coarse SAND, little fine to coarse Gravel, trace brick (FILL); moist.			0.0	
0.0	MIXD					0.0	
0.0			Dark Brown, fine to coarse SAND, trace fine to coarse gravel, brick (FILL); wet.			0.0	
0.0					3	0.0	Groundwater encountered at 6 ft bls.
10			Dark Brown, medium to coarse SAND, trace fine to coarse gravel, brick (FILL); wet.			0.0	
0.0						0.0	
0.0	MIXD				2	0.0	

Bottom of borehole at 15 feet