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LANDMARKS PRESERVATION
COMMISSION

**Phase IB Archaeological
Field Investigation**

**New York City Transit
Arthur Kill Station and Parking Lot
Staten Island Railway**

**Block 8020, Lots 6, 80, and 86
Richmond County, New York**

1088

Phase IB Archaeological
Field Investigation

New York City Transit
Arthur Kill Station and Parking Lot
Staten Island Railway

Block 8020, Lots 6, 80, and 86
Richmond County, New York

Prepared For:

STV Inc.
225 Park Avenue South
New York, NY 10003

Prepared By:

Historical Perspectives, Inc.
P.O. Box 3037
Westport, CT 06880

Author:

Sara Mascia, Ph.D., R.P.A.

July 2008

MANAGEMENT SUMMARY

SHPO Project Review Number (if available):

Involved State and Federal Agencies: **N/A**

Phase of Survey: **Phase IB Archaeological Field Investigation**

Location Information

Location: **Staten Island, New York**

Minor Civil Divisions: **Tottenville**

County: **Richmond**

Survey Area

Length:

Width:

Number of Acres Surveyed: **5-acres Parking Lot; <2 Acres-Station**

USGS 7.5 Minute Quadrangle Map: **New Jersey**

Archaeological Survey Overview

Number & Interval of Shovel Tests: **61, 15-meter; 3 judgmental**

Number & Size of Units: **N/A**

Width of Plowed Strips: **N/A**

Surface Survey Transect Interval: **N/A**

Results of Archaeological Survey

Number & name of precontact sites identified: **None**

Number & name of historic sites identified: **None**

Number & name of sites recommended for Phase II/Avoidance: **None**

Results of Architectural Survey

Number of buildings/structures/cemeteries within project area: **N/A**

Number of buildings/structures/cemeteries adjacent to project area: **residential/commercial area.**

Number of previously determined NRHP listed or eligible buildings/structures/cemeteries/districts:

Number of identified eligible buildings/structures/cemeteries/districts:

Report Authors(s): **Sara Mascia, Ph.D., R.P.A., Historical Perspectives, Inc.**

Date of Report: **July 2008**

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I. INTRODUCTION

The Metropolitan Transportation Authority of New York City Transit (NYCT) has proposed the construction of a new Arthur Kill Station for the Staten Island Railway (Figure 1). The project site is located in Tottenville, Block 8020, Lots 6, 80, and 86. A Phase 1A Archaeological Documentary Study of the proposed NYCT Arthur Kill Station was prepared in 2005 (Stone 2005). The 1A Study concluded that the property has a moderate to high potential for containing archaeological resources from the Prehistoric Period and recommended field testing. This determination of potential sensitivity and the need for testing was based, in part, on the lack of documentary evidence of prior subsurface disturbance. As Stone noted in the Recommendations (page 12), an archaeological testing plan should be developed after a review of any available information on past site disturbances (e.g., utility installations and soil boring logs) and in relation to the finalized design plans.

At the time of the 2005 study, approximately 18 acres were included in the Area of Potential Effect (APE). Since that time, the proposed Railway station and parking facility has been re-designed. The current APE is a total of 7.42 acres, including both the proposed station (Lot 86: 2 acres) and proposed parking lot (Lot 6: 5.42 acres). The planned commuter parking lot has been reduced from 420 spaces to 150 spaces. A woodland buffer zone surrounding the parking lot will not be affected by proposed construction activities.

The 2005 study was comprehensive and meets the research and report standards in effect for both SEQR and CEQR review agencies as of March, 2008. The study was forwarded in its entirety to the appropriate state archaeological professionals at the New York State Office of Parks, Recreation and Historic Preservation (OPRHP).

At the request of STV, Inc., Historical Perspectives, Inc. (HPI) initiated the Phase IB Field Investigation in accordance with the Secretary of the Interior's *Standards and Guidelines for Archaeology* (48 FR 44734-37), the Advisory Council on Historic Preservation's *Treatment of Archaeological Properties*, the New York Archaeological Council's *Standards for Cultural Resource Investigation and the Curation of Archaeological Collections in New York State* as recommended by OPRHP. The goal of the testing, in recognition of the 2005 study and recommendations, was to ascertain the presence or absence of precontact cultural resources in the location of the proposed parking lot (Lot 6) and to verify site disturbance in the location of the proposed station (adjacent to the railroad tracks in Lot 86).

The results of the research, protocol development, and field investigation are presented in this report.

II. METHODOLOGY

A. IDENTIFIED RESOURCES

The 2005 study concluded that the "project area contains a moderate to high potential for the preservation of prehistoric archaeological resources and no archaeological potential for preservation of historic archaeological resources. Archaeological testing is recommended for all areas of the APE where below ground disturbances are planned except for a small area near the intersection of Arthur Kill Road, Ellis Street and St. Andrews Place where a substantial amount of fill has been added to eliminate a grade crossing, unless the planned below ground impacts to that section of the APE will penetrate below the depth of fill."

B. RESEARCH APPROACH

Prior to conducting fieldwork, HPI created a Phase IB Field Investigation Protocol and Unanticipated Discovery Plan for the proposed Arthur Kill Station and Parking Lot Site (3/30/2008). HPI recommended a phased approach to testing that adhered to the above recommendations. The initial phase would be to collect any data from NYCT regarding potential on-site below ground utilities and to review the most up to date project plans. Once this phase was completed, the data would be utilized to determine the exact locations for the actual field tests (Figure 2).

Typically, precontact resources in the metropolitan area are encountered within several feet of the predevelopment land surface. Due to the site history and condition, hand testing is a viable approach to the Arthur Kill Station site. The testing methodology planned for the project site entailed the excavation of Shovel Tests (STs) to determine if undisturbed strata and precontact cultural materials were present. After receiving the most recent project plans (6/3/08), it was projected that the field investigation of the proposed station parking lot site (Lot 6) would require

approximately 50-60 STs in areas where no obvious surface disturbance was noted. Testing the portion of the APE identified as the station site (Lot 86) was approached differently. The station site lands were severely impacted by the earlier installation of the extant trackage, the construction of retaining walls and pavements, and the introduction of fill on the extreme eastern end. It is assumed that the integrity of the subsurface soils in this linear parcel, paralleling the railroad right-of-way, has been compromised. Archaeological testing in this location relied on judgmental STs to define the integrity of the subsurface conditions and the need for further testing to OPRHP standards.

When referring to the fill area near the road intersection on the station portion of the project APE, Stone (2005) noted that "should construction of the project in the northern part of Lot 86, which was filled to remove the grade crossing, reach below the depth of fill (about 10 feet), then these parts of the APE should also be tested." The current plans do not call for the removal of fill to these depths and therefore no testing was necessary in this location.

III. FIELD INVESTIGATION

Archaeological field investigations took place at the proposed Arthur Kill Road Railroad Station and Parking Lot during June 2008.

A. CURRENT CONDITIONS

At the onset of the field investigation, a comprehensive walkover reconnaissance was completed and photographs were taken by the HPI field crew (Photographs 1-13).

Proposed Parking Lot (Lot 6)

A chain link fence runs along the northern boundary of this portion of the project site (Photograph 1). A Staten Island Edison substation is located on the adjacent property. The majority of the proposed Arthur Kill Station Parking Lot site is covered with young trees, mixed brush, and poison ivy, an opportunistic plant that often grows in disturbed wooded and/or rocky areas (Photographs 2 and 3). A small clearing is located on the southeast section of the APE adjacent to the properties on the southern boundary (Photographs 4 and 5). A former entry road, now covered with gravel, extends from Arthur Kill Road into the center of the site (Photograph 6). Across the site, extensive evidence of past earth moving and dumping activity was noted (Photographs 7-9). To the north, Arthur Kill Road (Photograph 10) separates the proposed Parking Lot and Station sites. According to Stone, the elevation of the proposed parking lot APE in the northern side of Lot 6 is 10-20 feet above sea level (1995: 2).

Proposed Station (Lot 86)

The proposed Station site includes the construction of a platform and drop-off areas on both sides of the track. At present, the fenced south side of the track is covered with gravel from a former road bed, fill, and small shrubs (Photographs 11 and 12). The northern side of the tracks has been graded and is covered with gravel (Photographs 13 and 14). The area has also been used as storage for NYCT materials. The elevation of the tracks is between 15 feet above sea level on the west to 12 feet on the east (Stone 2005: 2).

B. RESULTS OF FIELD EXCAVATION

Phase I fieldwork, the testing phase of a standard archaeological survey, is designed to ascertain the presence/absence, type, and extent of archaeological resources. To accomplish the goals of excavation, subsurface testing, in the form of 50 x 50 cm Shovel Tests (STs), was conducted across the majority of the proposed Parking Lot site at 15-meter intervals. Judgmental tests were examined in the location of the proposed Station. No testing was conducted in areas that were obviously disturbed or excessively sloped. All excavated soil was sifted through ¼-inch screens and any cultural material encountered was recovered and bagged according to natural stratigraphy (Appendix A). Professional standards for excavation, screening, recording of features and stratigraphy, labeling, mapping, photographing, and cataloging were applied. Upon the completion of field testing, all cultural material was subjected to laboratory analysis and a catalog of recovered artifacts was completed (Appendix B).

Proposed Parking Lot (Lot 6)

The HPI team investigated a total of 61 STs during the field examination of the proposed parking lot area (Figure 3; Appendix A). Excavation typically revealed the presence of three soil strata (Photographs 15-16). Level 1 was a modern dark brown (10 YR 3/3 – 4/3) to a dark grayish brown (10YR 3/2 – 4/2) sandy loam; Level 2 was a yellowish brown (10YR 5/6) to strong brown (7.5 4/4-5/6) sand; and, Level 3 was a strong brown (7.5 YR 4/6) to yellowish brown (s10YR 5/8-6/8) sandy subsoil.

Excavation revealed the presence of disturbed soils and/or fill in the uppermost strata. Stone reported that the open clearing had been used for recreational activities in the past, which accounts for the significant amount of surface deposition of bottle glass, plastic fragments, and other food-related containers across the site (Stone 2005: 2). Because of the relative isolation of the project site, this location has also experienced widespread and substantial dumping episodes. Evidence to this effect was noted during testing (see Photographs 7-9). In a single location, a mixed deposition of early and late 20th century artifacts was noted (ST S90W100). A severely rusted fragment of a gun barrel from a revolver (probably a .22 caliber) was recovered along with modern bottle glass and fragments of a pressed glass container. During the investigation, a single 20th century feature was identified by the field team (Photograph 17). An underground utility vault of unknown origin was observed and recorded. The cover of the vault was no longer in place and the team was able to observe that the vault had incoming and outgoing pipes. It is possible that the feature was a temporary overflow stormwater vault.

No precontact materials or early landforms were discovered during the field examination of the proposed Parking Lot site (Lot 6). Instead, the artifacts and feature found and/or noted represent 20th century scatter and dumping episodes (Appendix B).

Proposed Station (Lot 86)

The initial goal of the testing was to define the extent of the disturbance by examining the ground surface. The south side of the tracks appears to have been graded and filled when Arthur Kill Road was initially created and again when the railroad tracks were installed. In some locations boulders and broken concrete blocks were observed protruding above the surface or from the berm along the tracks. On the north side of the tracks, evidence of extensive grading was also observed along the edge of the roadbed and the tracks. The northern side was also almost completely covered with a thick layer of gravel.

Verification testing concentrated on locations near where no obvious disturbance was noted (Figure 3). Two STs (ST J1, ST J2) were investigated on the south side of the tracks and one (ST J3) on the north side. All of the shovel tests were excavated until bedrock or large rock obstructions were encountered. The soil stratigraphy is clearly different than was observed in the Proposed Parking Lot (Lot 6) location (Appendix A). This difference verified the belief that the area was subjected to unrecorded disturbance associated with the creation of Arthur Kill Road and the railroad bed. Testing on the north side revealed a fill layer that contained modern materials (Styrofoam, plastic) mixed with early-mid 20th century materials (bottle fragments, whiteware, shoe fragments). No precontact material or original landforms were noted during the field investigation.

IV. CONCLUSIONS

No significant features or concentrations of precontact artifacts were recovered during the Phase 1B testing program. This might be the result of historical disturbance or the lack of natural resources in the project area that would have enticed precontact peoples to this location. The archaeological field investigation further found that the Station site was disturbed in the past by construction/installation activities and earthmoving actions and therefore does not retain any archaeological sensitivity. Because no areas indicative of a natural landform were identified during testing, no further archaeological consideration is necessary for the project APE.

V. REFERENCES

Stone, Linda

2005 Report on Phase 1A Archaeological Documentary Research for the New Arthur Kill Station of the Staten Island Railway Located Along Arthur Kill Road in Tottenville, Staten Island, New York Block 8020- Lots 6, 80 and 86. Prepared for Shaw Environmental and Infrastructure, Inc.

Stone & Webster Engineering New York, P.C.

2006 Phase I Environmental Site Assessment, Arthur Kill Road State, Staten Island, New York. Prepared for the MTA-New York City Transit.

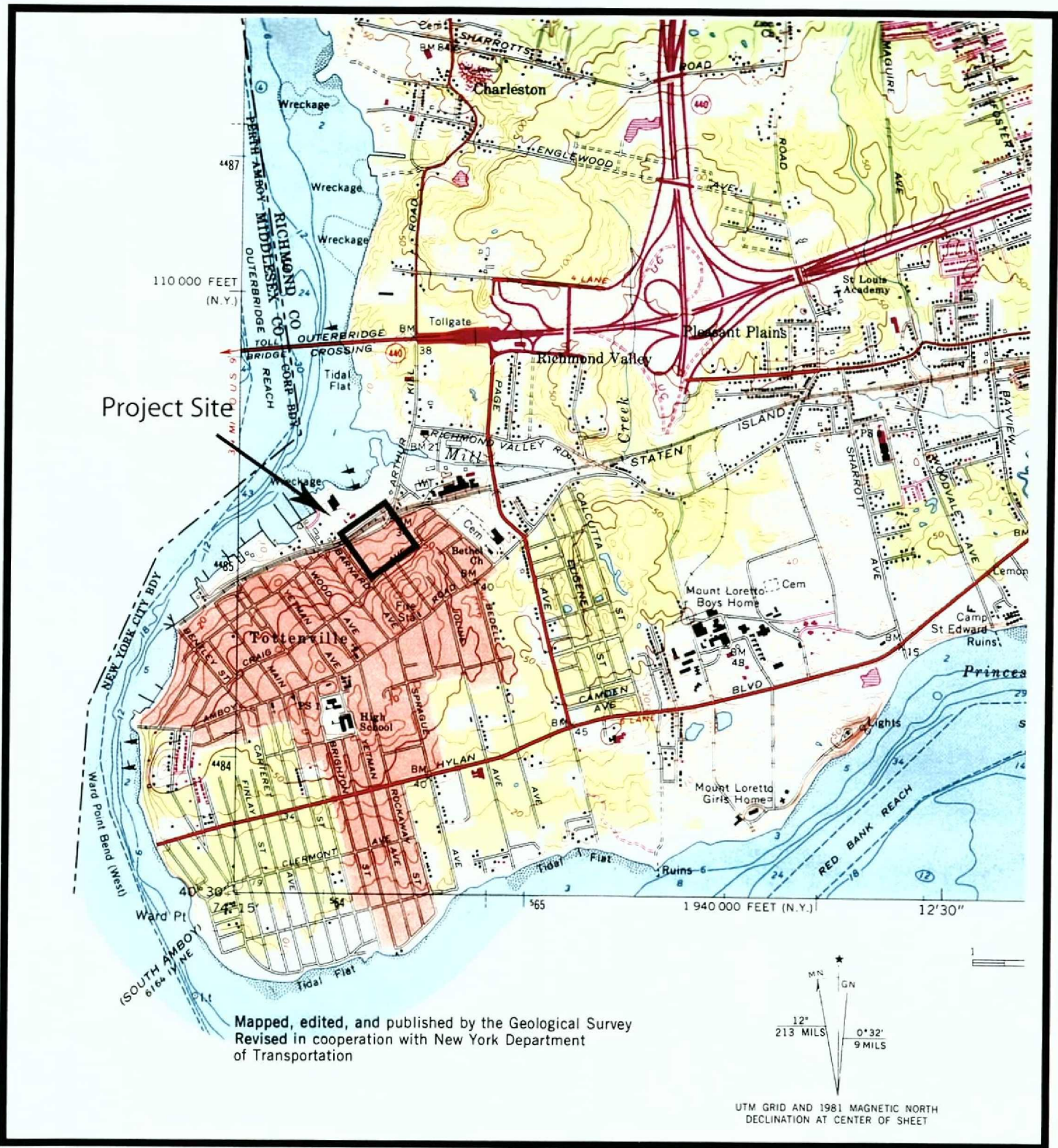


Figure 1. Project Site Location. Arthur Kill NY-NJ 7.5 Minute Quadrangle (U.S.G.S. 1981)



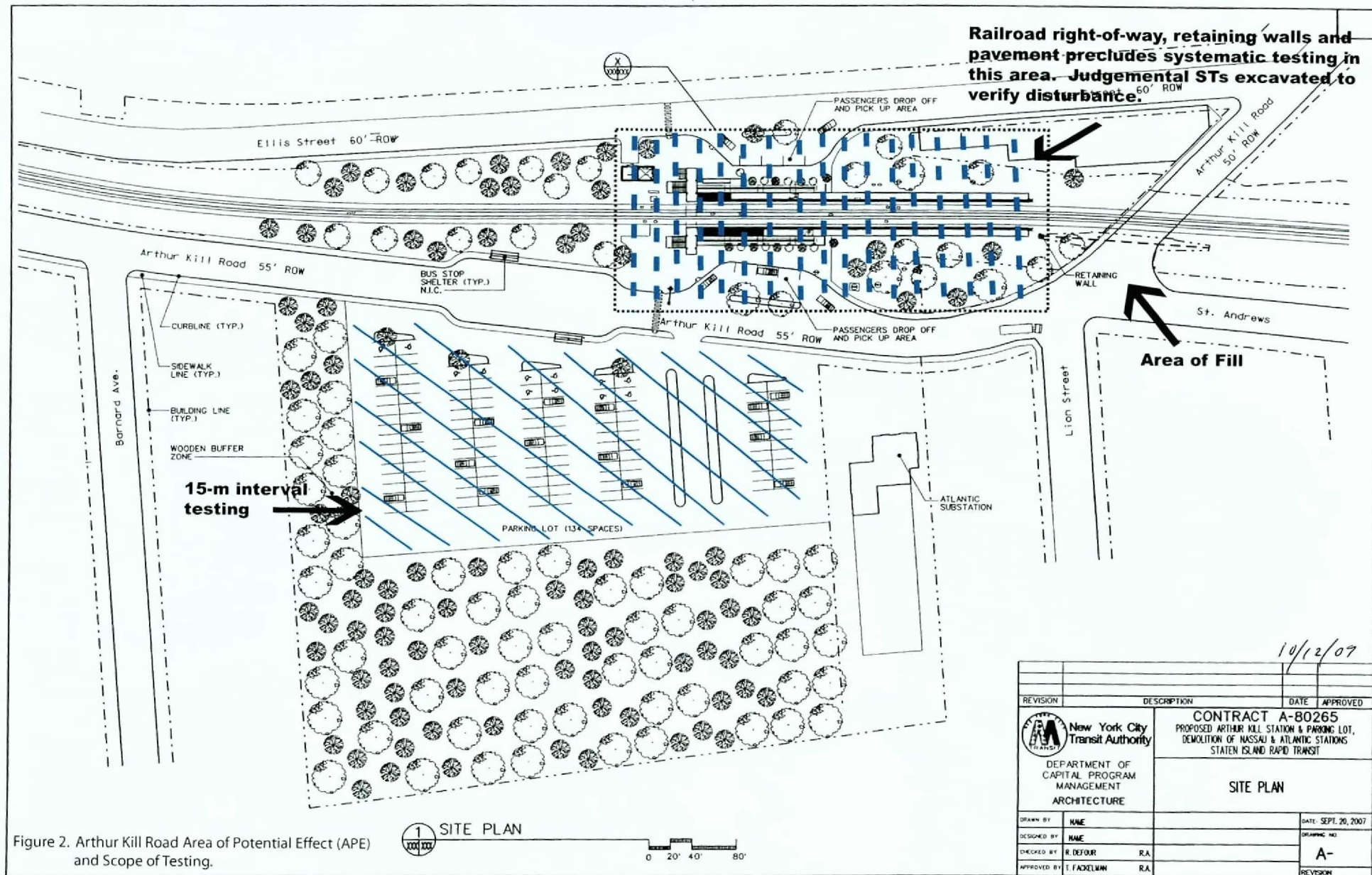
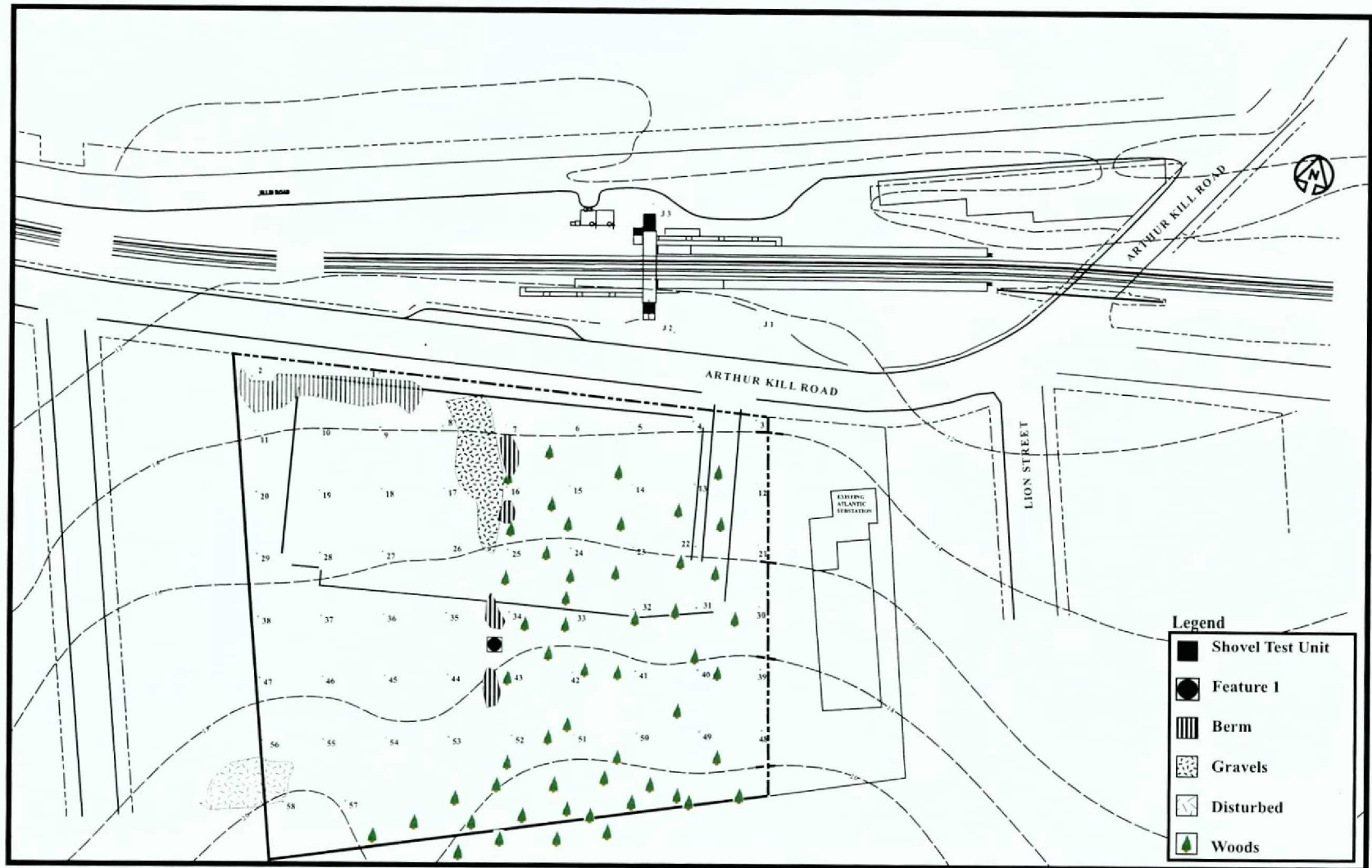


Figure 2. Arthur Kill Road Area of Potential Effect (APE) and Scope of Testing.

10/12/07

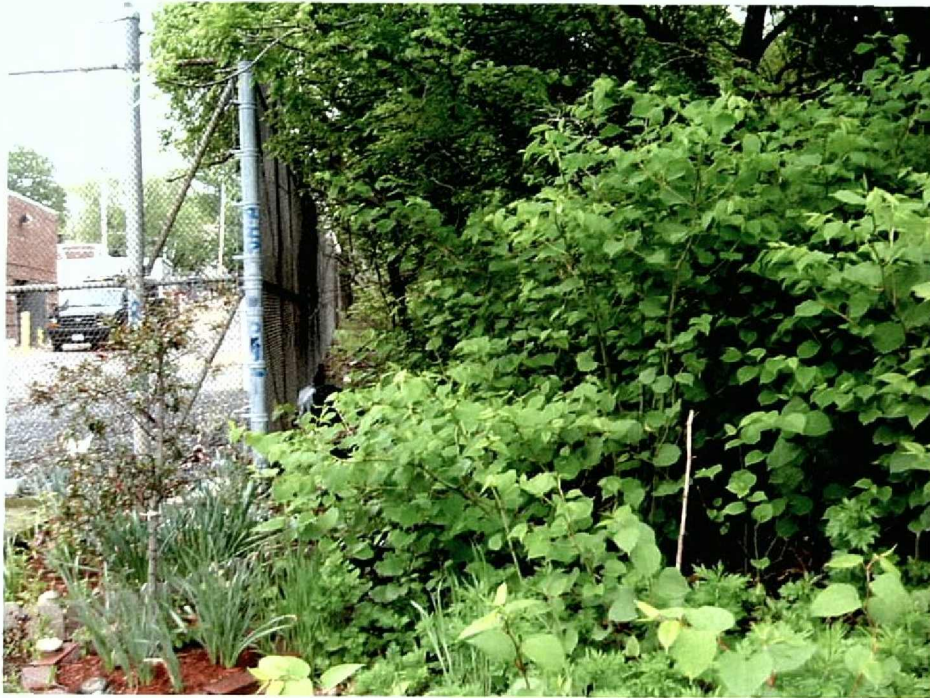
REVISION	DESCRIPTION	DATE	APPROVED
New York City Transit Authority DEPARTMENT OF CAPITAL PROGRAM MANAGEMENT ARCHITECTURE		CONTRACT A-80265 PROPOSED ARTHUR KILL STATION & PARKING LOT, DEMOLITION OF NASSAU & ATLANTIC STATIONS STATEN ISLAND RAPID TRANSIT	
		SITE PLAN	
DRAWN BY:	NAME	DATE: SEPT. 20, 2007	
DESIGNED BY:	NAME	DRAWING NO.	
CHECKED BY:	R. DEFOUR R.A.	A-	
APPROVED BY:	T. FADELWAN R.A.	REVISION	



PROPOSED ARTHUR KILL STATION AND PARKING LOT
STATEN ISLAND RAILWAY

FIGURE 3. LOCATION OF SHOVEL TESTS.





Photograph 1. Northeast boundary (fence line) of proposed Arthur Kill Road Station Parking Lot site.



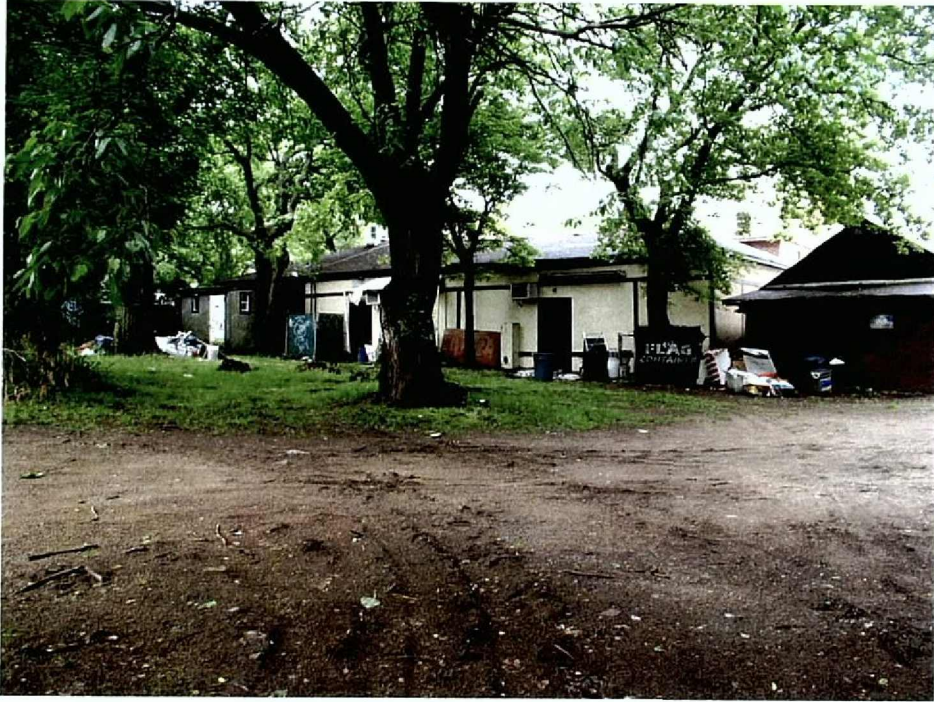
Photograph 2. View of brush on proposed Arthur Kill Road Station Parking Lot site.



Photograph 3. View of brush on proposed Arthur Kill Road Station Parking Lot site.



Photograph 4. View of clearing and neighboring buildings. Proposed Arthur Kill Road Station Parking Lot site.



Photograph 5. Southwest boundary and neighboring buildings. Proposed Arthur Kill Road Station Parking Lot site.



Photograph 6. Gravel entry of property. Proposed Arthur Kill Road Station Parking Lot site.



Photograph 7. Bulldozed mound on property. Proposed Arthur Kill Road Station Parking Lot site.



Photograph 8. Dumped cars on property. Proposed Arthur Kill Road Station Parking Lot site.

ST Number	Map Number	Level	Depth (cm)	Horizon	Texture	Soil Color	Cultural Material	Other comments
N15W90	1	1	0-20cm	fill	loamy sand	7.5YR 4/4 w/ 10YR 3/3	asphalt shingle, bottle glass	discarded
N15W90	1	2	20-40cm	B	sand	7.5YR 4/4	NCM	offset 5m to S because of berm of fill near road, root obstruction
N15W120	2	1	0-17cm	A	sandy loam	10YR 4/2	glass, debris	discarded
N15W120	2	2	17-53cm	B	sand	10YR 4/6	glass, shell	discarded
N15W120	2	3	53-70cm	C	sand	7.5YR 4/6	NCM	sterile subsoil
S0E0	3	1	0-35cm	A	sandy loam	10YR 2/1	Budweiser bottle-modern, plastic	discarded
S0E0	3	2	35-77cm	B	sandy loam	10YR 4/6	NCM	
S0E0	3	3	77-98cm	C	sand	10YR 5/8	NCM	sterile subsoil
S0W15	4	1	0-30cm	A	loamy sand	10YR 3/2	brick	discarded
S0W15	4	2	30-70cm	B	sand	7.5YR 4/6	NCM	sterile subsoil
S0W30	5	1	0-19cm	A	sandy loam	10YR 3/4	NCM	
S0W30	5	2	19-62cm	B	sand	10YR 5/6	NCM	
S0W30	5	3	62-89cm	C	sand	10YR 5/8	NCM	sterile subsoil
S0W45	6	1	0-26cm	A	sandy loam	10YR 3/4	NCM	
S0W45	6	2	26-75cm	B	sand	10YR 5/8	NCM	
S0W45	6	3	75-83cm	C	sand	10YR 4/4	NCM	sterile subsoil
S0W60	7	1	0-17cm	A	sandy loam	10YR 3/4	NCM	
S0W60	7	2	17-58cm	B	sand	10YR 5/6	NCM	
S0W60	7	3	58-77cm	C	sand	10YR 5/8	NCM	sterile subsoil
S0W75	8	1	0-27cm	A	sandy loam	10YR 2/2	NCM	
S0W75	8	2	27-85cm	B	sand	7.5YR 5/6	NCM	
S0W75	8	3	85-93cm	C	sand	7.5YR 5/8	NCM	sterile subsoil
S0W90	9	1	0-20cm	A	sandy loam	10YR 4/2	NCM	
S0W90	9	2	20-72cm	B	sand	7.5YR 5/6	NCM	
S0W90	9	3	72-93cm	C	sand w/gravel	10YR 4/6	NCM	sterile subsoil
S0W105	10	1	0-8cm	A	silty loam	10YR 2/2	NCM	
S0W105	10	2	8-60cm	B	sand	7.5YR 5/6	NCM	
S0W105	10	3	60-83cm	C	sand	10YR 4/6	NCM	sterile subsoil
S0W120	11	1	0-16cm	A	sandy loam	10YR 4/2	NCM	
S0W120	11	2	16-42cm	B	sand	10YR 5/6	NCM	
S0W120	11	3	42-77cm	C	sand	7.5YR 4/6	shingles, plastic	discarded, sterile subsoil
S15W0	12	1	0-25cm	A	sandy loam	10YR 3/3	NCM	
S15W0	12	2	25-40cm	B	sand	10YR 5/8	NCM	
S15W0	12	3	40-70cm	C	fine sand	10YR 6/8	NCM	sterile subsoil
S15W15	13	1	0-17cm	A	loamy sand mixed	10YR 2/2 mixed w/7.5YR 4/6	whiteware, coal	discarded
S15W15	13	2	17-39cm	B	loamy sand	7.5YR 3/3	NCM	
S15W15	13	3	39-90cm	C	sand	7.5YR 4/6	NCM	sterile subsoil
S15W30	14	1	0-21cm	A	sandy loam	10YR 3/2	glass	discarded
S15W30	14	2	21-46cm	B	loamy sand	7.5YR 4/4	NCM	
S15W30	14	3	46-80cm	C	sand	7.5YR 4/6	NCM	sterile subsoil

APPENDIX A

ST DATABASE

ARTHUR KILL STATION AND PARKING LOT PHASE 1B

ST Number	Map Number	Level	Depth (cm)	Horizon	Texture	Soil Color	Cultural Material	Other comments
S15W45	15	1	0-20cm	A	sandy loam	10YR 3/2	plastic, masonite tile	discarded
S15W45	15	2	20-90cm	B	sand	7.5YR 4/6	NCM	
S15W45	15	3	90-105cm	C	sand	5YR 4/6	NCM	sterile subsoil
S15W60	16	1	0-40cm	A	sandy loam	10YR 3/2	whiteware	feathered edge
S15W60	16	2	40-65cm	B	sand	7.5YR 4/6	NCM	root obstruction
S15W75	17	1	0-24cm	A	sandy loam	10YR 3/2	glass block, tin can, Styrofoam, aluminum foil	discarded
S15W75	17	2	24-70cm	B	sand	7.5YR 4/6	NCM	
S15W75	17	3	70-90cm	C	sand	7.5YR 4/6	NCM	sterile subsoil, test offset 3m to west because of Trap Rock Rd.
S15W90	18	1	0-30cm	A	sand	10YR 3/3	bottle glass, coal, shell, Styrofoam	discarded
S15W90	18	2	30-90cm	B	sand	7.5YR 4/6	NCM	
S15W90	18	3	90-120cm	C	sand	5YR 4/6	NCM	sterile subsoil
S15W105	19	1	0-30cm	A	loamy sand	10YR 3/3	bottle glass, masonite tile, brick, terracotta	discarded
S15W105	19	2	30-80cm	B	sand	7.5YR 4/6	coal, barbed wire	discarded
S15W105	19	3	80-100cm	C	gravelly sand	5YR 4/6	NCM	sterile subsoil
S15W120	20	1	0-24cm	fill	sand	10YR 3/2	bottle glass	discarded
S15W120	20	2	24-34cm	fill	clay/sand	5YR 3/4	NCM	
S15W120	20	3	34-64cm	A	sand	10YR 3/3	NCM	
S15W120	20	4	64-76cm	B	sand	7.5YR 4/6	NCM	sterile subsoil
S30W0	21	1	0-27cm	A	sandy loam	10YR 2/2	NCM	
S30W0	21	2	27-56cm	B	sandy loam	10YR 4/6	NCM	
S30W0	21	3	56-75cm	C	sand	10YR 5/8	NCM	sterile subsoil
S30W15	22	1	0-30cm	A	sandy loam	10YR 3/4	NCM	
S30W15	22	2	30-83cm	B	sand	10YR 5/8	NCM	
S30W15	22	3	83-93cm	C	sand	10YR 4/6	NCM	sterile subsoil
S30W30	23	1	0-17cm	A	sandy loam	10YR 3/4	NCM	
S30W30	23	2	17-67cm	B	sand	10YR 5/8	NCM	
S30W30	23	3	67-83cm	C	sand	10YR 4/6	NCM	sterile subsoil
S30W45	24	1	0-7cm	A	sandy loam	10YR 3/4	NCM	
S30W45	24	2	7-60cm	B	sand	10YR 4/6	NCM	sterile subsoil
S30W60	25	1	0-20cm	A	sandy loam	10YR 4/2	NCM	
S30W60	25	2	20-72cm	B	sand	10YR 5/6	NCM	sterile subsoil
S30W75	26	1	0-24cm	A	sandy loam	10YR 3/2	NCM	
S30W75	26	2	24-83cm	B	sand	10YR 5/8	NCM	sterile subsoil
S30W90	27	1	0-30cm	A	sandy loam	10YR 3/2	NCM	
S30W90	27	2	30-72cm	B	sand	10YR 5/6	NCM	
S30W90	27	3	72-103cm	C	sand	10YR 5/8	NCM	sterile subsoil
S30W105	28	1	0-20cm	A	sandy loam	10YR 3/4	NCM	
S30W105	28	2	20-60cm	B	sand	10YR 5/6	NCM	
S30W105	28	3	60-75cm	C	sand	10YR 5/8	NCM	sterile subsoil
S30W120	29	1	0-20cm	A/humic	silty loam	10YR 2/2	plastic, Styrofoam, aluminum cans, bottle glass	trash deposit, discarded

ST Number	Map Number	Level	Depth (cm)	Horizon	Texture	Soil Color	Cultural Material	Other comments
S30W120	29	2	20-41cm	B	sand	10YR 3/4	NCM	
S30W120	29	3	41-52cm	C	fine sand	10YR 6/8	NCM	sterile subsoil
S45W0	30	1	0-17cm	A	sandy loam	10YR 2/2	shell	1 fragment a transition, discarded
S45W0	30	2	17-62cm	B	sandy loam	10YR 4/6	NCM	
S45W0	30	3	62-85cm	C	sand	10YR 5/8	NCM	sterile subsoil
S45W15	31	1	0-30cm	A	sandy loam	10YR 3/3	NCM	
S45W15	31	2	30-72cm	B	sand	10YR 5/8	NCM	
S45W15	31	3	72-100cm	C	sand	7.5YR 5/6	NCM	sterile subsoil
S45W30	32	1	0-23cm	A	sandy loam	10YR 3/3	NCM	
S45W30	32	2	23-38cm	B	sand	10YR 4/6	NCM	
S45W30	32	3	38-74cm	C	fine sand	10YR 6/8	NCM	sterile subsoil
S45W45	33	1	0-20cm	A	sandy loam	10YR 3/3	NCM	
S45W45	33	2	20-61cm	B	sand	10YR 4/6	NCM	
S45W45	33	3	61-83cm	C	sand	10YR 5/8	NCM	sterile subsoil
S45W60	34	1	0-20cm	A	sandy loam	10YR 3/3	NCM	
S45W60	34	2	20-69cm	B	sand	10YR 4/6	NCM	
S45W60	34	3	69-73cm	C	fine sand	10YR 6/8	NCM	sterile subsoil
S45W75	35	1	0-27cm	A	sandy loam	10YR 4/4	NCM	
S45W75	35	2	27-79cm	B	sand	10YR 5/8	NCM	
S45W75	35	3	79-100cm	C	sand w/gravel	10YR 5/8	NCM	sterile subsoil
S45W90	36	1	0-30cm	A	sandy loam	10YR 4/3	NCM	
S45W90	36	2	30-50cm	B	fine sand	10YR 6/8	NCM	nickel, no date recorded
S45W90	36	3	50-70cm	C	fine sand	7.5YR 6/6	NCM	sterile subsoil
S45W105	37	1	0-17cm	A	sandy loam	10YR 4/3	NCM	
S45W105	37	2	17-83cm	B	sand	10YR 5/8	NCM	
S45W105	37	3	83-106cm	C	sand	10YR 4/4	NCM	sterile subsoil
S45W120	38	1	0-28cm	A	sandy loam	10YR 3/3	NCM	
S45W120	38	2	28-70cm	B	fine sand	10YR 5/8	NCM	
S45W120	38	3	70-82cm	C	fine sand	10YR 6/8	NCM	sterile subsoil
S60W0	39	1	0-20cm	A	sandy loam	10YR 4/2	NCM	
S60W0	39	2	20-90cm	B	sand	10YR 5/8	NCM	
S60W0	39	3	90-110cm	C	sand	10YR 4/6	NCM	sterile subsoil
S60W15	40	1	0-50cm	A	silty loam	10YR 4/3	NCM	
S60W15	40	2	50-84cm	B	sand	10YR 5/8	NCM	
S60W15	40	3	84-93cm	C	sand	10YR 7/6	NCM	sterile subsoil
S60W30	41	1	0-28cm	A	silty loam	10YR 2/3	NCM	
S60W30	41	2	28-54cm	B	sand	10YR 5/8	NCM	
S60W30	41	3	54-70cm	C	sand	10YR 6/8	NCM	sterile subsoil
S60W45	42	1	0-10cm	A	silty loam	10YR 2/3	NCM	
S60W45	42	2	10-33cm	B	sand	10YR 5/8	NCM	
S60W45	42	3	33-54cm	C	sand	10YR 6/8	NCM	sterile subsoil
S60W60	43	1	0-16cm	A	silty loam	10YR 2/2	NCM	
S60W60	43	2	16-28cm	B	sand	10YR 5/8	NCM	
S60W60	43	3	28-55cm	C	sand	10YR 6/8	NCM	sterile subsoil
S60W75	44	1	0-14cm	A	sandy loam	10YR 3/2	NCM	

ST Number	Map Number	Level	Depth (cm)	Horizon	Texture	Soil Color	Cultural Material	Other comments
S60W75	44	2	14-30cm	B	sand	10YR 5/4	NCM	
S60W75	44	3	30-87cm	C	sand	10YR 7/6	NCM	sterile subsoil
S60W90	45	1	0-22cm	A	sandy loam	10YR 4/2	shell	
S60W90	45	2	22-134cm	B	sand	10YR 5/8	NCM	sterile subsoil
S60W105	46	1	0-15cm	A	sandy loam	10YR 4/2	NCM	
S60W105	46	2	15-55cm	B	sand	10YR 5/8	NCM	
S60W105	46	3	55-77cm	C	sand	10YR 4/4	NCM	sterile subsoil
S60W120	47	1	0-22cm	A	sandy loam	10YR 3/2	NCM	
S60W120	47	2	22-46cm	B	sand	10YR 5/4	NCM	
S60W120	47	3	46-65cm	C	fine sand	10YR 7/6	NCM	sterile subsoil
S75W0	48	1	0-20cm	A	sandy loam	10YR 3/4	modern debris	discarded
S75W0	48	2	20-62cm	B	sand	10YR 4/6	NCM	
S75W0	48	3	62-75cm	C	sand	7.5YR 4/4	NCM	sterile subsoil
S75W15	49	1	0-20cm	A	sandy loam	10YR 2/2	window glass, "sweet tart" wrapper	discarded
S75W15	49	2	20-60cm	B	sand	10YR 4/3	NCM	
S75W15	49	3	60-85cm	C	sand	10YR 4/6	NCM	sterile subsoil
S75W30	50	1	0-25cm	A	sandy loam	10YR 4/2	NCM	
S75W30	50	2	25-72cm	B	sand	7.5YR 4/4	NCM	
S75W30	50	3	72-91cm	C	sand	7.5YR 4/6	NCM	sterile subsoil
S75W45	51	1	0-30cm	A	sandy loam	10YR 2/2	whiteware	discarded
S75W45	51	2	30-50cm	B	loamy sand	7.5YR 4/3	NCM	
S75W45	51	3	50-75cm	C	sand	7.5YR 4/6	NCM	sterile subsoil
S75W60	52	1	0-27cm	A	sandy loam	10YR 3/2	whiteware	discarded
S75W60	52	2	27-34cm	fill	sandy loam	10YR 2/2	NCM	
S75W60	52	3	34-72cm	B	sand	7.5YR 4/4	NCM	
S75W60	52	4	72-90cm	C	sand	7.5YR 4/6	NCM	sterile subsoil
S75W75	53		0-30cm	A	loamy sand	10YR 3/3	shell, bottle glass, plastic bottle cap, linoleum	discarded
S75W75	53	2	30-80cm	B	sand	7.5YR 4/6	NCM	sterile subsoil
S75W90	54	1	0-20cm	A	sand	10YR 3/4	NCM	
S75W90	54	2	20-69cm	B	sand w/gravel	7.5YR 4/4	NCM	
S75W90	54	3	69-83cm	C	sand	10YR 4/4	NCM	sterile subsoil
S75W105	55	1	0-3cm	A	sandy loam	10YR 4/2	NCM	
S75W105	55	2	3-55cm	B	sand	7.5YR 4/4	NCM	
S75W105	55	3	55-73cm	C	sand	10YR 4/4	NCM	sterile subsoil
S75W120	56	1	0-18cm	A	sandy loam	10YR 3/4	glass, charcoal	
S75W120	56	2	18-60cm	B	sand	10YR 4/6	NCM	
S75W120	56	3	60-82cm	C	sand	10YR 6/4	NCM	sterile subsoil
S90W100	57	1	0-18cm	A	sandy loam	10YR 3/2	modern glass	discarded
S90W100	57	2	18-42cm	A2	ash		partial gun barrel, nail	
S90W100	57	3	42-61cm	A3	silty sand	10YR 4/3	glass	pressed
S90W100	57	4	61-69cm	B/C	sand	10YR 5/4	NCM	rock obstruction
S90W115	58	1	0-21cm	A	sandy loam	10YR 3/2	modern trash	sample taken
S90W115	58	2	21-51cm	B	sand	7.5YR 5/6	NCM	root obstruction
Station J1		1	0-18cm	A1	sand	10YR 4/2	glass, ceramic-modern	Budweiser bottle

ST Number	Map Number	Level	Depth (cm)	Horizon	Texture	Soil Color	Cultural Material	Other comments
Station J1		2	18-58cm	A2	gravelly sand w/coal	10YR 2/1	glass	
Station J1		3	58-84cm	C	sand	10YR 4/6	NCM	sterile subsoil
Station J2		1	0-31cm	fill	compact	10YR 4/3	plastic, glass	
Station J2		2	31-51 cm	C	sandy clay	7.5YR 5/4-4/3	NCM	rock obstruction
Station J3		1	0-19cm	A	course sand	10YR 2/1	modern debris	discarded
Station J3		2	19-26cm	A2	ash & course sand	10YR 6/2	brick	whole
Station J3		3	26-74cm	A3	silty fine sand	10YR 3/1	brick, iron	discarded
Station J3		4	74-86cm	C	fine sand	10YR 5/4	NCM	sterile subsoil

Area	Unit/ Map #	Grid #	Qty	Level	Functional Group	Class	Material	Type	Object	Part	Description
Lot 6	1	N15W90	1	1	architectural	asphalt			shingle	fragment	noted
Lot 6	1	N15W90	1	1	food related	glass	colorless	machine made	bottle	fragment	noted
Lot 6	2	N15W120	1	1	architectural	glass	colorless	machine made	window	fragment	glass debris
Lot 6	2	N15W120	1	2	architectural	glass	colorless	machine made	window	fragment	glass debris
Lot 6	2	N15W120	1	2	food related	organic	shell		clam	fragment	
Lot 6	3	S0E0	1	1	food related	glass	amber	machine made	bottle	complete	Budweiser, noted
Lot 6	3	S0E0	1	1	unaffiliated	plastic			unknown	fragment	noted
Lot 6	4	S0W15	1	1	architectural	clay			brick	fragment	noted
Lot 6	11	S0W120	1	3	architectural	asphalt			shingle	fragment	noted
Lot 6	13	S15W15	1	1	food related	ceramic	earthenware	whiteware	vessel	fragment	noted
Lot 6	13	S15W15	1	1	unaffiliated	organic			anthracite	fragment	noted
Lot 6	14	S15W30	1	1	food related	glass	colorless	machine made	bottle	fragment	noted
Lot 6	15	S15W45	1	1	architectural	masonite			tile	fragment	noted
Lot 6	15	S15W45	1	1	unaffiliated	plastic			unknown	fragment	noted
Lot 6	16	S15W60	1	1	food related	ceramic	earthenware	whiteware	vessel	fragment	blue flow
Lot 6	17	S15W75	1	1	architectural	glass	colorless	machine made	window	fragment	glass block fragment
Lot 6	17	S15W75	1	1	food related	metal	aluminum	machine made	can	fragment	noted
Lot 6	17	S15W75	1	1	food related	metal	aluminum	machine made	foil	fragment	noted
Lot 6	17	S15W75	1	1	unaffiliated	styrofoam			unknown	fragment	noted
Lot 6	18	S15W90	1	1	food related	glass	colorless	machine made	bottle	fragment	noted
Lot 6	18	S15W90	1	1	food related	organic	shell		clam	fragment	noted
Lot 6	18	S15W90	1	1	unaffiliated	organic			anthracite	fragment	noted
Lot 6	18	S15W90	1	1	unaffiliated	styrofoam			unknown	fragment	noted
Lot 6	19	S15W105	1	1	architectural	masonite			tile	fragment	noted
Lot 6	19	S15W105	1	1	architectural	clay			brick	fragment	noted
Lot 6	19	S15W105	1	1	food related	ceramic	earthenware	whiteware	vessel	fragment	noted
Lot 6	19	S15W105	1	1	food related	glass	colorless	machine made	bottle	fragment	noted
Lot 6	19	S15W105	1	1	labor	metal	iron		barbed wire	fragment	noted
Lot 6	19	S15W105	1	1	unaffiliated	organic			anthracite	fragment	noted
Lot 6	19	S15W105	1	1	unaffiliated	ceramic	earthenware	redware	flower pot	fragment	noted
Lot 6	20	S15W120	1	1	food related	glass	colorless	machine made	bottle	fragment	noted
Lot 6	36	S45W90	1	2	personal	metal	nickel		nickel	complete	noted, no date
Lot 6	45	S60W90	15	1	food remains	organic	shell		clam	fragment	
Lot 6	48	S75W0	1	1	unaffiliated	debris			unknown	fragment	noted
Lot 6	49	S75W15	1	1	architectural	glass	colorless	machine made	window	fragment	noted

Area	Unit/ Map #	Grid #	Qty	Level	Functional Group	Class	Material	Type	Object	Part	Description
Lot 6	49	S75W15	1	1	food related	celaphane			wrapper	fragment	"sweet tart" wrapper, noted
Lot 6	52	S75W60	1	1	food related	ceramic	earthenware	whiteware	vessel	fragment	noted
Lot 6	53	S75W75	1	1	architectural	linolium			tile	fragment	noted
Lot 6	53	S75W75	1	1	food related	glass	colorless	machine made	bottle	fragment	noted
Lot 6	53	S75W75	1	1	food related	plastic			cap	complete	bottle cap, noted
Lot 6	53	S75W75	1	1	food remains	organic	shell		clam	fragment	noted
Lot 6	56	S75W120	1	1	food related	glass	colorless	machine made	bottle	fragment	noted
Lot 6	56	S75W120	1	1	unaffiliated	organic			anthracite	fragment	noted
Lot 6	57	S90W100	1	1	architectural	glass	colorless	machine made		fragment	noted
Lot 6	57	S90W100	1	2	architectural	metal	iron	machine cut	nail	fragment	
Lot 6	57	S90W100	1	2	labor	metal	iron		partial gun barrel	fragment	possibly a .22 cal revolver
Lot 6	57	S90W100	1	2	unaffiliated	metal	iron		unknown	fragment	
Lot 6	57	S90W100	6	3	food related	glass	colorless	machine made	bottle	fragment	
Lot 6	57	S90W100	3	3	food related	glass	colorless	machine made	vessel	fragment	pressed glass, diamond/criss/cro ss pattern
Lot 6	57	S90W100	1	3	labor	metal	iron		cap	complete	possible battery cap
Lot 6	58	S90W115	1	1	food related	glass	tinted	machine made	bottle	fragment	
Lot 6	58	S90W115	3	1	food related	glass	colorless	machine made	bottle	fragment	
Lot 6	58	S90W115	1	1	food related	glass	amber	machine made	bottle	fragment	
Lot 6	58	S90W115	3	1	food remains	organic	shell		clam	fragment	
Lot 86		J1	1	1	architectural	glass	colorless	machine made	window	fragment	noted
Lot 86		J1	1	1	food related	ceramic	earthenware	whiteware	vessel	fragment	noted
Lot 86		J1	1	1	food related	glass	amber	machine made	bottle	complete	Budweiser, noted
Lot 86		J2	1	1	food related	glass	colorless	machine made	bottle	fragment	noted
Lot 86		J2	1	1	food related	plastic			unknown	fragment	noted
Lot 86		J3	2	2	architectural	metal	iron	machine cut	nail	fragment	
Lot 86		J3	1	2	architectural	metal	iron	wire	nail	complete	

Area	Unit/ Map #	Grid #	Qty	Level	Functional Group	Class	Material	Type	Object	Part	Description
Lot 86		J3	15	2	food related	ceramic	earthenware	whiteware	plate	fragment	pink, green, and yellow floral design, maker's mark - 2 horses on either side of "P over A" "warranted"
Lot 86		J3	3	2	food related	glass	tinted	machine made	bottle	fragment	on the side of the bottle "ABC in a shield with a crown - Rubsam & Horrmann Brewing Company Staten Island, NY - 12 1/2 oz. ca.1910
Lot 86		J3	1	2	food related	glass	amber	machine made	bottle	fragment	
Lot 86		J3	1	2	food related	glass	colorless	machine made	bottle	fragment	
Lot 86		J3	1	2	food related	glass	tinted	machine made	bottle	fragment	
Lot 86		J3	3	2	food related	glass	colorless	machine made	bottle	fragment	string rim
Lot 86		J3	1	2	food related	ceramic	porcelain		vessel	fragment	
Lot 86		J3	15	2	food remains	organic	bone		bone	fragment	possible mammal
Lot 86		J3	1	2	personal	ceramic	porcelain		button	complete	4 hole
Lot 86		J3	6	2	personal	organic	leather		shoe leather	fragment	
Lot 86		J3	1	2	unaffiliated	slag			furnace	fragment	
Lot 86		J3	1	2	unaffiliated	styrofoam			unknown	fragment	
Lot 86		J3	2	2	unaffiliated	plastic			unknown	fragment	gray